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Hello Friends,

It certainly is an exciting time to be part of the amateur radio community. Our new catalog highlights the latest products and innovations that continue to make this the world's greatest hobby. We hope you enjoy looking through its pages and discovering new ways to enhance your time on the air.

We've devoted the catalog's cover to an activity that has taken amateur radio by storm: Parks on the Air®. What an amazing way to make QSOs in the beauty of nature while showing observers the magic of amateur radio!

The photos on the front feature operators from the DX Engineering team. Our family of active hams have a combined 1,000-plus years of amateur radio experience covering the full range of pursuits—from contesting to EmComm, DXing to portable activations. This is your assurance that when you contact us, you'll benefit from the same friendly and informed assistance that our operators once received from their own Elmers. It's DX Engineering's way of giving back to a hobby that has given us so much in our lives.

As you leaf through the catalog, please note products with the "Go Portable" logo. These are just a few of the items at DX Engineering that can add to the fun of conducting your own mini-DXpedition. Ready to handle a pileup as the sought-after station? You've come to the right place.

Beyond the portable ops gear at DX Engineering, you'll find more than 30,000 amateur radio products including two categories that deserve special mention:

- We are especially pleased to carry more top-flight amplifiers from leading manufacturers than anyone. Our experts will help you find the model that suits your needs.
- The DX Engineering brand of easy-to-order coaxial cable is considered the best-in-class by operators the world over, from DXpeditioners to enthusiasts like you who demand performance and long-lasting reliability.

On behalf of our entire team, thank you for making DX Engineering part of your amateur radio journey. Whether in a park, atop a summit, on the shores of a remote island, or at your home station, we hope to hear you on the air soon!



Tim Duffy, K3LR

73,
Tim Duffy
K3LR

Tim Duffy, K3LR
Chief Executive Officer

1 Corinthians 15:58 *English Standard Version (ESV)*
Therefore, my beloved brothers, be steadfast, immovable, always abounding in the work of the Lord, knowing that in the Lord your labor is not in vain.

"Go Portable" with DX Engineering!

There are a multitude of reasons why more and more hams are packing up their radios, antennas, and coax and heading for the nearest park or summit. First, it's hard to beat an afternoon of operating next to a crystal stream or overlooking a valley bathed in flaming autumn hues. Add to that the thrill of handling a pileup and filling your logbook with QSOs as a coveted station—within driving distance of your own QTH. Combine this with a picnic lunch, fresh air, time spent with loved ones, achievable awards to display in your shack, and a moderate price tag, and it's obvious why this passion for portable ops is here to stay.

You'll find plenty of equipment from leading manufacturers (transceivers, hi-visibility coax, antennas, telescopic masts, wire antenna launchers, drive-on car stands, and more) perfect for outdoor activations, including gear designed and manufactured by DX Engineering. We've tagged some items with a "Go Portable" logo to make them easy to spot in the catalog. You'll discover many more at DXEngineering.com.

DX Engineering—Your Portable Operating Headquarters

The active operators at DX Engineering have embraced the Go Portable spirit with gusto. When you call us for service, you'll be talking to hams who can help you get the gear you need along with advice from those who have logged their share of contacts from lighthouses, parks, islands, beaches, and summits.



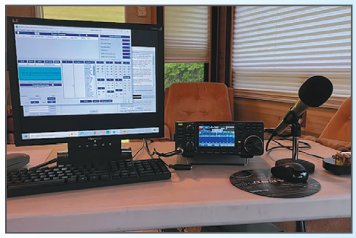
Michael, KI8R



John, KJ3X



Bobby, W6IWN



Dave, N8NB



Gene, AC8RH



Troy, AC8OW



Jeff, KB8ZWT



Scott, N3RA



Tom, KB8UUZ



Melanie, K8KSU



Mark, W8BBQ



Scotty, KG9Z

On the Cover

We asked the DX Engineering team to "show us their portable activations," and they responded in a big way.

Top Row: Michael, KI8R; Gene, AC8RH; Troy, AC8OW; Tom, KB8UUZ

Second Row: Bobby, W6IWN (both)

Third Row: Gene, AC8RH; Troy, AC8OW

Bottom Row: Rod, K8RR; Guy, K5TGS

Middle: Michael, KI8R (top); Bobby, W6IWN (bottom)



DX ENGINEERING®

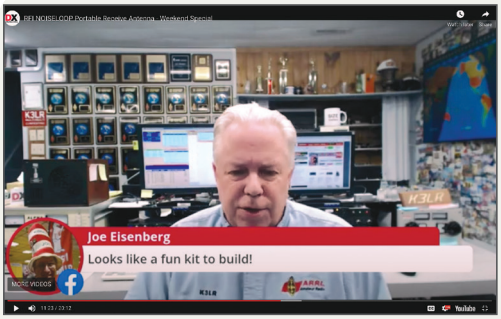
Expert Help is Just a Click Away!

Have questions about ordering and shipping? Looking for technical advice on your purchase? Get fast answers at the new DX Engineering Online Help Center. Just click the Help Center link at DXEngineering.com and the information you need is right at your fingertips. It's another way DX Engineering is making it easier than ever to enjoy the world's greatest hobby—Ham Radio!





- Billing & payment, product, order, shipping, returns, sales tax, and technical FAQs all in one place
- Searchable library of technical articles
- Optimized for any device—mobile, tablet or desktop
- Easy navigation and powerful keyword search
- New ways to contact DX Engineering SMS Texting, Facebook Messenger
- New content added regularly



Free Zoom Webinars from DX Engineering: Make Your Next Amateur Radio Club Meeting a Huge Success

Looking for a sure-fire way to provide your amateur radio club with an informational and entertaining presentation for your next gathering? Members of the DX Engineering team, including CEO Tim Duffy, K3LR, are available to meet with your club through Zoom to deliver free educational webinars on a number of amateur radio topics, from contesting tips to station upgrades and maintenance. Club members will receive information they can use from experienced operators, plus answers to questions about getting the most out of their time on the air. Scheduling a presentation is easy. Just send an email to K8MNJ@DXEngineering.com.





The DX Engineering Showroom: Worth the Trip!



Visit the DX Engineering Showroom in the Summit Racing Retail Super Store near Akron, Ohio, to get on the air using the latest rigs via three HF beam antennas on our 80-foot tower; get up close to the hottest amateur radio gear; check out open box and scratch and dent items; talk with longtime hams who can answer your questions; and pick up your order. Curbside order pickup is also available. Showroom is open 9 am to 5 pm ET Mon.-Sat. Bring your friends and see you there!

WARNING

Proposition 65 Compliance Statement:
It is the responsibility of DX Engineering to warn its customers and employees that some products sold in this catalog contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Go to DXEngineering.com/Go/FAQs-DXE-Prop65 for more information.

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DX Engineering carries equipment from more than 180 top manufacturers!

New Gear from the Team at DX Engineering

DX Engineering is constantly looking for ways to make your ham radio experience more effective and enjoyable. From this "build a better mousetrap" spirit comes practical and innovative offerings from our team, including the Off Center Fed Dipole Antenna Kits for 80-10M and 40-10M (pg. 53); Low Power Portable Dipole and Winder Kits; QRP Band Pass Filters; QRP Balun, UNUN, and High Pass Filter; VHF/UHF Portable Antenna Mount; and DualDuck Portable HT/Mobile UHF/VHF Antenna Mount (pg. 55); COMTEK Truck Bed Mobile Antenna Mount Plate (pg. 66); A/B Station Selector Interlocked Coaxial Relay (pg. 72); 3" UHF Nickel Double Female Bulkhead Connector Sets (pg. 130); and Crimp-Type Insulated Wire Ferrules (pg. 134).

DX ENGINEERING New!

DXE-POTA-1



GO Portable

Portable POTA Kits

Whether you're planning on activating parks, summits, islands, or any outdoor venue, these packages, assembled by the experienced operators at DX Engineering, include high-quality gear to get you on the air no matter where you are. Contact a DX Engineering rep if you'd like us to customize a package to your precise needs. Choose from three kits featuring either the Yaesu FT-891 (contents below), Icom IC-705, or Icom IC-7300.

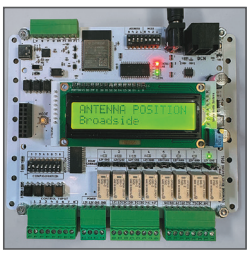
POTA Kit 1, Yaesu FT-891

Yaesu FT-891 Mobile Transceiver; Chelegance JPC-12 Portable HF Vertical Antenna; RigExpert STICK-230 Antenna Analyzer; mAT-TUNER 1.8-54 MHz Antenna Tuner; Bioenno Power 12VDC/20 Ah LiFePO4 Battery, Charger, 40W Foldable Solar Panel, and Solar Charge Controller; REZ Backpack; DX Engineering RG-8X PL-259 1.5' Coaxial Cable Assembly; DX Engineering RG-8X High-Visibility Orange Coaxial Cable, 50'; West Mountain Radio DC Power Cable, 6'.

Enter "DXE POTA Kit" at DXEngineering.com.

New!

SIERRA RADIO SYSTEMS



Universal Relay Control Module

The Universal Relay Control Module can be used in conjunction with other Sierra Radio Systems modules (Raspberry Pi, GPIO, RF Wattmeter, et. al., see pg. 73) to create a full remote system. It features eight dry contact SPST relays that can be controlled over the DCN (Device Control Network) or locally with external pushbuttons. The module also has its own 12V power supply; DCN; LCD that provides module status while operating; personality selection, module address, and mode selection DIP switches; USB-C console port; and local control button inputs.

SIR-361 Universal Relay Control Module.....**$250.00**

SSB Electronic

SSB Passion in high frequency

DX Engineering is excited to sell a range of high-quality amateur radio gear from SSB Electronic, a German company that shares your "passion in high frequency," as stated right in their logo. Founded in 1976, the company carries a nice selection of station-enhancing products developed in SSB's high-frequency laboratory and extensively tested by their quality assurance team. Products include low-noise preamplifiers (with or without RX/TX switch); the DCW 2004 B Sequencer (6M/2M/70cm) for easy remote coupling of SSB Electronic preamps; antenna switches; remote feed diplexer for providing power to amplifiers and converters via coaxial cable; DC Switch for remote feeding of WLAN amplifiers via coax; and more.
Enter "SSB Electronic" at DXEngineering.com for availability of the full lineup and many more details.

In-Stock Parts Typically Ship The Same Day.

New!



IC-V3500B VHF/FM Mobile Transceiver with Blackout Display

ICOM

This rugged and easy-to-operate 2M rig now comes in a version with high-contrast blackout display. Enjoy this model's excellent visibility and clean viewing angle that make it especially well-suited for mobile and in-vehicle installations. Plus, get all the features of the original model (see pg. 13), including the ability to transmit from 144-148 MHz at a full 65W of stable output power and receive from 136-174 MHz. Other features include instant mute and loud, crisp speaker output with Audio Volume Boost feature, and emergency safety functions. Includes hand mic and DC power cable.

ICO-IC-V3500B VHF/FM Mobile Transceiver w/Blackout Display.....**CALL/WEB**



New!

JKEYER-CPO16 CW Keyer & Practice Oscillator

CHELEGANCE JNCRadio

This desktop CW keyer and Morse code practice oscillator combines reliable on-air keying with high-quality off-air practice in a single compact unit. Fully compatible with WinKey protocol, it seamlessly integrates with contest and logging software while also operating standalone without a computer. The JKEYER-CPO16 features comfortable operation; a clean DDS sine-wave sidetone with no harsh clicks or pops; opto-isolated CW and PTT outputs for safe, noise-resistant keying for radios and amplifiers; adjustable timing for reliable transmit control; and built-in speaker and headphone support. The device supports both paddles and straight keys, offers four operating modes (Iambic A, Iambic B, Ultimatic, and Bug), and has a speed range of 10-54 WPM.

NCE-CH0022615-M CW Keyer & Practice Oscillator.....**$199.99**

Momobeam Antennas

momo BEAM high-performance durable ANTENNAS

DX Engineering is pleased to now carry high-performance, durable monoband and multiband Yagis (pg. 62), 80-10M and 40-10M end-fed wire antennas (pg. 55), and RF choke baluns (pg. 62) from Momobeam, an Italian manufacturer whose products can be found improving operations at amateur radio stations around the globe. Founded in 2011, Momobeam produces a wide-ranging lineup of HF and 50 MHz antennas in many innovative designs, coverage options, and footprints, from its reliable single-band models to its five-band PENTA10. Whatever you select, you can be confident you've chosen a company widely recognized for their solid construction, unique and compact designs, precision element spacing, simple assembly, and proven results, whether contesting or breaking through DX pileups. The catalog features many of Momobeam's popular models.
Enter "Momobeam" at DXEngineering.com for more details and additional models.

DX ENGINEERING New!



DXE-GMR2-FAMRDY1

Emergency Readiness Packages with GMRS/FRS Radios

These kits are designed to keep you and your loved ones better prepared to handle communication and other needs in an emergency. Packages feature Rugged Radios GMR2 PLUS GMRS and FRS radio(s), Rugged Radios Mobile Radio Kits, plus gear from Eton and other providers. Choose from seven packages for individuals, partners, families, or neighborhoods. Contents vary per package. We've listed what's included in the Family Readiness Package 1 to give you an idea of what you receive.

Family Readiness Package 1 (DXE-GMR2-FAMRDY1)

4 Rugged Radios HT GMRS radios, 4 long-range dual-band antennas, 4 battery packs and eliminators; Eton FRX2 AM-FM-NOAA Weather Radio; NANUK 905 Equipment Case

Package pricing ranges from $264.95. Enter "DXE Emergency Readiness" at DXEngineering.com for more details.



New!

ICOM

ID-5200 144/430 MHz Mobile Transceiver Reservation

Reserve your place in line to purchase this exciting new Icom radio from DX Engineering. This versatile dual-band transceiver supports FM and DV (digital voice) modes, with broad reception across VHF, UHF, and Airband. Key features include a color touchscreen display for intuitive control; simultaneous dual reception of FM-FM, FM-DV, and DV-DV signals; and built-in Wi-Fi and Bluetooth for seamless device integration. An internal gateway enables terminal and access mode points, while a DV repeater monitor function keeps you connected to your digital network.

When this new transceiver becomes available you will be entitled to a first right of refusal on a first come, first served basis. Once this transceiver is offered for sale by Icom, with officially announced pricing, you will be contacted by DX Engineering to complete your order. Should you choose not to complete your ID-5200 order, your non-refundable deposit will be converted to a Gift Card that you can use toward any product offered by DX Engineering. Your reservation fee will be applied to the total ID-5200 purchase price at sale completion. When the transceiver becomes available, orders will be shipped in the order that reservations were received.

RSV-ID-5200 Reservation for ID-5200.....**$35.00**

⚠ **WARNING:** For Proposition 65 information, see p. 3

Getting Started Packages and Go Boxes

Building your first Ham Radio station can be overwhelming. In the Elmer spirit, we've created Getting Started Packages that illustrate what it takes to get on the air for three operating styles: base, mobile and handheld. The packages are built around popular radios, good for beginners and experts alike. Of course, these are just suggestions and each part is available separately, so you can build your own custom combo using whatever component you want. Type "Getting Started" into the search box at DXEngineering.com to see details.

Getting Started Mobile Radio Packages

Based around your choice of a 2 meter mobile transceiver, these combos will show you what typically goes into a mobile station. There are three mounting options for each radio combo: magnet, trunk/hatch or luggage rack. Each combo also includes a 2M or 2M/70cm mobile antenna and the right coaxial cable (with installed connectors) to complete a hassle-free installation.

Package Part Number	Radio	Antenna	Mount	Price
DXE-MBLICO3500LG	Icom ICO-V3500	52.4" Monoband	Luggage Rack	**$363.84***
DXE-MBLICO3500MG	Icom ICO-V3500	40.2" Dual-Band	Magnet	**$343.93***
DXE-MBLICO3500TR	Icom ICO-V3500	52.4" Monoband	Trunk/Hatch	**$344.38***

***See DXEngineering.com for special promotional pricing.**

Getting Started HT Radio Packages

For many newly licensed hams, the quickest way to start enjoying the hobby is with a handheld transceiver, commonly referred to as an HT or "Handie-Talkie." We've made it easy to get on the air with three new packages that take the guesswork out of making your first contacts. Packages include a top-quality radio from Alinco, Icom, Kenwood or Yaesu; an upgraded Diamond HT Antenna; radio-specific programming software and cable from RT Systems; and speaker microphone or headset for convenient operating and clear audio. Enter "Getting Started" at DXEngineering.com for full details.



DXE-HTICO-ICV86



DXE-HTALO-VX50T



DXE-HTYSU-FT65R

DXE-HTALO-VX50T Alinco DJ-VX50T 2M/70cm HT, Speaker Mic, Software/Cable, Dual-Band Antenna **$236.92**
DXE-HTICO-ICV86 Icom ICO-IC-V86 2M HT, Speaker Mic, Software/Cable, Monoband Antenna.....**$273.92**
DXE-HTYSU-FT65R Yaesu YSU-FT-65R 2M/70cm HT, Speaker Mic, Software/Cable, Dual-Band Antenna....**$229.92**

Icom and Yaesu High-End Getting Started Packages

Give yourself an operating advantage right out of the gate by choosing packages featuring high-end analog/digital rigs—either the Icom ID-52A VHF/UHF Multi-Function D-STAR HT or the Yaesu FT5DR VHF/UHF C4FM/FM HT. In addition to these full-feature transceivers, packages include upgraded speaker mic, RT Systems cable/programming software combo, chargers, battery pack and more.



DXE-ID52ASTART1 Icom ID-52A Getting Started Package.....**$1,172.80**
DXE-FT5DRSTART1 Yaesu FT5DR Getting Started Package **$711.86**

Getting Started Packages for Base Operations with a Mobile Transceiver

DX Engineering offers two Getting Started Mobile Transceiver Packages that are completely equipped for base operations! Each package has a quality all-mode mobile/base rig (choose from Icom or Yaesu) with handheld mic, desktop switching power supply, HF automatic antenna tuner with radio interface cable, HF end-fed half-wave dipole antenna, and cable assemblies. The Icom package also comes with a 2M/440MHz VHF-UHF dual-band antenna.



The DXE-FT891START-1 package includes:

- Yaesu FT-891 HF/50MHz All Mode Mobile Transceiver with Handheld Speaker Mic
- LDG Z-100PLUS Automatic Antenna Tuner and Interface Cable
- Samlex SEC-1235M Desktop Switching Power Supply
- 50' of RG-8X Coaxial Cable with PL-259 Connectors
- 3' of RG-8X Coaxial Cable with PL-259 Connectors
- Par EndFedz® End-Fed Half Wave Antenna (EF-8010-JRKW), 80/40/20/15/10, 1 kW power

DXE-FT891START1 Yaesu FT-891 Mobile Radio Getting Started Package ..... **CALL/WEB**



The DXE-IC7100START-1 package includes:

- Icom IC-7100 HF VHF/UHF All Mode Base/Mobile Transceiver with Handheld Speaker Mic
- LDG Z-100PLUS Automatic Antenna Tuner and Interface Cable
- Samlex SEC-1235M Desktop Switching Power Supply
- 50' of RG-8X Coaxial Cable with PL-259 Connectors
- 3' of RG-8X Coaxial Cable with PL-259 Connectors
- 50' of 400MAX Coaxial Cable with PL-259 Connectors
- Par EndFedz® End-Fed Half Wave Antenna (EF-8010-JRKW), 80/40/20/15/10, 1 kW power
- Diamond X30A Dual-Band Base/Repeater Antenna

DXE-IC7100START1 Icom IC-7100 Mobile Radio Getting Started Package..... **CALL/WEB**

To take advantage of our Beat-a-Price Guarantee, please Contact Us!

More Getting Started Packages Online.


DXE-GOBOX-1




DXE-GOBOX-2

HF/UHF/VHF Go Box Kits

DX Engineering makes it easy to put together a Go Box for portable operations with these two kits featuring top-grade transceivers from either Icom or Yaesu, plus quality equipment case, rack shelving, and accessories.

Icom Go Box Kit: IC-7300 HF/50 and ID-5100A-D VHF/UHF Mobile

You also receive a Gator Cases Pro Series Equipment Rack Case (19" D x 10" H), two rack shelves, mobile mounting brackets, mobile suction cup mount, mAT-TUNER automatic antenna tuner (1.8-54 MHz), two SP-35 mobile speakers, and West Mountain Radio RIGrunner DC outlet panel.

DXE-GOBOX-1 Icom Go Box Kit **$2,755.72**

Yaesu Go Box Kit: FT-710 AESS HF/50 Base/Portable and FTM-510DRASP C4/FM 144/430 MHz Digital Mobile

You also receive a Gator Cases Pro Series Equipment Rack Case (19" D x 13.5" H), three rack shelves, mobile mounting bracket, mAT-TUNER automatic antenna tuner (1.8-54 MHz), SP-40 desktop speaker, West Mountain Radio RIGrunner DC outlet panel, West Mountain Radio Epic PWRgate battery backup system, Yaesu FP-1023A switching power supply, and Bioenno Power LiFePO4 battery (12VDC, 20 Ah, 40A, 480W max).

Enter "DXE GOBOX" at DXEngineering.com for more details about both kits.

DXE-GOBOX-2 Yaesu Go Box Kit .....**CALL/WEB**

⚠ **WARNING:** For Proposition 65 information, see p. 3

IC-7610-32 HF/50 MHz Transceiver



Icom's IC-7610-32 (with updated internal components) gives your station the edge with all-mode RF direct sampling. Combining a dual preselector and band pass filtering with the power of a Software Defined Radio (SDR), advanced Reciprocal Mixing Dynamic Range (RMDR) over 100 dB is achieved for both independent receivers. The IC-7610-32 can pick out the faintest signals in the presence of stronger, adjacent signals, delivering the ultimate advantage for DXers and contesters—with rich rewards for casual operators. It covers 160 through 6M with 100 watts, featuring a remarkable seven-inch high-resolution color touchscreen, intuitive controls, real-time dual spectrum scope, waterfall and audio scope displays, Quick Split and Dual Watch, remote control LAN port, Receive IN and OUT, clean transmit, general coverage 30 kHz-60 MHz, and more.

Other features include:

- DIGI-SEL Preselector, Digital IF Filters, and Twin Band Pass Tuning
- Superior audio with a large internally enclosed speaker
- Custom VCXO driven master clock for ultra-low phase noise
- External monitor DVI-D port, I/Q signal output port, and 10 MHz Reference input
- Dual port USB: internal audio digital mode and rig control interface
- Optional SD card slot for saving user profiles, memory keyer, and voice files
- Simplified remote operation with optional RS-BA1 Remote Control Software
- Independent second receiver tuning with optional RC-28 USB Encoder
- Built-in automatic antenna tuner
- Long list of CW, receiver, transmitter, and operational benefits

ICO-IC-7610-32	IC-7610-32 HF/50 MHz Transceiver	**CALL/WEB**
ICO-SP-41	IC-7610-32 Companion External Speaker	**$299.99**
ICO-MB-121	Replacement Carrying Handle Kit for IC-7610-32	**$34.99**
XYZ-32GB-SD	32 GB Ultra High Speed Memory Card	**$299.99**

IC-7300 HF/50 MHz Transceiver



Icom's first RF Direct Sampling System entry-level SDR, the IC-7300 changed the HF transceiver landscape in 2015 with a highly affordable, high-performance base/portable HF radio. In addition to the classic SSB, CW, RTTY, AM and FM modes, updated firmware brings improved functionality including a simplified FT8 mode preset. Featuring excellent receiving characteristics, this 160-6 meter model includes a touchscreen display, real-time spectrum scope and high-resolution waterfall, touch-tuning on the spectrum scope, an intuitive MULTI-function knob, dual port USB control and audio, and much more. Building all this into a rugged and compact chassis was a landmark achievement—and the IC-7300 is still an easy-to-use choice for your portable or EMCOMM station.

This versatile and budget-friendly radio delivers excellent performance, easy filter adjustments, and remarkable audio clarity. The IC-7300 provides SDR performance, the controls of a classic transceiver, and the modern simplicity of a touchscreen spectrum scope display.

- Voice memory & memory keyer
- SD card slot
- 100W (25W AM)
- Multi-function meter
- Screen capture
- Digital noise reduction

Find the full details on the IC-7300 at DXEngineering.com.

ICO-IC-7300	HF/50 MHz Transceiver	**CALL/WEB**
ICO-MB-118	Mobile Mounting Bracket	**$53.99**
ICO-MB-123	Transceiver Carry Handle	**$40.99**
ICO-SP-38	Base Station Speaker	**$209.99**
XYZ-32GB-SD	32 GB Ultra High Speed Memory Card	**$20.99**

IC-7300MK2 HF/50 MHz Base Transceiver

New!



The IC-7300MK2 HF/50 MHz Transceiver takes all of the capabilities of the beloved IC-7300 and introduces a host of advanced features and refinements that elevate the performance and usability of the original model. Here's what's new:

- An HDMI port that enables connection to an external monitor for displaying frequency, waterfall, scope, and menus, with the option to route audio to the monitor's speakers. Additionally, the USB Type-C port supports dual virtual COM ports and audio I/O, enabling simultaneous use of digital modes and logging software with a single USB-C cable.
- Improved RMDR (Reciprocal Mixing Dynamic Range) and phase noise performance, delivering 105 dB RMDR (typical at 2 kHz offset) and –139 dBd/Hz transmit phase noise at 1 kHz offset. This ensures cleaner reception and transmission in crowded band conditions.
- RX antenna IN/OUT connectors (SMA), which enable you to take advantage of antenna characteristics for optimized reception, such as avoiding interference and QRN. External bandpass filters and preamps can also be connected to these connectors.
- Simplified Remote Control via RS-BA1 software enables remote operation, whether from a remote location within your home QTH or a remote location around the world. With the addition of an RJ-45 Ethernet jack, a base station computer is not required. You can remotely turn the transceiver ON or OFF from anywhere.
- Built-in CW decoder that allows the operator to decode Morse code without using a PC or other external equipment. The decode filter automatically follows the target signal, and keying speed is automatically adjusted.

Enter "IC-7300MK2" at DXEngineering.com for more details.

ICO-IC-7300MK2	Icom IC-7300MK2 Transceiver	**CALL/WEB**

IC-7760 HF/50 MHz All Mode Base Transceiver



The IC-7760 features an innovative shack style consisting of a remote control head and separate RF deck, connected with a commercially available control (LAN) cable (Cat5e or higher). This increases the flexibility of your station installation, making more space available on the desktop by placing the RF deck in an area closer to the antenna feedpoint. With a LAN connection, the IC-7760's control console can be moved anywhere in the house and operated not only from the shack but also from the living room. In addition to the direct connect feature, this allows you to utilize your home network to make any tabletop your shack—with no PC required. Features include:

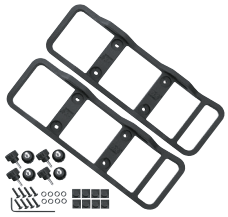
- Independent MAIN/SUB receivers, from the antenna to the speaker
- Advanced RF Direct Sampling System
- DIGI-SEL (Digital Pre-Selector) and preamp for effective rejection of strong out-of-band signals
- Multiple separated HF band-pass filters
- 200W output 100% duty cycle
- DPD (Digital Pre-Distortion) technology that corrects non-linear distortion at the final amplifier by applying inverse distortion in advance
- 450W-class 65 V LDMOS-FET in the PA section, combined with a large heat sink and effective cooling system achieve 200W* full power, full duty cycle operation (*200W and one-hour continuous transmission with 100VAC input (at ambient temp. 25 °C)
- Built-in automatic tuner
- Main (7" wide)and sub (2.4" wide) dual displays
- Dual Spectrum Scope and waterfall
- Whether from a remote part of your home QTH or at a remote location somewhere around the world, RS-BA1 Version 2 software enables you to operate your IC-7760
- Audio Scope makes it easy to monitor signal characteristics
- Dual speakers, SD card slot, I/Q signal output
- DVI-D connector on the remote console outputs digital signals to an external display
- The IC-7760 comes with Control Head with 15VDC 3A AC adapter, RF Deck and AC power cable (90-264VAC), Ethernet cable, desktop stand, and plugs

Enter "IC-7760" at DXEngineering.com for many more details.

ICO-IC-7760	IC-7760 HF/50 MHz All Mode Base Transceiver	**CALL/WEB**
ICO-SP-41	Base Station Speaker	**$299.99**
ICO-OPC-2501	Amplifier Interface Cable for IC-7610/IC-7760	**$55.99**
ICO-RC7760	Remote Control Head for IC-7760	**$2,189.95**
XYZ-32GB-SD	32GB High-Speed Memory Card	**$20.99**

DX ENGINEERING

Radio Side Rails for IC-7300/9700/R8600



These rails guard the front and rear panels of the IC-7300, IC-9700, and IC-R8600 whenever the radios are used for portable ops. They are made from a high strength but lightweight impact-resistant black polymer. They serve as handles at the front and are flared outward to retain normal access to the controls. Their curved shape at the back panel makes it easier to slip the rig into a backpack. They feature the appropriate cutouts for ventilation and connections. Specialized contours facilitate easy hook and loop strap mounting of an automatic antenna tuner or other accessory. Kit includes four M4 thumbscrews and four M4 hex socket head screws with hex wrench so attachments can be temporary or long-term. For added protection, eight user-installed rubber bumpers are included.

DXE-RSR-7300	Radio Side Rails for IC-7300/9700/R8600	**$129.99**



IC-9700 VHF/UHF/1.2 GHz Transceiver

Built for those who relish the challenge and rewards of VHF/UHF weak-signal operating, Icom's IC-9700 delivers the goods. It's an RF direct sampling receiver for 2M and 70cm, with a single, down conversion for 23cm with an IF sampled receiver between 311–371MHz. Operators can expect a quiet receiver thanks to the rig's DSP technology. The powerful PA provides 100W on 2M, 75W on 70cm, and 10W on 23cm. The IC-9700 comes with band-specific memory channels, and the ability to adjust band-specific receiver and transmit settings, including noise blanker, noise reduction, RF power, TX power limit, and TX delay. Here are just a few more of its many features:

- Supports CW/AM/SSB/SM/RTTY/FM and D-STAR DV and Digital Data (DD) modes
- DD mode provides 128 kbps data communication
- Smooth satellite operation with normal/reverse tracking and 99 satellite channels
- Real-time, high-speed spectrum scope and waterfall display
- Dualwatch operation and full-duplex operation in the satellite mode
- Audio Scope
- 4.3" touch screen color TFT LCD
- Main or Sub-Band Scope
- Supports 2-band simultaneous reception
- Dual D-STAR receive (decodes two voice streams simultaneously)

Get more details by entering "9700" at DXEngineering.com.

ICO-IC-9700	IC-9700 VHF/UHF/1.2 GHz Transceiver	**CALL/WEB**
ICO-SP-38	Base Station Speaker	**$209.99**
ICO-MB-123	Transceiver Carrying Handle	**$40.99**
ICO-MB-118	Mobile Mounting Bracket	**$53.99**
XYZ-32GB-SD	32 GB Ultra High Speed Memory Card	**$20.99**

IC-718 HF Base Station Transceiver



The most practical DSP rig you'll ever own! It covers 160-10 meters (except 60 meter) in CW, RTTY and AM modes. Power Requirement: 13.8VDC @ 20A. Dimensions: 9.4" W x 3.75" H x 9.4" D. Weight: 8.5 lbs.

- 5-100 watts adjustable output power
- 101 scannable memory channels
- IF shift control
- RF gain control, RF attenuator/preamp
- Electronic CW keyer, VOX voice operation
- High frequency stability
- Front facing speaker
- 2-40 watts AM
- 0.03-30 MHz RX coverage
- Mic compressor
- Auto-notch filter
- Digital S/RF meter
- Optional filter selection
- Hand mic included

ICO-IC-718	HF Base Station Transceiver	**CALL/WEB**
ICO-MB-23	Transceiver Carrying Handle Kit for IC-718	**$27.99**
ICO-OPC-025D	DC Power Cable, Inline Fuse Holder, Molex 6-Pin	**$45.99**

Remotely Control Icom Transceivers Through an IP Network!

The IP Remote Control Software allows you to operate an Icom radio installed in another room using your home network or even from a remote location over the Internet. The software works with Icom IC-705, IC-9100, IC-7800, IC-7700, IC-7600, IC-7610, IC-756PROIII, IC-746PRO, IC-7400, IC-7200, IC-7300, IC-7760, IC-7850LE, IC-7851 and IC-7000 transceivers. Version 2USB upgrades include the ability to select between normal and large panel size, indicator click operation to change settings, RIT and TX functions, mute button and SUB dial. All you need is Windows 10 and high-speed Internet connections at each end for best results. Windows 8 and 8.1 are also supported. Comes with thumb drive and USB A-B cable.
Enter "ICO IP Remote" at DXEngineering.com for more details.



ICO-RS-BA1-V2USB IP Remote Control Software, Version 2USB..... **$159.99**

IC-905 VHF/UHF/SHF All Mode Base/Portable Transceiver



Take advantage of the Icom IC-905 transceiver—the first in the industry to offer the capability of operating up to 10 GHz with the optional CX-10G Transverter (sold separately). This QRP rig offers all common operating modes: SSB and CW, AM/FM, and full D-STAR functionality with DV (digital voice), DD (data) modes and analog FM ATV (analog Amateur Television) with included AV input/output ports. Output power for the IC-905 is 10W on 144/430/1200 MHz, 2W on 2400/5600 MHz, and 0.5W with the optional 10 GHz module. The IC-905 features a 4.3" color touchscreen LCD with a high-performance real-time, bandwidth-adjustable spectrum scope and waterfall display. It also includes an ample number of ports to connect external accessories. The CX-10G Transverter works only with the IC-905. The IPX5 waterproof device converts 2.4 GHz IF signals to the 10 GHz band, opening a new range of frequencies for experimentation and communication. Powered by the IC-905, the lightweight unit connects directly to the transceiver. Also available are three Icom Colinear Antennas (2.4, 5.6 or 10 GHz) and a 10 GHz Parabolic Antenna—all fully compatible with the IC-905. **Enter "IC-905" at DXEngineering.com for more details.**



ICO-CX-10G

ICO-IC-905	Icom IC-905 Transceiver	**CALL/WEB**
ICO-CX-10G	Icom 10 GHz Transverter for IC-905	**$1,149.99**
ICO-AH-24	Icom 2.4 GHz Colinear Antenna with Mount	**$349.95**
ICO-AH-56	Icom 5.6 GHz Colinear Antenna with Mount	**$349.95**
ICO-AH-100	Icom 10 GHz Colinear Antenna with Mount	**$349.95**
ICO-AH-109PB	Icom 10 GHz Parabolic Antenna with Mount	**$1,299.95**

IC-7100 HF/VHF/UHF Transceiver



This versatile transceiver features intuitive dot-matrix LCD touchscreen; multi-function meter/SWR graphic display; angled control head; ample speaker; integrated CW keyjack, microphone, and control cable; D-STAR DV mode digital voice and low-speed data communications with optional module; 32-bit floating point DSP; DSP controller RF speech compressor; built-in SD card slot for voice storage and data cloning; RTTY demodulator and decoder; and 505 memory channels. Includes hand microphone; ACC, separation, and DC power cable; and electronic keyer and hand key plug.
Enter "IC-7100" at DXEngineering.com for more details.

ICO-IC-7100	HF/VHF/UHF Digital Transceiver	**CALL/WEB**
ICO-MB-62	Mobile Mounting Bracket	**$44.99**
ICO-MBA-1	Mobile Control Head Mounting Bracket	**$41.99**
ICO-MBF-1	Suction Mount, Use with MBA-1	**$85.99**
ICO-CS-7100	Programming/Cloning Software	**$88.99**
ICO-OPC-589	Mic Adapter Cable, 8-Pin Modular to 8-Pin Round	**$39.99**

High-Speed Memory Card

SanDiskUltra® SDHC UHC-I 32GB memory cards are rated at Speed Class 10 and UHS Speed Class U1.



XYZ-32GB-SD	32GB High-Speed Memory Card	**$20.99**
XYZ-32GBMICROSD	32GB High-Speed Micro Memory Card	**$18.99**

Accessory	Part Number	Description	ICO-IC-7300MK2	ICO-IC-718	ICO-IC-7300	ICO-IC-7610	ICO-IC-7610-32	ICO-IC-7851	ICO-IC-7100	ICO-IC-7760
Antennas	ICO-AH-730	Automatic Antenna Tuner, Remote, 160-6M	x	x	x	x	x		x	x
	ICO-AH-2B	Antenna Element with Base, Compatible AH2, AH3 and AH4	x	x	x	x	x		x	
	ICO-AH-710	Folded Dipole	x	x	x	x	x			
	ICO-AH-740	Relay, Driven Compant Automatic Tuning Antenna, 1.6-29.999 MHz	x	x	x	x	x			
Cables	ICO-OPC-1529R	RS232 Type PC/GPS Cable							x	
	ICO-OPC-8900022020	DC Power Cord, Same as Supplied	x	x	x	x	x			
	ICO-OPC-510	AC Power Cable						x		
Control Cable Adapters	ICO-OPC-599	Accessory Port Y-Adapter, 13-Pin DIN Plug to 7-Pin and 8-Pin DIN Receptacles	x	x	x				x	
	ICO-OPC-2321	Control Cable Adapter to 4-Pin Type for AH740	x	x	x					
Hand Mic	ICO-HM-219	Hand Microphone, Same as Supplied	x	x	x	x	x			x
Remote Control	ICO-RC-28	Remote Control USB Encoder, with Tuning Knob and Transmit Button				x	x	x		x



FRI-AURORA-510

New!



FRI-AURORA-510M

Aurora™ Series 500W HF/6M SDR Transceivers

FlexRadio

FlexRadio changes the game with the compact and powerful all-mode Aurora. At the heart of the Aurora is a revolutionary 500W PEP HF/200W 6M transmitter module that achieves 80% nominal efficiency—a major leap over conventional MOSFET and LDMOS designs. The result: less heat to dissipate, a smaller heatsink, a much lighter radio, and exceptional RF performance. Offering numerous benefits including exceptional RF performance, full duplex cross-band operation, 115 dB 2 kHz RMDR, and integrated GNSS receiver, the Aurora includes everything needed inside its rugged chassis: power supply, automatic antenna tuner (500W), and transmitter with a standard IEC plug accepting 80-264VAC. Integrated remote operation is available with a Maestro, iPad, iPhone, or PC/laptop. M versions include an 8" 1920 X 1200 IPS display with external monitor port for those operators who prefer localized control at the radio. Like other series of Flex transceivers, SmartSDR® software provides a wide range of usability and signal processing enhancements.

510/510M

- 2 independent band/mode receivers
- 1 receive only port
- 1 transverter/exciter port
- Direct sampling SDR 122.88 Msps, 16 bit
- 145 dB dynamic range

520/520M

- True Diversity Reception
- Contest-quality band filters: >50 dB rejection band-to-band
- Integrated SO2R Solution Support in one radio
- 4 independent band/mode receivers
- 2 receive only ports
- 2 transverter/exciter ports
- Direct sampling SDR 245.76 Msps, 16 bit
- 145 dB dynamic range

Enter "Flex Aurora" at DXEngineering.com for many more details.

FRI-AU-510	510 Aurora 500W HF/6M	**CALL/WEB**
FRI-AU-510M	510M Aurora 500W HF/6M, 8" Touchscreen	**CALL/WEB**
FRI-AU-520	520 Aurora 500W HF/6M	**CALL/WEB**
FRI-AU-520M	520M Aurora 500W HF/6M, 8" Touchscreen	**CALL/WEB**





New!

Maestro Control Console

FlexRadio

This intuitive, plug-and-play control console allows you to operate any FLEX-6000, FLEX-8000, or Aurora Series transceiver without a traditional PC. Simply connect Maestro directly or via your local area network (LAN) to begin operating. Frequently used controls are placed within easy reach and clearly labeled for efficient, low-motion operation. Less common functions are accessible through the large capacitive touch LCD, which supports intuitive pan, zoom, tune, and menu navigation—like modern smartphones and tablets. CW paddles can also be connected directly for seamless integration. With its compact, lightweight design and minimal wiring, Maestro offers flexible placement anywhere in your shack or home.

Other features include:

- External monitor connection
- Improved Wi-Fi 6
- Support for an optional rechargeable battery (not required for standard operation)
- Power supply is included
- 8" high-definition 1920 x 1200 WUXGA multi-touch display
- Ergonomically spaced/single-function controls
- Illuminated buttons
- Two full VFOs; dual VFO readouts
- Up to two simultaneous, real-time spectrum displays and waterfalls
- Multiple input/output options

FRI-MAESTRO	Maestro Console for FLEX 6000/8000/Aurora Series	**$1,599.00**
FRI-MAESTRO-DC	Acrylic Cover for Maestro	**$59.99**
FRI-C-MATT	6900 mAh Li-Ion Battery for Maestro	**$215.00**
FRI-HINGE-FEET	Hinge Feet for Maestro, Black Anodized	**$99.99**
FRI-MAE-C-ADAPTR	1/8" Mono to RCA Adapter for PTT Connector, CTIA Stereo Jack Y Cable for Maestro	**$15.00**
FRI-DC-MAESTRO	Dust Cover for Maestro, Embroidered	**$99.99**

In-Stock Parts Typically Ship The Same Day.



FRI-FLEX-8400ATU

FRI-FLEX-8600M



FRI-FLX-CKNOBLA

FlexRadio

New!

FlexRadio 8000 Signature Series Transceivers

DX Engineering is proud to be the exclusive distributor of FlexRadio products in the U.S., joining the Texas-based company's network of international distribution partners. Find their lineup of game-changing products beloved by contesters, DXers, remote operators (all radios support remote operations), and discerning hams by **entering "FlexRadio FRI" at DXEngineering.com.**

8400 Signature Series Transceivers

FLEX-8400: Designed for hams who operate exclusively via remote access, the FLEX-8400 is engineered as a server-based SDR transceiver. It supports SmartSDR® clients on Windows, Mac, iOS, and Maestro, allowing seamless control from virtually anywhere. With dual independent receivers and full duplex cross-band capability, it's ideal for DXing, contesting, and digital modes—no external sound cards or interfaces required.

- Using a PC, laptop, or Mac, the FLEX-8400 supports up to two 7 MHz spectrum/waterfall displays and independent receivers, providing enhanced band visibility.
- Receivers can operate simultaneously with instant QSY between VFOs.
- The radio delivers advanced band awareness, low phase noise, brick wall filters, and high-quality audio performance to support a wide range of operating styles.

FLEX-8400ATU: This model comes with an integrated automatic antenna tuner for tuning antennas up to 3:1 SWR or better on 80-10M and 2.5:1 SWR on 160M and 6M.

FLEX-8400M: Get all the capabilities of the 8400 plus an 8" 1920 × 1200 IPS WUXGA touchscreen for those who prefer localized control at the radio. It offers intuitive controls for exceptional SDR functionality in a traditional radio interface. Unmatched band awareness comes from the integrated display.

- Symmetrical and independent dual VFO controls maximize productivity.
- Requires no PC, network, or steep learning curve—just plug in and operate.

FLEX-8400MATU: This model features all the benefits of the 8400M with the addition of an integrated automatic antenna tuner.

FRI-FLEX-8400	HF/6M, Server-Based SDR Transceiver	**CALL/WEB**
FRI-FLEX-8400ATU	HF/6M, w/Automatic Antenna Tuner	**CALL/WEB**
FRI-FLEX-8400M	HF/6M, 8" Touchscreen, Localized Control at Radio	**CALL/WEB**
FRI-FLEX8400MATU	HF/6M, 8" Touchscreen, Automatic Antenna Tuner	**CALL/WEB**
FRI-8400-ATU	Automatic Antenna Tuner Kit, 6400M/8400M	**$350.00**

8600 Series Transceivers

FLEX-8600: The 8600 functions as a server accessible locally or remotely via PC, laptop, Maestro, Mac, or iOS. It supports Adaptive Predistortion and includes a built-in antenna tuner and integrated GPS receiver with antenna.

- Direct sampling SDR at 245.76 Msps with 16-bit resolution, achieving 115 dB RMDR at 2 kHz and >145 dB dynamic range.
- Supports 100W PEP HF-6M operation across all modes and bands, with contest-grade band filters offering >50 dB rejection for superior signal isolation.
- Four independent 14 MHz spectrum/waterfall displays and four independent band/mode receivers.
- Supports full duplex cross-band operation on two antennas. True Diversity Reception improves weak-signal detection in high-interference environments.
- Includes two receive-only ports and two transverter/exciter ports, which can also serve as receive antenna inputs.
- Provides an economical SO2R solution with OTSPR support.

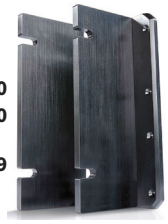
FLEX-8600M: Includes 8" touchscreen and ergonomic controls.

FRI-FLEX-8600	HF/6M, Server-Based SDR, Antenna Tuner	**CALL/WEB**
FRI-FLEX-8600M	HF/6M, 8" Touchscreen, Tuner	**CALL/WEB**

All FlexRadio transceivers ship with an FHM-3 hand mic, DC power cord, Ethernet cable, and Quick Start Guide.

Accessories

FRI-FLX-CKNOBLA	Multi-Function Tuning Knob for Flex Radios	**$199.00**
FRI-RKMT	Rack Mount for 6000/8000 Series	**$99.00**
FRI-USBSERIAL	USB to RS-232 Adapter Cable for Flex 6000/8000 Series	**$49.99**



FRI-RKMT

Check out the FlexRadio-friendly 403A Power Genius XL Amplifiers (pg. 44), Tuner Genius XL Antenna Tuners (pg. 48), and Antenna Genius 8x2 Plus Antenna Switch (pg. 72).

⚠ **WARNING:** For Proposition 65 information, see p. 3

YAESU



FTX-1 Series HF/50/144/430 MHz SDR All Mode Base/Portable Transceivers

It's great to have options—and that's just what you get with Yaesu's FTX-1 Series transceivers. They provide continuous wideband RX coverage from 30 kHz-174 MHz and 400-470 MHz, including SWL, FM Broadcast, and Air-Band. TX coverage includes 160-10M, 6M, 2M, and 70cm. Backed by an industry-leading three-year warranty, the FTX-1 Series offers the ultimate all-band, all-mode compact portable SDR transceiver. Choose from two models:

- FTX-1 Field version for QRP portable operating
- FTX-1 Optima version with SPA-1 100W detachable amplifier for use as a base or QRP rig

The Field model features up to 10W of power output when used with an external 13.8VDC power supply. By attaching the Li-ion battery to the rear of the Field head, the FTX-1 provides 6W (5W for QRP) standalone operation on HF through VHF/UHF bands in all modes—SSB, CW, AM, FM, and C4FM digital. The SPA-1 amplifier can be purchased separately and connected to the rear of the FTX-1 Field.

Nine-hour standalone operating time with 6W on HF bands (SSB) and eight-hour operating time with 6W on VHF/UHF bands (FM) are available (6-6-48 duty cycle). The FTX-1 head can charge the included Li-ion battery automatically when connected to an external 13.8VDC power supply or use an optional third-party USB Type-C PD (power delivery) cable to recharge the battery (45W or greater/15V 2A).

The FTX-1 Field and Optima models include:

- FTX-1 head
- 10.8V 6400mAh Li-ion battery (SBR-52LI)
- DC power cable with 2.5mm ID 2-pin round power plug
- SSM-75E hand microphone

The SPA-1 100W Power Amplifier that comes with the Optima model includes a built-in automatic antenna tuner. The SPA-1 can be quickly detached and replaced with the included Li-ion battery. Alternatively, 10W field operation is supported using an external 13.8VDC power supply—both configurations allow rapid, tool-free setup. The Optima is capable of low-power operation at 6W (5W QRP). Also included with the Optima is a heavy-duty 25A DC power cable.

More features of the FTX-1 Series transceivers include:

- Memory Auto Grouping, Quick Memory Bank, Primary Memory Group
- 3D Spectrum Stream
- High-resolution 4.3" TFT color touch panel display
- 1200/9600bps APRS® data communication
- USB ports to support CAT operation, audio input/output, and TX control

Enter "Yaesu FTX-1" at DXEngineering.com for more details.

YSU-FTX-1OPTIMA	Yaesu FTX-1 Optima, 100W Version, Field + SPA-1 Amp;	**CALL/WEB**
YSU-FTX-1FIELD	Yaesu FTX-1 Field, 10W DC Version, 6W w/Incl. Battery...	**CALL/WEB**
YSU-FGPS-5	Plug-In GPS Module	**$79.95**
YSU-SBR-52LI	Li-Ion Battery, 10.8V, 6400mAh Replacement	**$229.95**
YSU-SCF-1	External Cooling Fan for FTX-1 Field	**$61.95**
YSU-SCU-66	FTX-1 Extension Cable, 5'	**$139.00**
YSU-SCU-66L	FTX-1 Extension Cable, 10'	**$149.00**
YSU-SCU-67	Mic Adapter Cable, 8-Pin to 6-Pin	**$59.00**
YSU-SPA-1	FTX-1 Series 100W HF, 50W VHF/UHF Amplifier	**$709.95**
YSU-SPG-1	FTX-1 Field Head Protection Guard	**$49.95**
YSU-BU-6	BU-6 Bluetooth Unit Plug-In Module	**$61.95**

YAESU



FT-991A HF/VHF/UHF Multi-Mode Transceiver

Ideal as an all-band base station radio, Yaesu's FT-991A delivers 160M-70cm coverage with multi-mode operation, including CW, AM, FM, SSB and Digital Modes like Packet, PSK-31, RTTY, and C4FM. Updated from the original FT-991, the FT-991A includes a real-time spectrum scope and a multi-color waterfall display.

This radio features an advanced balanced receiver circuit configuration and cutting-edge DSP to deliver excellent interference rejection in real-world operating conditions. The selectable roofing filters help mitigate interference.

The FT-991A packs 100 watts of output power (50 watts on VHF), and has a built-in automatic antenna tuner that will memorize its tuning data to make band switching a laser-fast process. This rugged and compact radio is at home in a base station or when paired with Yaesu's ATAS antenna, making it an excellent portable radio.

YSU-FT-991A	HF/VHF/UHF Multi-Mode Transceiver	**CALL/WEB**
YSU-MMB-90	Mobile Mounting Bracket	**$59.99**
YSU-ATAS-25	Micro Manually Tuned Portable Antenna	**$289.99**



FTdx-101D and FTdx-101MP HF/50MHz Transceivers

Yaesu's two industry-leading rigs have achieved unrivalled dual-receiver performance with innovations designed for the ultimate radio operating experience. The leading-edge hybrid-SDR architecture of the FTdx-101D 100 watt and FTdx-101MP 200 watt transceivers are both packed with features for radio enthusiasts, DXers, and serious contesters: 160-6 meter coverage; large touch-panel color display with dual multi-function meters; dual frequency readouts and multi-functional touch controls; intuitive menus; real-time Three Dimension Spectrum Stream and 2-D waterfall and panadapter scope; dual LED push-buttons to enable effortless, rapid independent band changes; Yaesu's renowned interference reduction system and 400 MHz High Resolution Direct Digital Synthesizer; two identical and independently controlled receivers and phase-locked diversity dual-receive with two speakers or headphones. Both models deliver superb close-in dynamic range performance, even in crowded bands. The Direct Sampling SDR section provides astounding visual awareness of activity across the band and near the operating frequency on each receiver.

YAESU

Get the full story by entering "FTDX" at DXEngineering.com. Other highlights of this contest-class transceiver include:

- Active band monitor
- General coverage RX
- High-Q VC tuning front-end
- 32 Bit IF D SP and digital noise reduction
- DSP auto notch
- Ergonomically arranged transceiver controls
- 9 MHz IF roofing filter
- Ultra-low phase noise 1st local oscillator

YSU-FTDX-101D*	HF/50MHz Transceiver, 100 Watt	**CALL/WEB**
YSU-FTDX-101MP*	HF/50MHz Transceiver, 200 Watt, with SPS-101 Speaker/Power Supply Included	**CALL/WEB**
YSU-SP-101	Desktop External/Secondary Speaker for FTdx-101D/MP	**$259.99**
YSU-SSM-75G	Replacement Speaker Mic for FTdx-101D/MP	**$79.99**

**Additional filters and VC-TUNE are available for installation. Call and speak with a sales rep for details.*





YSU-SP-30



YSU-XF-130CN

FTDX10 Compact HF/50 MHz 100W SDR Transceiver

YAESU

Whether you're in the market for a base or portable rig—or both—look no further than Yaesu's popular FTDX10 transceiver. It utilizes the Yaesu Hybrid SDR configuration—Narrow Band SDR and Direct Sampling SDR—like the FTDX101 series. The Narrow Band SDR receiver emphasizes excellent receiver performance, while the Direct Sampling SDR provides a Digital Processing Real-Time Spectrum Scope.

The radio is loaded with features, including 15 separate band pass filters; effective QRM rejection with the IF DSP; high-quality and super stable final amplifier utilizing the new push-pull MOSFET RD70HUP2; aluminum heat sink with 80mm low-noise axial flow cooling fan; high-speed automatic antenna tuner with a large capacity 100-channel memory; RF and AF transmit monitor; microphone amplifier with three-stage parametric equalizer (SSB/AM mode); band stack function; and more, including:

- Narrow Band SDR with three types of roofing filters and phenomenal multi-signal receiving characteristics
- RMDR reaches 116 dB or more; the close-in BDR reaches 141 dB or more; and 3rd IMDR reaches 109 dB or more in the 14 MHz band at 2 kHz separation
- 250 MHz High Resolution Direct Digital Synthesizer delivers quiet and clear reception
- 3-Dimensional Spectrum Stream on the 5" full-color TFT display with touch-panel functionality
- Front panel designed for superior operating efficiency, including multipurpose VFO outer dial—a large multipurpose ring around the outside of the VFO dial that enables additional controls and recall of memory channels
- External Display DVI Output on FTDX10 rear panel supports dedicated external flat panel monitor screen
- Remote operation with optional SCU-LAN10 unit and network remote control software

For many more details, enter "FTDX10" at DXEngineering.com

YSU-FTDX-10	Yaesu HF/50 MHz 100W SDR Transceiver	**CALL/WEB**
YSU-SP-30	Desktop External Speaker for the FTDX10	**$209.99**
YSU-XF-130CN	Internal Plug-In Narrow CW Roofing Filter, 300 Hz	**$225.99**
YSU-M-70	Desktop Microphone	**$159.95**

YAESU



FT-710 AESS HF/50 MHz Base/Portable Transceiver

Yaesu's 160 through 6 meter FT-710 AESS Transceiver with SP-40 Speaker features advanced hybrid-SDR circuitry that achieves industry- and class-leading receive performance in a compact design that makes it perfect for portable ops as well as base station service. It's loaded with the good stuff, including AESS (Acoustic Enhancement Speaker System)—a welcome addition for a transceiver of this size (9.4" W x 3.1" H x 9.7" D). The AESS' mid-low frequency enhancement speaker and the side speaker combine to create dramatic high-fidelity audio output. The result is an expansive and clear receive audio from a rig weighing just under ten pounds. Other features include 5 to 100 watts CW/SSB; 5 to 25 watts AM; 4.3" high-resolution TFT color multifunction touchscreen display; intuitive management of settings and functions; easy navigation thanks to an ergonomically designed front panel and large control dials; real-time spectrum scope display that employs the FTDX series SDR 3D scope 3-Dimensional Spectrum Stream to visualize changes in signal strengths within the bands; multi-signal receiving characteristics enabled by powerful front-end and a low-noise oscillator system; QRM rejection with all interference functions (high-speed DSP) accessible from the DSP dial; quick Memory Bank stores dedicated memory channels that are easily recalled with the touch of a button; and up to 10 memory channels. You also receive:

- Preset mode functions, most suitable for FT8 operation, are available with up to five preset parameters
- Built-in high-speed automatic antenna tuner with 100 channel memory (support for connecting an FC-40 Remote Auto Antenna Tuner is supplied on the back panel)
- CW operation with CW Zero-In Display, CW Auto Zero-In, CW Reverse, CW Keying Signal Form Shaping, and Contest Memory Keyer
- SD memory card slot for recording and saving transceiver settings, memory contents, and screen capture images, as well as for updating firmware

The Yaesu FT-710 AESS comes with SSM-75E Hand Microphone, SP-40 External Speaker, DC power cable w/fuse, and spare fuse.

Enter "FT-710" at DXEngineering.com for more details.

YSU-FT-710-AESS	FT-710 AESS HF/50 Base/Portable Transceiver	**CALL/WEB**
YSU-SMB-209	Mobile Bracket for FT-710/FT-710 AESS	**$46.99**
YSU-MHG-1	Carrying Handle for FT-710 AESS, FTDX10, FT-450D	**$19.99**

YAESU



FT-710-FIELD HF/50 MHz Base/Portable Transceiver

The high-performance Yaesu FT-710 transceiver, with advanced SDR circuitry that accomplishes industry-leading receive performance, is now available in a portable-friendly version. A carry strap kit is included for convenient transport. The FT-710-FIELD saves weight and space by excluding the SP-40 speaker, an available option if you want to take advantage of Yaesu's Acoustic Enhanced Speaker System (AESS) in the field, too. This compact rig (9.4" W x 3.1" H x 9.7" D) has all the great features and benefits of the FT-710-AESS (see above), including 100W CW/SSB, large control dials and ergonomically designed front-panel layout for easy navigation, real-time spectrum scope display, high-speed DSP for effective QRM rejection, built-in high-speed automatic antenna tuner, CW operation with CW zero-in display, and much more. **Enter "710-Field" at DXEngineering.com for more details.**



YSU-FT-710-FIELD	FT-710 w/Carry Strap, w/o SP-40 Speaker	**CALL/WEB**
YSU-SP-40	External Desktop Speaker	**$169.99**

DX ENGINEERING



Radio Side Rails for FT-710

Made from strong and lightweight impact-resistant black polymer, these robust rails protect the radio's front, rear, and side panels while providing an easy way to transport the rig in the field. Hardware included.

DXE-RSR-710	Radio Side Rails for FT-710	**$129.99**

YAESU

Accessory	Part Number	Description	YSU-FT-710	YSU-FT-991A	YSU-FTDX10	YSU-FTDX-101D/MP
Antenna	YSU-ATAS-120A	40M-70cm Auto Active Tuning Mobile Antenna	x	x	x	
Base Kit	YSU-ATBK-100	VHF/UHF Antenna Base Kit	x	x	x	
Microphone	YSU-MH-36E8J	Hand Mic, DTMF		x		
Cable	YSU-CT-39A	Packet Cable, 6-Pin DIN to Stripped Leads	x	x	x	
Keypad	YSU-FH-2	Remote Control Keypad	x	x	x	x

KENWOOD



TS-890S HF/50 MHz Transceiver

Looking for an exceptional rig that can handle truly challenging conditions? Then upgrade your shack with Kenwood's most advanced DSP transceiver, the TS-890S HF/50 MHz. Features include:

- 160-6 meters 100W all modes with built-in antenna tuner
- Impeccable receiver and audio performance
- 7" color TFT touch display with auto-scroll band-scope and multipurpose display
- Animated meter display toggles between TS-930 meter and TS-940 meter at a touch!
- Full down-conversion superheterodyne
- Advanced DSP Noise Reduction function
- Extra-low phase noise local oscillator
- Built-in roofing filters, 15 kHz, 6 kHz, 2.7 kHz, and 500 Hz (270 Hz optional)
- IF output for external receiver display
- Encode and decode built-in for CW/PSK/RTTY
- 120 channel memory

HF enthusiasts who want to move to the next level can get the full story by entering "TS-890S" at DXEngineering.com.

Two TS-890S accessories are also available: the YG-82CN-1W 270 Hz Crystal Roofing Filter and the SP-890W Base Station Speaker.

KWD-TS-890S	HF/50 MHz Transceiver	**CALL/WEB**
KWD-SP-890W	External Speaker for TS-890S	**$285.99**
KWD-YG-82CN-1W	270 Hz Crystal Roofing Filter	**$219.99**

KENWOOD



TS-590SG HF/6 Meter Base Transceiver

Designed for the most demanding DX and contest operators, Kenwood's TS-590SG 100 watt transceiver boasts highly-reliable transmit outputs to deliver an exceptionally good transmit signal. The 100 watt TS-590SG has the best receive dynamic range in its class versus off-frequency interference. It features a 32-bit floating DSP, a built-in automatic antenna tuner, beat cancel and CW auto tune. USB and serial DB-9 ports make connection to a PC easy. The radio comes with Kenwood's Control Software and Radio Host Program for VoIP operation.

KWD-TS-590SG	HF/6 Meter Base Transceiver	**CALL/WEB**

KENWOOD

Accessory	Part Number	Description	KWD-TS-590SG	KWD-TS-890S
Cable	KWD-PG-20	DC Power Cable, Molex 4-Pin to Bare Wire, 2 Inline Fuse Holders	x	x
Hand Microphone	KWD-MC-43S	Hand Mic, PTT Switch, 8-Pin Plug	x	x
TCXO Unit	KWD-SO-3	Plug-In Module, TCXO Unit	x	

YAESU



SCU-LAN10 Network Remote Control System

Don't miss the chance to log a coveted DXCC entity while you're away from your shack! Why not make your standout Yaesu rig available to fellow club members? It's all possible with the SCU-LAN10 Network Remote Control System. This compact and powerful interface brings the advanced functionality of Ethernet LAN port direct remote control to your Yaesu FTDX-101D, FTDX-101MP and FTDX10 transceivers. Using free PC software, you can access and control these radios on your PC, local network or via the Internet from anywhere in the world with the SCU-LAN10 interface. In addition to basic transceiver operations, a variety of scope displays, including a dual-band scope, and other fulfilling functions make it possible to enjoy the advantages of your hybrid SDR from a remote location. The SCU-LAN10 includes a special 13-pin DIN interface cable, a USB cable and two snap-on ferrite RFI suppressors.

YSU-SCU-LAN10	Network Remote Control System, Yaesu FTDX-101 Series, FTDX10	**$447.99**

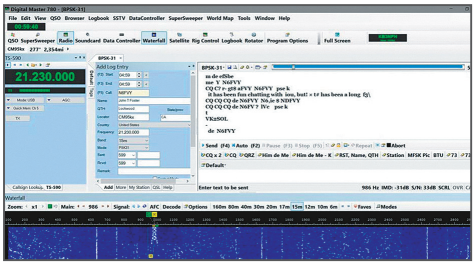
FDM-DUO Dual-Mode SDR QRP Transceiver

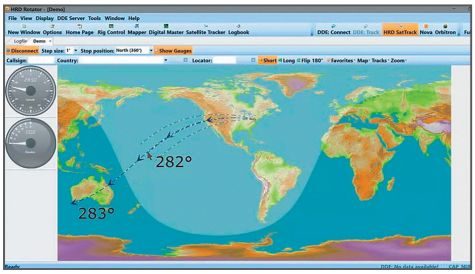


Available exclusively in North America through DX Engineering, ELAD's versatile and compact FDM-DUO QRP transceiver comes with a long list of ham-friendly features and benefits whether you're at home or traveling: 9 kHz-54 MHz (RX)/1.8-54 MHz (TX) coverage; 5W output that can operate independently without a PC; an alternative HF output jack offering 0 dBm output; VFO knob, knobs for volume and filter adjustments, and six buttons for direct access to essential functions; the latest SDR technology, including a fast analog-digital converter that directly samples the received HF signals into digital form; downstream DSP module that handles filtering/processing; selectable narrow, wide, and data FM filters; 10 noise-reduction positions; and a 16-bit ADC with a 122 MHz sampling rate. It supports receive modes including SSB, CW, AM (with Sync-AM), FM, WFM (with Stereo and RDS), RTTY, and DRM. The FDM-DUO's functionality is significantly enhanced when used with a computer. It features three USB 2.0 interfaces: one for CAT control, another for digital I/Q data for the waterfall diagram, and a third serving as an external sound card for the PC. This setup facilitates the use of digital modes like RTTY and PSK31, simplifying user handling by eliminating the need for additional USB drivers in most cases. Choose from red or black models.

ELD-FDM-DUO-B	FDM-DUO Dual-Mode SDR Transceiver, 160-6M, Black;	**$1,329.99**
ELD-FDM-DUO-R	FDM-DUO Dual-Mode SDR Transceiver, 160-6M, Red....	**$1,372.99**
ELD-SP-1B	DSP Speaker for FDM-DUO/FDM-DUOR	**$156.99**

Ham Radio Deluxe Software for Windows







Billed as the "World's Most Popular Ham Radio Software," the HRD suite gives you full command of your transceiver from your computer screen, lets you monitor amateur radio satellites, simplifies logging and tracking of QSOs, provides easy rotator control, and provides support of digital modes in a single package. Choose from five provided modules: HRD Rig Control, which lets you take advantage of computer control features built into the transceiver; HRD Logbook, which lets you keep track of all QSOs and provides automatic logging of FT8 contacts; Digital Master, which provides support for CW, RTTY, PSK31, FT8, and more; HRD Satellite Tracking, which lets you stay apprised of a satellite's footprint, projected path, and predicted elevation for given passes; and HRD Rotator Control, which manages beam headings via any computer-interfaced rotator controller. Note: This is only a short description of everything these modules offer. The HRD suite is available as a full-version perpetual license key sent from DX Engineering. You pay a one-time cost for lifetime use of the software, plus one year of updates and direct support. An additional annual fee gives you updates and support beyond the first year. Users require Windows 10 or 11 and minimum of 4GB of memory. **Enter "HRD Deluxe" at DXEngineering.com for more details.**

HSW-HRD-SW	Ham Radio Deluxe Software License Key	**$99.95**

Switch Pad 8 Transceiver Memory Keypad



In a heated amateur radio contest, the right gear can make a huge difference. With this in mind, the DX Engineering team created the eight-button Switch Pad 8 Transceiver Memory Keypad—a device that can give you a definite advantage. Designed for the Icom IC-7610, IC-705, IC-7850 and IC-7851, and Kenwood TS-890S and TS-990S transceivers, this external keypad lets you select voice and CW keying memories without the need to access the keyer menu on the transceiver's main touch screen. When contesting, this keeps your transceiver's main screen at full functionality while enabling selection of keyer memories without the need of a computer program. For Kenwood transceivers, in addition to memory keyer access, any of 99 different functions may be programmed to respond to one of the eight buttons, as described in the transceiver manuals.

DXE-SWP8	Switch Pad 8 Transceiver Memory Keypad for Select Icom/Kenwood Radios.....	**$96.99**

ID-5100A-D Digital Transceiver



Icom's cutting-edge ID-5100A-D Digital Transceiver has been a popular rig since the day it was launched. It features a large touchscreen LCD, optional Bluetooth® connectivity and second station control through an Android device.

The ID-5100A is a 50 watt D-STAR 2M/70cm mobile radio with a built-in GPS device, along with a CTCSS/DTCS encoder and decoder. The radio uses Icom's Dualwatch technology, and includes independent VHF/UHF band units, a built-in GPS engine and 1,000 memory channels. New deluxe model includes MBA-2 control bracket.

To add Bluetooth functionality to the Icom ID-5100, install the optional Plug-In Module. It works with the special Icom VS-3 headset to let you link your radio with Bluetooth enabled devices (like a car's infotainment system). This is a particularly handy feature if you live in a state that requires hands-free mobile communication.

The headset has a TX/RX switch, a PTT switch, plus three programmable buttons. A USB charging cable is included.

ICO-ID-5100A-D	D-STAR Deluxe 2M/70cm Digital Transceiver	**CALL/WEB**
ICO-MBA-2	Mounting Bracket	**$46.99**
ICO-OPC-2350LU	3-Cable Set, USB Type A Plug, w/Icom Interface Cable, USB Cable for Android, Icom OPC-1637 USB Cable	**$83.99**
ICO-OPC-1529R	PC Control Programming Cable, RS-232, Stereo 2.5mm Male Plug.....	**$47.99**

Reference Guides Base Transceivers



Sometimes the hardest part of using a radio is reading the lengthy instruction manual. Nifty created concise Reference Guides for specific radio models, written in easy-to-follow language. They're spiral bound and laminated so they won't get ruined in a drawer, EMCOMM Go Kit or glove box. Choose your manual from the radios below. If yours isn't listed, there are many more available at DXEngineering.com.

Part Number	Brand	Model	Price
NIF-MM-IC7100	Icom	IC-7100	**$38.95**
NIF-MM-IC718	Icom	IC-718	**$21.95**
NIF-MM-IC7300	Icom	IC-7300	**$29.95**
NIF-MM-IC7610	Icom	IC-7610	**$31.95**
NIF-MM-IC9700	Icom	IC-9700	**$35.95**
NIF-MM-TS590SG	Kenwood	TS-590SG	**$28.95**
NIF-MM-TS890S	Kenwood	TS-890S	**$35.95**
NIF-MM-FT710	Yaesu	FT-710	**$29.95**
NIF-MM-FT991A	Yaesu	FT-991A	**$31.95**
NIF-MM-FTDX10	Yaesu	FT-DX10	**$29.95**
NIF-MM-FTDX101D	Yaesu	FTDX-101D/MP	**$29.95**

Equipment Covers

You've spent a lot of money on your ham radio gear, so protect it with these high-quality Equipment Covers. These custom-fit covers are embroidered with the logo and model number of the gear they're protecting. Each polyester/cotton cover has slits in the back, so you can slip it over the radio or amp without unplugging any cables.

Part Number	Description	Price
RFO-FIC7300	Icom IC-7300	**$46.99**
RFO-FIC7610	Icom IC-7610	**$46.99**
RFO-DC-IC7760	Icom IC-7760	**$46.99**
RFO-FICR8600	Icom IC-R8600	**$46.99**
RFO-FIC9700	Icom IC-9700	**$46.99**
RFO-FTS590	Kenwood TS-590	**$49.99**
RFO-FTS890S	Kenwood TS-890S	**$49.99**
RFO-FT991	Yaesu FT-991	**$44.99**
RFO-DC-FTDX10	Yaesu FTDX10	**$46.99**
RFO-DC-FT710	Yaesu FT-710	**$46.99**
RFO-FFTDX101-MP	Yaesu FT-DX101-MP	**$46.99**
RFO-FFTDX101-D	Yaesu FT-DX101-D	**$46.99**





RFO-FIC7300

High-Speed Memory Card



SanDiskUltra® SDHC UHC-I 32GB memory cards are rated at Speed Class 10 and UHS Speed Class U1.

XYZ-32GB-SD	32GB High-Speed Memory Card	**$20.99**
XYZ-32GBMICROSD	32GB High-Speed Micro Memory Card	**$18.99**

Visit DXEngineering.com for the latest limited-time offers and special savings!

⚠ WARNING: For Proposition 65 information, see p. 3

IC-705 HF/VHF/UHF D-STAR All Mode Portable Transceiver



Join the growing legions of hams who are having a blast with this popular Icom rig, which boasts the features of the IC-7300, IC-7610, and IC-9700 in a portable QRP package small enough to hold in one hand (7.9" W x 3.1" H x 3.3" D) and fit inside a backpack for portable fun or EMCOMM operating. Features include:

- SDR Direct Sampling technology for low noise and low distortion receiver performance and impressive transmission capabilities
- 4.3" color touchscreen display—same as used in the IC-7300 and IC-9700—and high-speed, high-resolution spectrum scope and waterfall display in real time
- All-band, all-mode capability: 160-6M+2M+70cm; SSB/CW/RTTY/AM/FM/DV (D-STAR)
- 10W output power on external 13.8V supply or 5W with included clip-in rear panel battery pack (BP-272 Li-Ion)
- Built-in Bluetooth and wireless LAN
- Built-in GPS tracking logger and repeater locator
- Fully equipped for D-STAR functions
- Provided whip antenna for VHF/UHF, speaker microphone, and DC power cable

Billed by Icom as "Your New Partner for Field Operations," the IC-705 is designed to fit in an optional backpack (LC-192), featuring holes for antenna, as well as coaxial and microphone cables. See IC-705 accessories below.

ICO-IC-705	IC-705 HF/VHF/UHF D-STAR All Mode Portable Transceiver	**CALL/WEB**
ICO-AH-705	Icom HF/6M Automatic Antenna Tuner	**$399.99**
ICO-AL-705	Icom 40-10M Magnetic Loop Antenna	**$399.99**
ICO-BP-307	Icom 3150 mAh Li-Ion Battery	**$155.99**
ICO-CP-25H	Charger Cable, Cigarette Lighter Adapter	**$33.99**
ICO-HM-243	Icom IC-705 Speaker Microphone	**$91.99**
ICO-LC-192	Icom IC-705 Backpack	**$235.99**
ICO-OPC-2421	Icom IC-705 DC Power Cable	**$42.99**
ICO-MBF-705	Icom IC-705 Desktop Tray	**$53.99**
WMO-BASE-705	WiMo Desktop Stand	**$65.99**
WMO-MBA-705	WiMo Antenna Holder and Table Stand	**$199.99**
MTU-MAT-705PLUS	mAT TUNER IC-705 Automatic Antenna Tuner, 1.8-54 MHz	**$229.95**
MTU-MAT-RC1	Coaxial Cable Assembly for MAT-705PLUS	**$10.00**
DMV-Y-ADAPT-3	Y-Adapter Separator Cable for IC-705, 5.9'	**$5.99**
NIF-MM-IC705	Mini-Manual for IC-705	**$33.95**

CHELEGANCE JNCRadio



Protective Case for IC-705, KX2/KX3 & X6100

New!

Protect your transceiver investment with this 4-in-1 waterproof and shock-proof radio case custom-designed to protect and organize your Xiegu X6100, Elecraft KX2/KX3, and Icom IC-705 in one compact, rugged enclosure. It's ideal for hams with multiple QRP rigs or clubs sharing different radios. IP-rated sealing keeps your transceivers safe from moisture, dirt, dust, and whatever the great outdoors throws its way. Includes four metal panels for the four rigs and all necessary hardware.

NCE-CH0032530-M 4-in-1 JCASE-XKI4 ..... **$430.00**

HF/6M Automatic Antenna Tuner



Icom's AH-705 Automatic Antenna Tuner (1.8 MHz to 50 MHz) delivers simple and effective tuning with just the push of the Tuner button on the IC-705 transceiver. Featuring maximum 10W input power, quick tuning times, P54 dust protection, and water-resistant construction, the AH-705 makes an excellent addition to this portable rig.

ICO-AH-705	Icom HF/6M Automatic Antenna Tuner	**$399.99**
ICO-OPC-2474	Optional Control Cable, 16.4'	**$46.99**
ICO-OPC-2475	Optional Coaxial Cable, 16.4'	**$86.99**

Ciro Mazzoni Radiocomunicazioni

New!



CI-V Air Link Wireless Interface for IC-705 & Ciro Mazzoni Loops

Here's a simple and innovative way to wirelessly connect your Icom IC-705 to the ATU 2.0 tuner of any of the Ciro Mazzoni loop antennas by I3VHF: STEALTH, BABY, and MIDI models. It gives you seamless control of the loop antenna tuner without the hassle of extra cables. Enjoy plug-and-play, fast installation with no complicated configuration (it connects directly to the ATU's rear panel RSD-232 port); reliable wireless connection; and an enhanced experience for both portable and fixed-station operators. The CI-V Air Link is powered via USB-C (5VDC 50mA power supply and USB-C cable not included).

MZZ-CI-V-AIRLINK CI-V Air Link Wireless Interface for IC-705 ..... **$259.99**

Prices are subject to change without notice.

IC-2730B Black Edition VHF/UHF FM Mobile Transceiver



With all the perks of the IC-2730A Plus, take advantage of this new IC-2730B edition's high-contrast, inverted black LCD for improved visibility in various light conditions, reduced glare, and low energy consumption. You get the full benefits of the IC-2730A Plus, including 50W power output covering the 2M (144-148 MHz) and 70cm (430-450 MHz) bands; VHF/VHF, UHF/UHF simultaneous receive; and the included HM-207 remote-control hand mic. An optional VS-3 Bluetooth headset is available and requires a UT-133/A Bluetooth module (both sold separately). Other features include cross band repeater capability, versatile scanning, and built-in CTCSS and DTCS for quiet stand-by and repeater access. Accessories for the IC-2730A also work with the IC-2730B.

ICO-IC-2730B Icom IC-2730B VHF/UHF FM Mobile Transceiver w/ High-Contrast Black LCD ..... **CALL/WEB**

IC-2730A VHF/UHF FM Transceiver



Icom's IC-2730A is a full-feature 50 watt dual-bander with a built-in duplexer, so you can use a single dual-band antenna to operate on both 2M and 70cm. The radio also boasts simultaneous VHF/VHF, UHF/UHF and VHF/UHF receive capabilities and 2 external speaker outputs. It uses CTCSS/DTCS tones for quiet stand by and repeater access. That makes this radio easy to use as a mobile or base station. Air band and weather band (with WX alert) coverage adds to the IC-2730A's versatility.

- Cross band repeater capability
- Free programming software
- Sub band auto mute function
- Auto repeater function
- Large, easy-to-read display with intuitive controls

This radio comes with a remote control microphone, a controller cable, a mic hanger and DC power cable.

ICO-IC-2730A	VHF/UHF FM Transceiver	**CALL/WEB**
ICO-MB-2730B	Mobile Transceiver Mounting Control Head Attachment Bracket, Includes MBA-4 and MBF-4	**$97.99**
ICO-MB-2730R	Mobile Transceiver Mounting Control Head Attachment Bracket, Includes MBA-5 and MBF-4	**$78.99**
ICO-MB-2730R1	Mobile Transceiver Mounting Control Head Attachment Bracket, Includes MBA-5, MBF-1, and MBF-4	**$183.99**
ICO-MBA-4	Control Head Reattachment Bracket, for IC-2730A	**$62.99**
ICO-MBA-5	Suction Cup Mounting Base	**$44.99**
NIF-MM-IC2730	Mini-Manual for IC-2730A	**$21.95**

Lido Mounts for IC-705 and Other Equipment



Lido Mounts offers a wide array of mobile mounting options for hands-free devices, receivers, microphones, and more. We've listed a few of the latest options here, including the L-MAX-AMP Heavy-Duty Seat Bolt Mount, which is compatible via direct connection or remote head bracket with devices having a 4-hole AMPS pattern mounting plate or bracket (IC-705, ID-5100, TM-D710, FT-7800, cameras, GPS devices, satellite radios, and more). The LM-802-705 Cup Holder Mount for IC-705 and IC-7100 is made to swivel into just about any position you desire. The LM-803EXP Cup Holder Mount comes with Lido's EXP-2 Express Plate that can accommodate the belt clip on any portable radio. The cup holder mount height can be adjusted from 6 1/2" to 8".

Enter "Lido" at DXEngineering.com for more details and the full lineup.

LDO-L-MAX-AMP	Heavy-Duty Seat Bolt Mount for IC-705, et. al.	**$99.95**
LDO-LM-802-705	Cup Holder Mount for IC-705/IC-7100	**$59.95**
LDO-LM-803EXP	Cup Holder Mount	**$29.95**
LDO-LM105EXT-2-6	Remote Head Unit Vent Mount Bracket, IC-2730, ID-5100	**$29.95**

Floor Mount



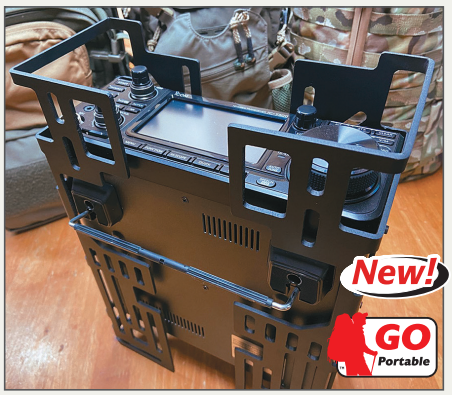
You simply attach the base of the flexible 22" gooseneck to your seat's mounting bolt to get a secure and versatile mount for your radio. From there, you can position the mount exactly where you want it. It uses the industry-standard AMPS mounting pattern to make installation a breeze.

LDO-LM-300 Floor Mount **$34.95**

⚠ **WARNING:** For Proposition 65 information, see p. 3

Tactical Protective Armor Modular Radio Mounting Frames

Armoloq makes tough-as-nails modular manpack solutions for hams. Developed from real-world military and amateur radio experience, the Tennessee-based company's premium mounting frames enhance the deployment and protection of radio equipment in any operating environment. Armoloq's Tactical Protective Armor (TPA)—a rugged, two-piece frame made from CNC laser-cut 1/8" 5052 aluminum—securely mounts to the radio's chassis. Finished with a matte black powdercoat, the TPA offers a wraparound design that shields both the radio body and control head while maintaining full access to controls and ports for many popular rigs. Grooves on the TPA take standard M-LOKs, allowing users to mount accessories. **Enter "LOQ" at DXEngineering.com for more details.**



LOQ-IC73009700BK

LOQ-ATD578UV3-BK	TPA, AnyTone AT-D578UVIII	**$155.00**
LOQ-DR-03T-BK	TPA, Alinco DR-03T	**$155.00**
LOQ-DR-06TA-BK	TPA, Alinco DR-06TA	**$155.00**
LOQ-DR-MD500T-BK	TPA, Alinco DR-MD500T	**$155.00**
LOQ-DR-MD520T-BK	TPA, Alinco DR-MD520T	**$155.00**
LOQ-IC-2730AB-BK	TPA, Icom IC-2370A/B	**$160.00**
LOQ-IC-705-905BK	TPA, Icom IC-705/905	**$195.00**
LOQ-IC-7100-BK	TPA, Icom IC-7100	**$160.00**
LOQ-IC-V3500-BK	TPA, Icom IC-V3500	**$150.00**
LOQ-IC73009700BK	TPA, Icom IC-7300/9700/R8600	**$215.00**
LOQ-FT-3185R-BK	TPA, Yaesu FT-3185R/3185RASP	**$150.00**
LOQ-FT-710-BK	TPA, Yaesu FT-710AESS/FIELD	**$215.00**
LOQ-FT-891-BK	TPA, Yaesu FT-891	**$160.00**
LOQ-FT-991A-BK	TPA, Yaesu FT-991A	**$215.00**
LOQ-FTDX10-BK	TPA, Yaesu FTDX-10	**$215.00**
LOQ-FTM-150R-BK	TPA, Yaesu FTM-150R/150RASP	**$185.00**
LOQ-FTM-510DR-BK	TPA, Yaesu FTM-510DR/510DRASP	**$185.00**
LOQ-FTX1-BK	TPA, Yaesu FTX1	**$275.00**

Armoloq Accessories



Engineered to be used with 15, 30, and 45 amp Anderson Powerpole® connectors, the M-APP-BK attaches directly to the TPA using the included hardware, providing a tidy solution for relocating and securely mounting Powerpoles. Cable Relocation Kits make it easy to relocate the RF connection to a more convenient position. They come with 12" coax jumper, mounting hardware, and either BNC or SO-239 bulkhead connector.

LOQ-M-APP-BK	Powerpole Mount for Armoloq TPA	**$15.00**
LOQ-BNCRA-BNCPKG	RF Cable Relocation Kit, Yaesu FT-817/818, BNC RA to BNC Straight	**$99.99**
LOQ-PL-PLRA-PKG	Cable Relocation Kit, PL-259 Right Angle to PL-259 Straight	**$99.99**
LOQ-PL-PLSTRTPKG	RF Cable Relocation Kit, PL-259 Straight Connectors	**$99.99**

ICOM *IC-V3500 VHF/FM Mobile Transceiver*



If you're looking for a rugged and easy-to-operate 2M/VHF rig, Icom's IC-V3500 was made with you in mind. It features a white, well-designed backlit LCD for enhanced readability and reduced eyestrain. The IC-V3500 transmits from 144-148 MHz at a full 65W of stable output power and receives from 136-174 MHz. Other perks include instant mute; loud, crisp speaker output with Audio Volume Boost; and new emergency safety functions. HM-133V hand microphone with keypad and DC power cable included.

ICO-IC-V3500	IC-V3500 VHF/FM Mobile Transceiver	**CALL/WEB**
ICO-HM-154	PTT Mobile Hand Mic, UP/DOWN Buttons Only	**$56.99**
ICO-OPC-440	Mic Extension Cable, 8-Pin Modular, RJ45	**$91.99**
ICO-OPC-589	Mic Adapter Cable, 8-Pin Modular to 8-Pin Round	**$45.99**

ICOM

Accessory	Part Number	Description	ICO-IC-2300H	ICO-IC-2730A	ICO-ID-5100A-D
Bracket	ICO-MBF-1	Switch Mount for Control Head		x	x
Cables	ICO-OPC-1132	Power Cable, DX, T-Style 2-Pin, 9.8'	x		x
	ICO-OPC-1156	Remote Separation Cable, 11.5'		x	x
	ICO-OPC-478UD	PC to Radio Programming Cable, USB	x	x	x
	ICO-OPC-589	Microphone Adapter Cable, 8-Pin Modular Plug to 8-Pin Round Receptacle	x	x	x
Mount Bracket	ICO-MBF-4	Mobile Transceiver Mounting Bracket		x	x
Bluetooth® Headsets	ICO-VS-3	Bluetooth Headset		x	x
	ICO-UT-133	Bluetooth Plug-In Module		x	x

KENWOOD *TM-D750A Digital Triband Mobile Transceiver Reservation*



Grab your spot in the queue to get Kenwood's TM-D750A triband mobile transceiver. The rig boasts 144/220/430 MHz coverage and a long list of benefits, including enhanced connectivity, integrated GPS and APRS, user-friendly design, high-quality audio thanks to built-in speakers with renowned Kenwood sound quality, dual SD card slots, and USB-C port for easy programming and data transfer. Key features include:

- APRS Protocol Compliant: Real-time two-way data communications for full-scale operations, featuring a wealth of displays and functions
- D-STAR Digital Protocol Compatible: Flexible D-STAR network access, including Bluetooth, USB, and Wireless LAN
- Built-in Wireless LAN: D-STAR network can be accessed directly and easily using Direct Mode without the need of external devices
- Reflector Terminal Mode: The built-in MMDVM command enables easy access to D-STAR reflectors via a Windows PC or Android device using a USB connection or Bluetooth
- Simultaneous Reception: Dual signal reception for digital voice and data expands your communications capabilities
- Built-in KISS TNC supports APRS operations with a standalone digipeater function. PC connection enables 1200/9600 bps packet communications and IGate station operation
- Remote operation panel with built-in speaker
- Built-in GPS module and patch antenna
- 3.45" TFT color LCD with high brightness and wide viewing angles
- USB-C port and microSD card slot are on both the remote head and RF deck respectively
- Powerful voice guidance features include four-step variable speed and over 900 phrases

Features and specifications included here are pre-release and subject to change.

When this new transceiver becomes available you will be entitled to a first right of refusal on a first come, first served basis. Once this transceiver has received FCC Type Certification and is offered for sale by Kenwood, with officially announced pricing, you will be contacted by DX Engineering to complete your order. Should you choose not to complete your TM-D750A order, your non-refundable deposit will be converted to a Gift Card that you can use toward any product offered by DX Engineering. Your reservation fee will be applied to the total TM-D750A purchase price at sale completion. When the transceiver becomes available, orders for the TM-D750A will be shipped in the order that reservations were received.

RSV-TM-D750A	Reservation for Kenwood TM-D750A	**$35.00**

YAESU

WiRES High Performance Digital and Analog Internet Linking Interface



This interface transforms RF communications to VoIP format, enabling long distance digital contact. WiRES is compatible with C4FM digital stations, plus traditional analog FM operation. You simply plug in to any Yaesu radio on the network and go without need for complicated router settings. It comes with all cables and set-up software. Read more about this system at DXEngineering.com.

YSU-HRI-200	WiRES High Performance Digital/Analog Linking Interface	**$159.99**

Lido

Bracket for Yaesu Mobile Radios



Made from lightweight, strong aluminum, this bracket is designed to adapt a required Pro-Clip mount or vehicle-specific mount (not included) for direct 5mm swivel stud attachment to Yaesu FTM-100, FTM-300, FTM-350, FTM-400 or FT-891 control heads. This mount can be attached to any Pro-Clip or other VSM mount with a 4-hole AMPS pattern and includes a double-T quick-release mounting system with the swivel. A mounting plate for the microphone is also included. The LMEXT01DELUX Extension Bracket allows you to mount two devices to one vehicle mount. Measuring 4 3/4" x 2 1/4", the bracket also lets you adjust device location for extra horizontal or vertical clearance.

LDO-LM-EXT-10	Bracket for Yaesu Mobile Radios	**$29.95**
LDO-LMEXT01DELUX	Extension Bracket	**$34.95**

⚠ **WARNING:** For Proposition 65 information, see p. 3

FTM-510DRASP & FTM-510DR C4FM Digital Dual-Band Mobile Transceivers

YAESU

Here's more exciting news for mobile operators, especially if you're a Yaesu enthusiast. This digital VHF/UHF FM rig shares the core features of the benefit-rich FTM-500DR digital mobile transceiver plus includes Yaesu's Super-DX and ASP (Audio Digital Signal Processor) unit. This function boosts receiver sensitivity for improved reception of weak signals. When the Super-DX key is pressed, the ASP unit is activated, ensuring comfortable audio quality for weak signals and extending the communication range. ASP AUTO mode is also selectable. In this mode, the ASP is automatically activated when the transceiver detects weak signals in FM analog mode. Further, the FTM-510DRASP provides upgraded intuitive and effortless operation thanks to improved Primary Memory Group (PMG) and Memory Auto Grouping (MAG) functionality over the FTM-500DR. Up to five VFO or Memory Channel frequencies can be assigned to the PGM and monitored, plus other additions. Other features include:

- 144/430 MHz, C4FM Digital, FM, AM (Air Band Receive) coverage
- True dual-band operation, C4FM/C4FM Digital D-D Dual Receive
- Advanced C4FM Digital Mode with AMS (Automatic Mode Select)
- Wideband reception
- VFO Band Skip Function (recall only the bands you use)
- 2.4" high-resolution full-color touch-panel display and demountable front panel controller
- Single-touch Spectrum Scope function
- Built-in 66ch high-precision GPS receiver and external GPS device connectivity
- Includes DTMF microphone, DC power cable, and bracket for main body



The FTM-510DRASP does not include built-in Bluetooth. By installing the optional Bluetooth unit (BU-5), hands-free operation is available with the SSM-BT20 or commercially available product. The FTM-510DR does not include the ASP unit.

Enter "FTM-510DR" at DXEngineering.com for more details.

YSU-FTM-510DRASP	Dual-Band Digital Mobile Transceiver	**CALL/WEB**
YSU-FTM-510DR	Dual-Band Digital Mobile Transceiver, w/o ASP	**CALL/WEB**

FTM-150RASP & FTM-150R VHF/UHF FM Mobile Transceivers

YAESU



The FTM-150RASP offers true dual-band operation, allowing two different receivers to operate on separate bands or within the same band (V+V, U+U, V+U, U+V). Its high-resolution graphical dot-matrix display provides a clear and crisp view of the radio's operating status. The front panel is detachable, and with the optional SJMK-500 swing-head, you can adjust the angle for easy mobile operation. The transceiver delivers a power output of 55W/VHF and 50W/UHF, with selectable options of 55W, 50W, 25W, and 5W. The heavy-duty heatsink with Funnel Air Convection Conductor (FACC) ensures stable and reliable TX power. The FTM-150RASP features a front speaker built into the control head, which, combined with the main body speaker, provides a total of 6W of high-quality audio (3W from the front speaker and 3W from the main body speaker). The volume level of the main body speaker is adjustable (0-100%) relative to the front panel speaker to suit user preferences.

- Super-DX and Audio Digital Signal Processor (ASP) boosts and enhances receiver sensitivity and improves weak-signal reception
- Up to 47 channels can be displayed with the Scope operation
- Up to 5 VFO or memory channel frequencies may be assigned to the PMG (Primary Memory Group)
- Up to 9 frequently used functions from the 62 menus can be registered and then easily selected
- Memory channels can be automatically grouped and recalled for each band
- Hands-free Bluetooth® is achieved by installing the optional BU-5 Bluetooth unit

Transceiver comes with DTMF microphone (SSM-85D), mobile mounting bracket, DC power cable with fuse, USB cable, spare fuse, and operating manual. The FTM-150R does not include the ASP unit.

Enter "FTM-150R" at DXEngineering.com for more details.

YSU-FTM-150RASP	2M/70cm Mobile Transceiver, 50W UHF/55W VHF	**CALL/WEB**
YSU-FTM-150R	2M/70cm Mobile Transceiver w/o ASP	**CALL/WEB**
NIF-MMFTM150RASP	FTM-150RASP Mini-Manual	**$23.95**

FT-891 HF/6M All Mode Portable Transceiver

YAESU



This popular rig covering HF and 6M features 100 watts of transmit power, a high-speed 32 bit DSP that successfully mitigates QRM, and the FT-891's circuit design and 3 Khz roofing filter that are indicative of Yaesu's legendary performance. The large screen and intuitive controls make the radio easy to operate. The FT-891 is rugged and compact, with a detachable faceplate for use in the field or in a vehicle.

YSU-FT-891	HF/6M All Mode Portable Transceiver	**CALL/WEB**
NIF-MM-FT891	FT-891 Mini-Manual	**$28.95**

DX ENGINEERING

Radio Side Rails for FT-891

GO Portable



These DX Engineering Radio Side Rails for the FT-891, FT-857, and FT-857D guard the front and rear panels whenever the radio is used for portable operations. They are made from a high-strength but lightweight impact-resistant black polymer, serving as handles at the front with outward flaring to retain normal access to the controls. Their curved shape at the back panel makes it easier to slip the transceiver into a backpack. Ideal for POTA activations as well as casual portable activities, the kit includes two side rails, four M4 thumbscrews, four M4 hex socket head screws, and a hex wrench so the rails can be attached for temporary or long-term use. Extra protection is provided by the included eight rubber bumpers.

DXE-RSR-891 Radio Side Rails for FT-891 **$79.99**

FT-891 Protective Case

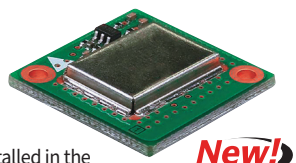


This custom-engineered, weather-resistant, hard-shell case specifically designed for the FT-891 provides peace of mind on POTA/SOTA adventures. The case delivers reliable protection from moisture, dust, and impact while preserving full access to all controls and connectors.

NCE-CH0010014 Case for FT-891 **$473.33**

YAESU

Audio Digital Processing (ASP) Plug-In Board for Yaesu Transceivers



New!

Boost the audio capabilities of your non-ASP Yaesu transceiver by installing the SPU-1 module. It can be installed in the FT-3165R, FT-3185R, FTM-150R, and FTM-150DR rigs to enhance receiver sensitivity to improve reception of weak signals and extend communication range.

YSU-SPU-1 Audio Digital Processing (ASP) Plug-In Board **$79.99**

To take advantage of our Beat-a-Price Guarantee, please Contact Us!

VHF FM Mobile Transceivers



YAESU

The compact and durable FT-3165RASP 65W and FT-3185RASP 85W 2M transceivers feature Yaesu's Super-DX and Audio Digital Signal Processor function that boosts receiver sensitivity for improved reception of weak signals. When the Super-DX key is pressed, the Audio Digital Signal Processing Unit (ASP) is activated, ensuring comfortable audio quality for weak signals and extending the communication range. The 65W model includes a new front speaker that delivers 5W of loud audio, specifically tuned for enhanced sound quality. The FT-3185RASP includes the Primary Memory Group and Customized Function List for easy access to favorite frequencies and functions. Both transceivers include:

- Efficient cooling
- Keypad entry of operating frequencies from the supplied DTMF microphone
- Versatile scan features such as Preferential Memory Scan, VFO Scan, and Priority Channel Scan
- CTCSS/DCS Encode/Decode
- 10 NOAA weather broadcast channels with weather alert

Transceivers come with DTMF microphone (SSM-85D), mobile mounting bracket, DC power cable with fuse, USB cable, spare fuse, and operating manual. FT-3165R and FT-3185R transceivers do not include ASP unit.

Enter "YSU-FT-31" at DXEngineering.com for more details.

YSU-FT-3165RASP	2M Mobile Transceiver, 5W/30W/65W	**CALL/WEB**
YSU-FT-3185RASP	2M MHz Mobile Transceiver, 5W/20W/50W/85W	**CALL/WEB**
YSU-FT-3165R	2M Mobile Transceiver w/o ASP	**CALL/WEB**
YSU-FT-3185R	2M MHz Mobile Transceiver w/o ASP	**CALL/WEB**
NIF-MMFT3165RASP	FT-3165RASP Mini-Manual	**$21.95**
NIF-MMFT3185RASP	FT-3185RASP Mini-Manual	**$21.95**

YAESU

Part Number	Description	YSU-FTM-510DRASP	YSU-FTM-310DRASP	YSU-FTM-150DRASP	YSU-FTM-510DR	YSU-FTM-310DR	YSU-FTM-150R
YSU-SSM-85D	DTMF Hand Microphone	x	x	x	x	x	x
YSU-SSM-BT20	Bluetooth Mini Headset	x	x	x	x	x	x
YSU-MEK-5	Microphone Extension Kit	x	x	x	x	x	x
YSU-SCU-58	Wires-X Connection Cable	x	x		x	x	
YSU-BU-5	Bluetooth Headset Adapter Unit	x	x	x	x	x	x
YSU-FVS-2	Voice Synthesizer Plug-In Module	x	x	x			
YSU-MMB-103	Dash Mount Bracket for Control Head	x	x	x	x	x	x

⚠ WARNING: For Proposition 65 information, see p. 3

AT-5888UV Dual-Band Commercial Mobile Transceiver

AnyTone New!



With 50W of power on VHF and 40W on UHF, the AT-5888UV delivers strong, clear communication, even in challenging environments. Designed for both hams and commercial users, it features VHF (136-174 MHz) and UHF (400-490 MHz) coverage; AM aircraft receive capability; multicolor display for excellent visibility; selectable power levels; 758 memory channels; four independent receiving bands for dual receive and dual output; the ability to program different tones per channel (CTCSS, DCS, 2-Tone, and 5-Tone); scan functions including CTCSS/DCS; and more. The transceiver comes with mounting bracket and hardware, DTMF microphone, fused DC power cable, and manual.

ANY-AT-5888UV Dual-Band Commercial Mobile Transceiver ..... **CALL/WEB**

FTM-310DRASP & FTM-310DR C4FM/FM 144/430 MHz Digital Mobile Transceiver

New!



YAESU

Take full advantage of this transceiver's impressive power output of 55W (VHF) and 50W (UHF), selectable power levels of 25W and 5W for flexible operation, and strong audio performance. It features a total output of 6W split between a 3W front speaker and 3W main-unit speaker complemented by Acoustic Enhanced Speaker System (AESS) technology. The SPU-1 Audio Signal Processing (ASP) module comes pre-installed, providing optimum audio clarity in noisy environments. Other features include:

- C4FM Digital Mode: Excellent digital audio quality
- Super-DX Audio Processing: Offers expanded FM communication range for enhanced weak-signal reception in both analog and digital modes
- Primary Group Monitoring (PMG): Up to five frequencies can be easily registered and monitored in real-time on a bar graph
- Dual Receive: Allows simultaneous C4FM/C4FM monitoring across various combinations, including V/U, V/V, U/V, and U/U
- Integrated GPS includes a 66-channel high-sensitivity receiver and APRS supported at both 1200bps and 9600bps for data communication
- WiRES-X is fully supported for digital voice and data networking
- 1,103 memory channels, Automatic Repeater Shift, NOAA weather and alerts (when available in service area), Bluetooth (requires optional BU-5 module for hands-free operation), and more. The FTM-310DR does not include ASP unit.

Enter "FTM-310DR" at DXEngineering.com for more details.

YSU-FTM-310DRASP C4FM/FM 144/430 MHz Transceiver..... **CALL/WEB**
YSU-FTM-310DR C4FM/FM 144/430 MHz Transceiver w/o ASP..... **CALL/WEB**

DR-735T 2M/70cm Mobile Transceiver

ALINCO



This versatile new radio from Alinco supports full duplex for true dual-band functionality and cross-band repeat. The DR-735 packs a wide range of adjustable parameters, from RF output to LCD screen color. The detachable controller allows for easy installation, while the heavy-duty base unit features plenty of integrated heat sinks for stability and long-term durability. It also boasts wide and narrow ceramic filters for narrow band operation. Find up-to-date specs at DXEngineering.com.

ALO-DR-735T 2M/70cm Mobile Transceiver ..... **CALL/WEB**
ALO-EDS-30 Front Control Unit Separation Cable Kit..... **$54.99**
ALO-EDS-8 Microphone Adapter for EMS-14 Desk Mic..... **$29.99**
ALO-ADUA38 DC Power Cable, Replaces PC-15B/ADUA-13 for 735T/Other Radios **$16.99**

DR-06TA VHF FM Transceiver

ALINCO



The upgraded DR-06TA builds upon Alinco's legendary series of mobile radios. It's loaded with features that you don't often find in this price range.

- 100 memory channels
- Theft alarm feature
- Ten autodial memories
- 7 character alphanumeric display
- Wide and narrow FM modes
- CTCSS, DCS encode and decode, DTMF encode and tone-burst

The 6M DR-06TA features 50 watts of output. Its optional EJ-41U TNC board permits 1200/9600 bps digital packet operation. The DR-06TA also has a handy front panel data port and rear panel DSUB9 computer connection. The radio comes with Alinco's commercial-grade backlit microphone with a metal connector.

ALO-DR-06TA 6M VHF FM Transceiver ..... **CALL/WEB**

DR-138TMKII 2M Mobile Transceiver

New! ALINCO



This 2M mobile rig delivers up to 70W of output power with selectable 70W/25W/10W settings. Enjoy exceptional clarity—even in noisy environments—with advanced noise reduction and voice commander technology. The durable transceiver features an integrated cooling fan for optimal performance during extended operation, 200 memory channels, wideband FM broadcast receive, and air band capabilities. Plus, take advantage of its large, bright LCD; easy-to-operate backlit keys; and many calling features, such as built-in 2-Tone, 5-Tone, 50 CTCSS, 114 DCS, 4 Tone-burst tones, and DTMF/ANI decode. It includes EMS-74 DTMF microphone, mounting bracket with screws, DC power cable, microphone holder, and manual.

ALO-DR-138TMK2 2M Mobile Transceiver..... **CALL/WEB**

ALINCO

DR-MD520T Advanced Tri-Band Mobile DMR Transceiver



This DMR Tier I and II tri-band transceiver (144/220/440MHz) from Alinco is loaded with features for today's serious operators, including 55W (VHF), 40W (UHF) maximum output power; 1.77" color LCD display; 4,000 memory channels; up to 500,000 digital contact lists; use of DVSI's AMBE+2 vocoder for crystal clear DMR digital audio for ham radio applications with no noise or fading, even in low-lying areas; built-in GPS receiver to support APRS; 2W audio output power to ensure loud and crisp receive audio; automatic repeater roaming; X-band repeat; analog uplink/digital downlink or vice versa; FM broadcasting receiver with 100 memory channels and VFO; 10,000 talk groups; AM aircraft bands receive capabilities; and much more. The DR-MD520T comes with EMS-88 hand microphone with built-in remote control keypad, mobile bracket, mounting bracket kit, DC cable, MicroUSB data cable, and mic hanger.

ALO-DR-MD520T Tri-Band Mobile Transceiver ..... **CALL/WEB**

DR-MD500T Advanced Dual-Band VHF/UHF DMR Part 90 Mobile Transceiver

ALINCO



Another stellar rig in Alinco's mobile radio lineup, the DR-MD500T is loaded with features and benefits that make this a great addition to any transceiver collection. Capable of operating in digital and analog mixed modes in VFO or memory mode, this DMR Tier I and II rig features large 1.77" color LCD display; crystal clear DMR digital audio for use in noisy environments; 2W audio output to ensure loud, crisp receive audio; 55W output power on VHF and 40W on UHF; up to 4,000 memory channels; 10,000 TalkGroups and up to a 300,000 contact list; automatic repeater roaming; X-band repeat, analog uplink/digital downlink or vice versa; communication recording in digital mode; and much more. The radio comes with EMS-88 handheld DTMF keypad microphone, mobile bracket, mounting bracket kit, mic hanger, DC cable, and USB data cable. **What do hams say? Five Stars: "This gem has 300,000 contacts memory so you can load every DMR ID in the world today with 30% more room to spare...The sound quality is great...The radio is compact, has a cooling fan and tons of features including an FM radio."**

ALO-DR-MD500T VHF/UHF DMR Part 90 Mobile Transceiver..... **CALL/WEB**

DR-CS25T 50W 222-225 MHz Compact Mobile Transceiver

ALINCO



Enjoy smooth operation, large back-lit display and back-lit microphone keys, excellent transmit/receive audio, and plenty of high-tech features in the ultra-compact DR-CS25T VHF mobile transceiver from Alinco. Take advantage of the rig's 200 PC-programmable channels; selectable output power of 50/25/10W; variety of built-in calling features: 2-Tone/5-Tone, 51 CTCSS, 1024 DCS, 4 Tone-burst tones and DTMF/ANI decode; EMS-74 DTMF microphone that enables direct frequency entry and remote control; various scan modes; and more. Also comes with mounting bracket with hardware kit and DC power cable.

ALO-DR-CS25T 222-225 MHz Compact Mobile Transceiver..... **CALL/WEB**

DR-CS10 2M FM Compact Mobile Transceiver



This ultra-compact 60W 144-148MHz FM rig comes loaded with high-tech features plus the smooth operation inherited from other Alinco transceivers. Take advantage of its large, bright backlit LCD display; multi-function backlit DTMF microphone with direct frequency entry and remote control; alphanumeric tags; excellent transmit/receive audio; 200 PC-programmable channels; Built-In, 2-Tone/5-Tone, 51 CTCSS, 1024 DCS, 4 Tone-Burst Tones, and DTMF/ANI Decode; selective calling features; various scan modes; selectable output power (10W/25W/60W); a wide range of selective calling features; and more. Comes with mounting bracket/hardware and DC power cable.

ALINCO

ALO-DR-CS10HT 2M FM Mobile Transceiver..... **CALL/WEB**

Check out our YouTube channel for in-depth tech tips and product demos!

⚠ **WARNING:** For Proposition 65 information, see p. 3

If you're ready to take your amateur radio operations up a notch without breaking the bank, AnyTone's range of transceivers and accessories offer the perfect combination of value and performance. Whether you're operating on-the-go or from the shack, AnyTone transceivers are an ideal solution for any DXer who prioritizes rugged build quality, a rich feature set, versatility and ease-of-use. DX Engineering carries handheld and mobile transceivers from AnyTone, along with microphones and battery packs.

AnyTone

AT-D578UV III Plus Tri-Band VHF/UHF/DMR Mobile Transceiver



This well-built mobile transceiver comes loaded with ham-friendly benefits whether you're on the go or in the shack. It includes wideband full duplex receive capabilities (V+V,U+U&V+U), separate volume controls for channels A/B, built-in DMR repeater roaming, built-in Bluetooth connectivity for devices like the included Bluetooth PTT button, as well as the ability to pass Bluetooth audio through your vehicle's speakers. Features include selectable power outputs from 55W to 1W, color-customizable 1.77" color TFT display for easy day or night viewing, with selectable single or dual channel display; digital and analog APRS; transmit and receive GPS data location services for EMCOMM and other uses, such as coordinating hikers along a trail; 4,000 memories; 10,000 talk groups; up to 500,000 contact list entries; and built-in cross-band repeat. The AT-D578UV comes with mounting bracket and hardware, remote control hand microphone with keypad, USB programming cable and downloadable software, and DC power cable. The Pro model (AT-D578UV3PRO) does not include some features of the Plus model, including APRS receive/transmit capabilities and AM Air Band receive.

Enter "AnyTone Tri-Band" at DXEngineering.com for more details.

ANY-AT-D578UVIII	AnyTone VHF/UHF/DMR MobileTransceiver, Plus	**CALL/WEB**
ANY-ATD578UV3PRO	AnyTone VHF/UHF/DMR MobileTransceiver, Pro	**CALL/WEB**
ANY-BT-01	Programmable Bluetooth Speaker Mic	**$149.99**

AnyTone

AT-D878UV II Plus Dual-Band DMR Handheld Transceiver



This rugged 2M/70cm rig includes DMR (Tier I/II) digital communications with support for traditional analog FM operation. Users can set frequency and transmit parameters without having to depend solely on preprogrammed channels, making the radio easier to use. Output power is easily configurable in four increments from 1-7 watts (2M) and 1-6 watts (70cm). It features a GPS receiver; 500,000 digital contact list; up to 5 DMR IDs; roaming which allows you to select a reachable repeater from a predefined list; integrated Bluetooth and Bluetooth PTT; 2 GB of internal memory; and RX and TX APRS on FM or DMR, with APRS setting accessible from the menu. The transceiver comes with antenna, Li-Ion battery, charger, AC adapter, belt clip, programming cable, and wrist strap. The basic version (AT-D878UV2) has a 200,000 digital contact list, APRS transmit-only capabilities; optional Bluetooth via add-on board, and 1 GB of memory.

ANY-AT-D878UVP2	AT-D878UV II Plus Dual-Band DMR HT	**CALL/WEB**
ANY-AT-D878UV2	AT-D878UV II Basic Dual-Band DMR HT	**CALL/WEB**
ANY-BAT-878	AnyTone Battery Pack, Li-Ion, 3100 mAh, 7.4 V	**$32.99**
VLT-SPM-50	Speaker Mic for Anytone HT	**$29.99**

ALINCO

DJ-MD5XLT and DJ-MD5FXT VHF/UHF Dual-Band DMR Handheld Transceivers



The easy-to-use, 5 watt 2M/70cm DMR DJ-MD5XLT comes with built-in GPS along with APRS support and automatic repeater roaming. Other features include large full-color LCD display; 5/2.5/1.0/0.2W selectable output power; up to 4,000 memory channels; TDMA real two-slot DMR; FM Broadcast receive; built-in VOX; digital voice recorder; up to 500,000 digital contact lists; mixed mode capability; crystal clear DMR digital audio for use in noisy environments, security applications, or for repeater coverage areas, with no noise or fading, even in low-lying areas; ample audio output power for outstanding receive audio; durable IP54-rated polycarbonate body; and 1700 mAh Li-Ion battery. The more affordable DJ-MD5FXT boasts many of the features of the DJ-MD5XLT, including automatic repeater roaming and large full-color display, but does not include built-in GPS with APRS support. **Enter "ALO-DJ-MD5" at DXEngineering.com to compare models.**

ALO-DJ-MD5XLT	Dual-Band DMR HT	**CALL/WEB**
ALO-DJ-MD5FXT	Dual-Band DMR HT	**CALL/WEB**
ALO-EMS-76	Speaker Microphone	**$42.99**
ALO-EME-56A	Earphone/Microphone	**$36.99**
ALO-EBP-87	Replacement Battery Pack, Li-Ion 1500 mA	**$34.99**
ALO-EBP-106	Replacement Battery Pack, Li-Ion 3250 mAh	**$42.99**
ALO-EDC-314	Rapid Charger for EBP-106	**$21.99**

To take advantage of our Beat-a-Price Guarantee, please Contact Us!

AnyTone

AT-D168UV VHF/UHF/DMR Handheld Transceiver



Compact, reliable, and ready for any adventure, this user-friendly 2M/70cm HT provides clear and consistent communication when you're on the go, at an event, or operating in an emergency. Offering both analog and Digital Mobile Radio capabilities, the D168UV includes four power levels (0.2W/1W/2.5W/5W); free Windows software programming package; support for CTCSS/DCS/, DTMF 2-Tone/5-Tone, QDC encode and decode functions; 500K contact list capacity; built-in dual-function USB-C port for programming and charging; 1.77" TFT color LCD; voice recording; firmware updates; and more. Includes 7.4 V1800mAh and 2600mAh batteries, a standard 5" antenna and 15" whip antenna, charging/programming cable, wall adapter for charging, and charging cradle.

ANY-AT-D168UV	AnyTone VHF/UHF/DMR Handheld Transceiver	**CALL/WEB**

AnyTone New!

AT-D890UV Dual-Band VHF/UHF/DMR Handheld Transceiver



The AT-D890UV comes loaded with the features you want in a smartly designed HT, including built-in Bluetooth, GPS, and APRS capability; AM Air Band receive; cross-band repeater mode; analog scrambler/compander functions for reduced noise and improved audio clarity; 2 GB memory capacity; and a vibrant 1.77" color TFT display that provides easy access to 4,000 channels and up to 500,000 digital contacts with AES-256 encryption. Plus, True Dual Receive allows you to monitor two frequencies simultaneously. The HT is powered by a 3100 mAh battery with USB-C charging. The HT also comes with dual-band antenna, desk charger and AC adapter, belt clip, Bluetooth PTT button, programming cable, and wrist strap.

ANY-AT-D890UV	VHF/UHF Handheld Transceiver	**CALL/WEB**

AnyTone New!

AT-D168 70cm Handheld Transceiver



Compact, reliable, and ready for adventure, this HT delivers clear and consistent communication whether you're on the move, at an event, or part of an emergency response. Covering 70cm (420-450 MHz), the radio keeps you connected to the people who matter most, offering seamless communication with a rugged build that is designed to last. Features include analog and DMR capability, USB C connection for programming and charging, free Windows software programming package, three power levels (4.5W/2.5W/0.5W), 256 channels, and these accessories: 7.4V 1800 mAh battery, belt clip, antenna, charging programming cable, wall adapter for charging, and charging cradle.

ANY-AT-D168	70cm Handheld Transceiver	**CALL/WEB**

CHELEGANCE
JNCRadio

Handheld Accessories



NCE-TKS004-O1



NCE-TKS003



NCE-TKS001



NCE-TKS002

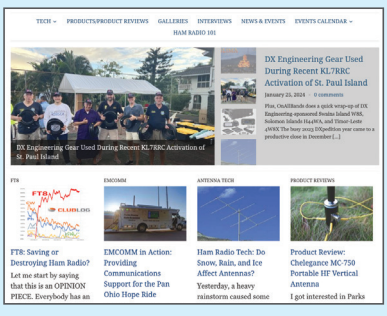
Chelegance offers a nice selection of accessories for handheld transceivers, both in the vehicle and on the go. Choose from the TKS001 Suction Cup Vehicle Mount with 360° rotation; the adjustable TKS002 Portable Multi-Function Protective Bag with Velcro strap for securing your HT or HT mic vertically or horizontally; the TKS003 Metal Hook Bracket for Handheld Mics featuring adhesive backing for no-drilling-required mounting; the TKS004 Hook Belt Clip for Icom Handheld Mics; and the TK3004-O1 magnetic version.

NCE-TKS001	Adjustable Suction Cup Mount for HTs	**$25.50**
NCE-TKS002	Adjustable Portable Multi-Function Protective Bag	**$12.00**
NCE-TKS003	Metal Hook Bracket for Handheld Mics	**$12.00**
NCE-TKS004	Hook Belt Clip for Icom Handheld Mics	**$30.00**
NCE-TKS004-O1	Hook Belt Clip for Icom Handheld Mics, Magnetic	**$30.00**

ON ALL BANDS

Check out our blog, ***OnAllBands.com***, for articles on upcoming DXpeditions, what's new in contesting, digital operations, and a range of other topics.

Want more? We've got loads of tech videos and interviews on the DX Engineering YouTube channel. Of course, when you want personal attention, our experts are only an email or phone call away.



TH-D75A
Tri-Band 144/220/430 MHz
D-STAR/APRS Handheld Transceiver

KENWOOD



This much-anticipated, high-performance rig from the HT specialists at Kenwood builds on the success of the TH-D74 by adding advanced features and even more functionality. Users can enjoy a significant leap forward thanks to simultaneous reception of two D-STAR signals; Reflector Terminal Mode for accessing D-STAR reflectors; enhanced voice guidance (four variable speed levels, 1-7 variable volume levels, support for call sign reading with phonetic codes); built-in GPS; digipeater functions; an APRS standalone digipeater, which allows APRS coverage to be expanded even in mountainous locations; Bluetooth headset PTT support for enhanced hands-free operation; inclusion of a Type-C USB port; and an ergonomic design for comfortable operating. All this plus features you've depended on from Kenwood: superb voice clarity, with built-in audio equalizer to suit user preferences; simplex, single repeater relay, and inter-repeater gateway options; real-time messaging between stations running APRS; maximum storage of 100 stations and much more. Antenna, 1820 mAh Li-Ion battery, power adapter, and belt clip included.

Enter "TH-D75A" at DXEngineering.com for more details.

KWD-TH-D75A	Tri-Band D-STAR/APRS HT	**CALL/WEB**
KWD-KNB-75LAM	1820 mAh Li-Ion Battery Pack	**$119.99**
KWD-KSC-25LSK	Rapid Charger	**$59.99**
KWD-KMC-45D	Speaker Mic	**$107.99**
NIF-MM-THD75A	Mini-Manual for TH-D75A	**$35.95**

DJ-W70HT 8W 2M/70cm Dual-Band
Handheld Transceiver

ALINCO **New!**



This HT delivers professional-grade performance with an 8W power output on both VHF and UHF. Built in an IP67-rated dust- and water-tight body, this rugged radio is ready for any environment. Standard features include CTCSS, DTMF, DCS encode/decode, and tone burst for easy repeater access and selective calling. It comes with full-color TFT display, direct frequency input, eight-character alphanumeric channel labels, and 200 memory channels that store complete operating parameters. You also receive Li-ion battery pack, rapid charger, AC adapter, antenna (SMA-P), belt clip, USB-C cable, and manual.

ALO-DJ-W70T	DJ-W70HT 8W Dual-Band Handheld Transceiver	**CALL/WEB**
ALO-EMS-76	Handheld Speaker Microphone	**$42.99**
ALO-EBP-124	Replacement Li-ion Battery	**$45.00**

GMRS 5W UHF
Handheld Transceiver

ALINCO



This rugged, compact, and versatile IP54-weatherproof GMRS general-purpose two-way radio is a great way to keep in touch with friends and family at sporting events, theme parks, the mall, while camping, and during travel adventures. The FCC Part 95-certified handy-talkie includes 128-channel capability; 5W GMRS, 2W FRS output; LCD screen; GMRS repeater-readiness; CTCSS/DCS group talk tones; emergency call function; hands-free VOX; FM radio; 1700mAh Li-Ion battery; and more. While this radio shares the same channels as the Family Radio Service (FRS), a license is required to operate the DJ-G46T because it offers more power and range over traditional FRS models. Accessories also work with select other Alinco HT models.

ALO-DJ-G46T	5W GMRS UHF HT	**CALL/WEB**
ALO-EME-56A	L-Type Earphone/Mic	**$36.99**
ALO-EDH-40	Mobile DC Cigarette Adapter	**$19.99**
ALO-EMS-76	L-Type Speaker Mic	**$42.99**

IC-T10 VHF/UHF Dual-Band FM
Handheld Transceiver

ICOM



Based on Icom's commercial-grade IC-F1000T radios and reminiscent of the T70 HTs, this direct conversion wideband VHF/UHF portable handheld provides a stable 5W RF output on 2 and 70cm meters, along with FM broadcast receive capabilities of 88-108 MHz. Features include 200 channel memory, priority scan, 1500mW AF output, and internal VOX and CTCSS/DTCS/DTMF encoding. The IC-T10 comes with 2280 mAh Li-Ion battery, rapid charger, AC adapter, FA-S270C dual-band antenna, and belt clip.

ICO-IC-T10	IC-T10 VHF/UHF FM HT	**CALL/WEB**
ICO-HM-158LA	Handheld Speaker-Microphone	**$57.99**
ICO-BP-280	Replacement Li-Ion Battery Pack, 3.6 V 3,280 mAh	**$119.99**
NIF-MM-ICT10	Nifty IC-T10 Mini Manual	**$21.95**

ID-52A PLUS Multi-Function
D-STAR VHF/UHF Handheld Transceiver

ICOM



Building on the success of Icom's ID-52A (see above), the PLUS version includes all the functionality of its predecessor and takes this popular HT to the next level with these added features for even more success at home or in the field:

- Enhanced Bluetooth: Connect your Android in Terminal and Access Point Modes
- Dual operation of Terminal Mode and simplex/repeater operations
- Updated USB-C charging/data port for faster connections and charging

Additionally, its large 2.3", 230 X 280 pixel color display offers more information and an improved interface with an industry-first color waterfall band scope for a VHF/UHF portable. The integrated speaker provides a booming 750mW output so you never miss a contact. Further, integrated Bluetooth allows for connectivity with a wide variety of external audio devices. No additional board required to function with the optional VS-3 Bluetooth Headset.

ICO-ID-52APLUS	ID-52A PLUS VHF/UHF D-STAR Handheld Transceiver	**CALL/WEB**
DXE-MIC-ID51-52	Speaker Mic	**$81.99**
NIF-MM-ID52APLUS	ID-52A/E Plus Mini-Manual	**$35.95**

ID-50A VHF/UHF Multi-Function
D-STAR Handheld Transceiver

ICOM



This 2M/70cm digital transceiver packs a lot of functionality and fun in a compact HT. Take advantage of the rig's band scope and waterfall displays that make it easy to find active channels; dual-watch function that doubles QSO opportunities to monitor VHF/VHF, VHF/UHF, and UHF/UHF bands at the same time; a built-in GPS receiver that displays current grid square information and can be used for Position Auto Reply, Near Repeater Search, and GPS log functions; and D-STAR, which opens up a world of possibilities to make local and worldwide contacts. Other features include IPX7 waterproof rating, multi-function USB-C port, reception of FM and Air bands, 500 memory channels, microSD card slot, and the ability to import photos into the ID-50A from a smart device (with available software download). The HT comes with Li-Ion 1880 mAh battery pack, antenna, belt clip, and hand strap.

ICO-ID-50A	ID-50A Dual-Band Digital HT	**CALL/WEB**
ICO-LC-202	Carrying Case	**$32.99**

These accessories work with the ID-50A, ID-52A, and ID-52A PLUS HTs

ICO-HM-183LS	Waterproof Speaker Mic	**$127.99**
ICO-BP-307	Li-Ion 3150 mAh Battery	**$155.99**
ICO-BC-202IP3L	Rapid Desktop Charger	**$69.00**
ICO-BC-228	Desktop Charger AC Adapter	**$91.99**
ICO-CP-25H	Cig Lighter Charger Cable for Rapid Charger	**$33.99**
ICO-CP-12L	Cig Lighter Charger Cable w/ Noise Filter	**$46.99**
NIF-MM-ID50A	Min-Manual for ID-50A	**$35.95**

IC-V86 VHF FM Portable
Handheld Transceiver

ICOM



The Icom IC-V86 144 MHz FM Handheld Transceiver takes the FM/2 meter portable to a new level. Enjoy 1,500 mW of audio power, 7W of RF output power, more transmit coverage, and longer operational capabilities thanks to the unit's new 2250mAh Li-Ion battery pack. Add to that an improved chassis design and speaker, the ability to easily hear incoming signals in noisy environments, compact size (2.3" × 4.4" × 1.2") and ultra-rugged construction, and you're looking at a next-class HT. Other features include 200 memory channels, six scan edge channels and one call channel; durable BNC female antenna connector; integrated VOX function; and IP54 waterproof rating. Comes with battery pack, desktop charger, belt clip and rubber whip antenna.

ICO-IC-V86	VHF FM Portable Handheld Transceiver	**CALL/WEB**
ICO-BC-193-12	Desktop Charger	**$93.99**
ICO-BP-263	Alkaline Battery Case, Holds 6 AAs	**$36.99**

DX ENGINEERING

Handheld Speaker Microphone for Icom D-STAR HTs



Available exclusively in North America through DX Engineering, this ruggedly built IP-67-rated remote control microphone is compatible with Icom's ID-31/50A/51/52 D-STAR series radios. It features higher audio output without the need for a powered internal amplifier, delivering louder and more intelligible audio in a larger housing compared to Icom's OE mini-mic. Made to professional-grade specifications, it comes with front-mounted pushbutton controls (Channel Up/Down and Icom A/B Function), a unique wind baffle for clearer transmitting, ergonomic design for operating with gloves on, and a clothing mic clip that provides 360 degree rotation.

DXE-MIC-ID51-52	Speaker Mic	**$81.99**

Check out our YouTube channel for in-depth tech tips and product demos!

⚠ **WARNING:** For Proposition 65 information, see p. 3

YAESU

FT5DR 2M/70cm C4FM/FM Digital Handheld Transceiver



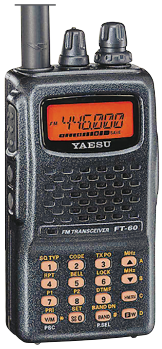
The full-featured FT5DR dual-band HT delivers all of the functionality and benefits of its sister model (FT3DR) plus some significant upgrades that make it stand out from its worthy predecessor. Take advantage of its comfortable, compact size (2.44" W x 3.94" H x 1.34" D) and full-flat back body that provides excellent grasp; a reliable 5 watts of RF power output and upgraded and noticeably louder 1 watt of audio power; rugged and shock-resistant construction with rubber protection on the bottom corners of the main body; upgraded waterproof rating of IPX7; high-resolution display highlighting the frequency of the operational band; three touch panel keys and seven operation keys below the display for intuitive operability; and the new TOUCH & GO operation that allows users to immediately start communications on an often-used frequency.

Other features include: Real Dual Band Operations (V+V, U+U, V+U, U+V) available with two independent receivers; many C4FM digital communication functions; wireless hands-free operation using the optional Bluetooth® headset (SSM-BT10); built-in high-sensitivity 66 channel GPS receiver; included 2,200mAh high-capacity Li-Ion battery pack (SBR-14LI); and much more.

Enter "FT5DR" at DXEngineering.com for more details.

YSU-FT-5DR	FT5DR 2M/70cm C4FM/FM Digital HT	**CALL/WEB**
YSU-SHC-40	Soft Carrying Case	**$39.99**
YSU-SSM-BT20	SSM-BT20 Bluetooth Headset	**$49.99**
YSU-SHB-26	Replacement Quick-Release Holster	**$29.99**
YSU-SCU-57	Wires-X Cable Kit w/ SCU-55/CT-44 Audio Cables	**$54.99**
NIF-MM-FT5DR	Nifty FT5DR Mini-Manual Reference Guide	**$31.95**

FT-60R 2M/70cm MHz Dual-Band Handheld Transceiver



Armed with wide-band (108-520, 700-999.99 MHz) receiver coverage, Yaesu's FT-60R is an excellent option for listening in the field. It packs 5 watts of power in a small package. Stash it in your glovebox or Go-Kit. What makes this HT unique is Yaesu's Emergency Automatic ID feature originally developed for search-and-rescue missions. When active, it causes the radio of the recipient (who is presumably lost or incapacitated) to transmit, so search units can listen for that radio.

YSU-FT-60R	144/430 MHz Dual-Band Handheld Transceiver	**CALL/WEB**

YAESU

FT-65R VHF/UHF Handheld Transceiver



Small and lightweight yet darn-near bulletproof, Yaesu built this handheld to stand up to harsh use. Covering the 2 meter and 70cm bands, the FT-65R's RF power is selectable in 0.5, 2.5 and 5 watt steps, and the front firing speaker is backed by a full watt of audio amplification. This versatile rig features a programmable VFO scan, priority channel scan, WX channels/WX alert, LED flashlight, and CTCSS/DCS. Programming advanced features from a PC is simple. It comes with a 1,950 mAh Li-Ion battery providing over nine hours of operating time, and a rapid charger—all at a very attractive price tag.

YSU-FT-65R	2M/70cm Handheld Transceiver	**CALL/WEB**
YSU-SBR-25LI	Battery Pack, 1,950 mAh	**$59.99**
YSU-SBR-26LI	Battery Pack, 2,500 mAh	**$69.99**
NIF-QR-FT65R	Nifty Quick Reference Card	**$9.95**

YAESU

FT-70DR C4FM FDMA FM Dual-Band Handheld Transceiver



Packing Yaesu's exclusive System Fusion digital protocol, the FT-70DR gives you both analog and digital capabilities with a very attractive price tag. Using Yaesu's clever Automatic Mode Select (AMS) function, the FT-70DR will automatically switch transmit modes depending on the received signal. A multi-color LED light provides quick, intuitive indication of the radio's current mode.

This handheld also incorporates a digital group monitor function, which allows operators to create and communicate with specific digital groups. The FT-70DR operates on the 2M/70cm bands with a 108 to 579.995 MHz extended receive range. The radio has up to 5 watts (selectable) of RF transmit power.

YSU-FT-70DR	C4FM FDMA FM Dual-Band HT	**CALL/WEB**
YSU-SAD-25B	Replacement Charger	**$39.99**
YSU-SBH-28	Rapid Charger	**$37.99**
YSU-SBR-24LI	Li-Ion Battery Pack	**$59.99**
YSU-SHC-27	Soft Carrying Case	**$24.99**
NIF-MM-FT70DR	Nifty Mini Manual, FT-70DR	**$24.95**

ALINCO

DJ-VX50T Dual-Band Handheld Transceiver



Made to professional-grade standards, this 2M/70cm HT from Alinco is loaded with a range of features for reliable, rugged operation: FM transmit coverage from 144-148 and 420-450 MHz; built-in receive capabilities including semi-duplex dual band, VHF AM aircraft, FM broadcast and NOAA Weather radio; 5W (VHF) and 4W (UHF) output; three-color selectable display; 200 memory channels; scanning modes; and a variety of tone bursts for repeater access or selective calling. Rated IP67 for dust and water protection, the compact DJ-VX50T comes with a high-capacity 1800 mAh Li-Ion battery pack, antenna, rapid charger and belt clip.

ALO-DJ-VX50T	Dual-Band Handheld Transceiver	**CALL/WEB**
ALO-EBP-101	1800 mAh Li-Ion Battery Pack	**$39.99**
ALO-EDH-44	Mobile DC PowerAdapter	**$19.99**

YAESU

VX-6R 2M/70cm Heavy-Duty Tri-Band Ultra-Compact FM Handheld Transceiver



Ideal for severe field use, the VX-6R can withstand vibration, impacts and immersion in water. The simplified controls make it easy to access the radio's impressive list of features, including Emergency Automatic ID, VFO scanning and a battery saver/battery wake-up. Add the optional weather sensors and you'll get automatic weather updates as well. And expanded receive range covers 10 NOAA WX channels, shortwave broadcast and marine channels. It's small too, about the size of a deck of playing cards.

YSU-VX-6R	2M/220/70cm MHz Heavy-Duty Dual-Band Ultra-Compact FM HT	**CALL/WEB**
YSU-SBR-40LI	Li-Ion Battery Pack, 1,370mAh	**$105.99**
YSU-FBA-23	Battery Case, Fits 2 AA Batteries	**$59.99**
NIF-MM-VX6R	Mini-Manual for VX-6R	**$24.95**

YAESU

FT-4XR VHF/UHF Handheld Transceiver



For crisp and clear audio, 5W of reliable output power, and rugged construction, Yaesu's FT-4XR VHF/UHF Dual Band FM Handheld Transceiver is a small package that delivers big time—and at a budget-friendly price. The unit's 1.4" front speaker boasts 1W of powerful audio, and its versatile scanning capabilities include VFO, Memory, Programmable Memory, Memory Bank, and Dual Receive. It comes with Selectable Frequency Step from 5 kHz; two quick programmable keys; keypad/PTT lockout to prevent accidental changes or transmissions; and 200 memory channels, three home channels and 10 pairs of PMS channels. Enjoy 15 hours of operating time with the supplied 1,750mAh Li-Ion battery pack. A 3.5 hour rapid charger is also included.

YSU-FT-4XR	VHF/UHF Dual-Band FM Handheld Transceiver	**CALL/WEB**
YSU-SBR-28LI	Li-Ion Battery Pack, 1,750mAh	**$49.99**
NIF-MM-FT4XR-VR	Nifty Mini Manual, FT-4XR/VR	**$21.95**

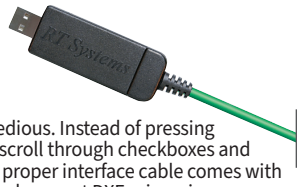
YAESU

Accessory	Part Number	Description	YSU-FT-60R	YSU-VX-6R	YSU-FT-65R	YSU-FT-4XR	YSU-FT-5DR
Coax Adapter	YSU-CN-3	Coaxial Cable Adapter, BNC (F) to SMA (M)	x	x			x
AC Adapter	YSU-SAD-24B	AC Adapter	x	x			
Cables	YSU-SDD-13	DC Cable, Car Cigar Lighter Plug with Noise Filter	x	x			x
	YSU-E-DC-6	DC Cable, with Plug	x	x			
	YSU-CT-27	Interface/Cloning Cable					
	YSU-CT-44	Mic Adapter Cable, 2-conductor (F) to TRRS Plug	x				x
	YSU-SCU-36	Cloning Cable			x	x	
	YSU-SCU-59	Programming Cable			x	x	
Speaker Mics	YSU-SSM-17A	Speaker Mic	x				x
	YSU-MH-73A4B	Speaker Mic, Waterproof		x			
	YSU-SSM-17H	Speaker Mic with Swivel Clip & 3.5mm Audio Jack		x			
	YSU-SSM-17B	Speaker/Mic 2-Pin			x	x	
	YSU-SSM-512B	Earpiece Microphone, VOX			x	x	
Battery Pack	YSU-FNB-83	Battery Pack	x				
Battery Case	YSU-FBA-25A	Battery Case	x				

FREE standard shipping on qualifying orders! See page 68 for details and exceptions.

⚠ **WARNING:** For Proposition 65 information, see p. 3

RT SYSTEMS
RADIO PROGRAMMING MADE EASY



Programming/Cloning Software and Cables

RT Systems makes programming your radio much less tedious. Instead of pressing buttons and reading small LCD screens, you can simply scroll through checkboxes and enter information with your keyboard. When noted, the proper interface cable comes with the software. The cables are also available separately. Find more at DXEngineering.com.

Part Number	Radio	Cable	Price
RTP-APK-VX50-USB	Alinco DJ-VX50	USB-29A	**$48.99**
RTP-APK-CS25-USB	Alinco DR-CS25	USB-38	**$49.00**
RTP-APK-CS10-USB	Alinco DR-CS10	USB-38	**$49.00**
RTP-DMR-D578-USB	Anytone AT-D578	USB-RT49	**$35.00**
RTP-DMR-D878-USB	Anytone AT-D878	USB-74	**$35.00**
RTP-WCS-705-USB	Icom IC-705	USB RT-49	**$35.00**
RTP-WCS-2730-USB	Icom IC-2730A/B	USB-29A	**$48.99**
RTP-WCS-7100-RT	Icom IC-7100	USB-RT41	**$35.00**
RTP-WCS-7300-USB	Icom IC-7300	USB-RT42	**$34.99**
RTP-WCS-905-USB	Icom IC-905	USB-RT65	**$35.00**
RTP-WCS-9700-U	Icom IC-9700	—	**$35.00**
RTP-WCS-R8600USB	Icom IC-R8600	USB-RT42	**$48.95**
RTP-WCS-V86-USB	Icom IC-V86	USB-29A	**$48.99**
RTP-WCS-D50-USB	Icom ID-50	USB-RT65	**$35.00**
RTP-WCS-D52APUSB	Icom ID-52A Plus (does not work with ID-52A)	USB-RT65	**$34.99**
RTP-WCS-D5100USB	Icom ID-5100	USB-29A	**$48.99**
RTP-WCSD5100DATA	Icom ID-5100A	USB-RTS05	**$48.99**
RTP-WCS-R15-USB	Icom IC-R15	USB-RT65	**$35.00**
RTP-WCS-T10-USB	Icom IC-T10	USB-29A	**$49.00**
RTP-WCS-V3500USB	Icom IC-V3500	USB-29A	**$49.00**
RTP-KRS-D75-U	Kenwood TH-D75A	—	**$25.00**
RTP-KRS-D75-USB	Kenwood TH-D75A	USB-RT65	**$35.00**
RTP-KRS-590-USB	Kenwood TS-590	USB-63	**$48.99**
RTP-ADMS-1J-USB	Yaesu FT-60	USB-57A	**$48.99**
RTP-ADMS-65-USB	Yaesu FT-65	USB-55	**$48.99**
RTP-ADMS-4B-USB	Yaesu FT-857/897	USB-62	**$48.99**
RTP-ADMS-891-USB	Yaesu FT-891	USB-A to USB-B	**$34.99**
RTP-ADMS-991A-U	Yaesu FT-991/A	—	**$24.99**
RTP-ADMS-991AUSB	Yaesu FT-991/A	USB-A/B	**$49.99**
RTP-ADMS-VX6-USB	Yaesu VX-6	USB-57B	**$48.99**
RTP-YPS-DX10-USB	Yaesu FTDX-10	USB-B	**$35.00**
RTP-YPS-DX101USB	Yaesu FTDX-101D/MP	USB-A to USB-B	**$35.00**
RTP-YPS-FTX1-USB	Yaesu FTX-1	RT65 USB-A to USB-C	**$35.00**
RTP-YPS-FT5D-USB	Yaesu FT-5DR	USB-68	**$49.00**
RTP-YPS-FT710USB	Yaesu FT-710	USB-RT42	**$35.00**
RTP-YPS-4XV-USB	Yaesu FT-4X/V	USB-55	**$48.99**
RTP-YPS-M150-USB	Yaesu FTM-150RASP	USB-77	**$48.99**
RTP-YPS-M300-USB	Yaesu FTM-300DR	USB-77	**$48.99**
RTP-YPS-M310DUSB	Yaesu FT-M-M310D	USB-77	**$48.99**
RTP-YPS-M500-USB	Yaesu FTM-500DR	USB-77	**$48.99**
RTP-YPS-M510-U	Yaesu FTM-510DR/DE	—	**$25.00**
RTP-YPS-M510-USB	Yaesu FTM-510DR/DE	USB-77	**$49.00**
RTP-YPS-M6000USB	Yaseu FTM 6000	USB-77	**$48.99**
RTP-YPS-3165-USB	Yaesu FT-3165RASP	USB-29F	**$48.99**
RTP-YPS-3185-USB	Yaesu FT-3185RASP	USB-RT65	**$35.00**

Extension Speaker

bhi Noise Cancellation Products

This 20W, 4 Ω speaker is useful as an extension speaker for your bhi in-line modules, or for any radio in your shack or mobile rig. Measuring 4.9" W x 5.1" H x 2.9" D, the LSPKR speaker comes with a 6.5' audio cord and adjustable mounting bracket that can be used as a stand.



BHD-LSPKR Extension Speaker..... **$49.99**

PWRspkr Amplified Speaker

WEST MOUNTAIN RADIO

Packing 15 watts of amplification, this speaker is great for noisy shacks, loud mobile installations or radios with weak audio output. The PWRspkr is tailored to the 300-3200 Hz range for the human voice sweet spot. It features a 4.25" speaker, requires 13.8VDC, and includes a 6' audio cable and mounting bracket.



WMT-58406-947 15 Watt Amplified Speaker..... **$79.95**

Need help with your project? Call the tech line at 330-572-3200!

ICOM

IC-R15 Wideband Handheld Receiver



Here's a perfect way for both newbies and experienced operators to discover the exciting world of radio reception. With a frequency range of 108-500 MHz and 88-108 MHz, the lightweight, state-of-the-art IC-R15 lets you receive a diverse array of radio signals, including VHF aeronautical radio in AM; amateur radio on 2M and 70cm; weather, railway, marine, or regional broadcast stations in AM/FM; and wideband FM (WFM) from 76.0–500 MHz. It features a user-friendly design; large, easy-to-read color LCD; simple graphical icon menu; intuitive controls; waterproof IPX7-certified pro-grade construction; and an included flexible rubber antenna that can be removed to allow you to connect an external antenna on a roof or balcony for extended signal reception. Other features include:

- Ability to scan at a rate of 150 channels per second
- Built-in Bluetooth for hands-free listening
- BP287 3280 mAH Li-Ion rechargeable battery pack with a battery life of up to 13 hours of continuous use
- Convenient charging on the go using the supplied USB Type-C cable
- Dualwatch function that supports simultaneous receiving of various radio signals from different sources. Receive on the "A-band" and simultaneously scan the "B-band."
- In FM/FM-N modes, the VSC (Voice Squelch Control) function supports automatically skipping undesired signals (e.g., control signals, unmodulated signals).
- USB/SD card storage
- Selectable tuning steps (13 types)
- RF attenuator and Automatic Noise Limiter function
- Included antenna, battery pack, belt clip, USB cable, and hand strap

Enter "IC-R15" at DXEngineering.com for more details.

ICO-IC-R15 Wideband Handheld Receiver, 108-500 MHz ..... **CALL/WEB**

FDM-DUOR SDR Receiver



Following the success of the FDM-DUO transceiver, ELAD introduced the FDM-DUOR—a user-friendly SDR shortwave receiver that can be operated like a traditional radio with controls including a large VFO knob, dials for volume and filters, and pushbuttons for frequently used settings. On the inside, operators benefit from a fast AD converter and powerful digital processing capabilities to ensure excellent reception. Covering 9 kHz-54 MHz, the device also comes with 10 slots for pre-selector boards which users can populate with ELAD high-pass and band-pass filters. Its two antenna inputs are selected by programmable band edges, ensuring the correct antenna and filter module are used based on the frequency. A TCXO provides good frequency stability, with the oscillator's side band noise being a low -130-136 dBc. An external 10 MHz precision clock reference can also be used as the master clock. When used with a computer, its SDR capabilities provide a waterfall display, decoding, recording, and more. Receiver requires a 13.8VDC power supply, with a maximum current intake of approximately 500mA. The optional 4 Ω SP-1B speaker includes a five-stage noise-reduction function and choice between flat mode (no filtering) and use of an active amplified filter of 300 Hz-3 kHz.

ELAD

ELD-FDM-DUOR-B FDM-DUOR SDR Receiver, 9 kHz-54 MHz..... **$1,043.99**

ELD-SP-1B DSP Speaker for FDM-DUO/FDM-DUOR **$156.99**

FDMS3 Wideband Receiver

This SDR receiver offers an impressive list of features, including 24 MHz bandwidth that can be scanned simultaneously, allowing up to four receivers to operate at the same time; 9 kHz-108 MHz frequency range (even higher with an optional downconverter); variable sampling rate from 98-122 MHz depending on the band; two switchable antenna inputs for shortwave; and flexible selection of the clock source. **For many more details of the FDM-DUOR and FDMS3, enter "ELAD Receiver" at DXEngineering.com.**

ELD-FDMS3-TCXO FDMS3 Wideband Receiver, 9 kHz-108 MHz..... **$1,015.99**

ELD-TM-2 Control Console for Perseus/Duo/SDR/Rig Control Programs **$289.99**

TM-2 Console for SDR Radios



This remarkable desktop USB control console provides instant and simultaneous display and control of many SDR receiver or transceiver programs, freeing up the monitor for logging, contest, or digital mode program display. Developed specifically for SDR users who prefer the tactile operation of knobs and buttons, the TM-2 console (5.63" W x 3.07" H x 5.32" D, 1.72 lbs.) allows the manual manipulation of SDR or rig control programs without touching a mouse or watching a monitor. The ELAD TM-2 controller, formerly known as the WoodBoxRadio Tmate 2, is connected by USB to the computer (the unit is powered via USB). Depending on software, it controls typical radio front panel controls and menu functions. Selectable color backlit LCD shows the current frequency, signal level S meter, mode, and much more. All controls are programmable; there are six pushbuttons for often-used functions like mode, step width, filter, preamp, attenuator, mute, etc. Weighted metal knobs include a large "VFO" frequency control. Two smaller detent knobs are assignable for AF Gain, RF Gain, Filter Width, and most other functions, as desired. Encoders are also pushbuttons to toggle the knob to other assignable functions. The TM-2 case is metal, giving it weight with a solid touch and feel with a 45° angled panel. Special drivers are not required on recent OS. A USB A to USB B cable is included.

ELD-TM-2 Control Console for Perseus/Duo/SDR/Rig Control Programs..... **$289.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

microtelecom



SDR Receivers

Based on exceptional direct sampling architecture, the well-established FDM-PERSEUS is a VLF through HF 10 kHz-30 MHz receiver featuring a 14-bit 80 MS/s analog-to-digital converter, a high-performance FPGA-based digital downconverter, and a 480 Mbit/s high-speed USB 2.0 PC interface. Its bandwidth-monitoring capabilities and high level of reception make it ideal for SWLs. Its analog front end has been smartly designed, including a 0-30 dB attenuator in 10 dB steps, a 10-band preselector, and a high-dynamics preamp with a third order intercept (TOI) that exceeds 30 dBm. The resulting dynamics are greater than 100 dB in SSB and 105 dB in CW. The PERSEUS receiver can also be used in broadband mode as a spectrum analyzer with a 10 kHz-40 MHz band and a dynamic range of over 100 dB. The FDM-PERSEUS comes with 5VDC power supply, USB stick with software, USB cable, and BNC to UHF F adapters.

The FDM-PERSEUS22 4-Channel Direct Sampling Receiver adds advanced capabilities such as dual continuous frequency coverage from 10 kHz-225 MHz with typical image rejection greater than 70 dB. Featuring excellent dynamic range on four independent receivers, two VLF-HF (10 kHz-70 MHz) and two VHF (10 kHz-225 MHz), each receiver has a dedicated SMA female antenna input. All four receiver channels are synchronously sampled by a high signal-to-noise ratio 14-bit ADC, processed by a software-defined digital downconverter and FPGA implementation. The four dedicated output channels are routed to the host PC via the USB 3.0 controller, achieving synchronized true diversity reception and wide bandwidth IF applications. Supported modes are AM, LSB, USB, CW, CWrev, RTTY, RTTYrev, FM, WFM (RDS in development), SAM, QSAM, DAB+ and IQ. Presently available sample rates are 250, 500, 1,000, and 2,000 kSps, with the maximum span currently displayed at 1,600 kHz. Software features a simple and intuitive graphical user interface (the Windows software can be implemented on other operating systems: Linux, MacOS, and Android). **For more details about both receivers, enter "Perseus" at DXEngineering.com.**

MIC-FDM-PERSEUS	SDR Receiver, 10 kHz-30 MHz	**$1,149.99**
MIC-FDMPERSEUS22	4-Channel Direct Sampling Receiver, 10kHz-225MHz;	**$2,579.99**
ELD-TM-2	Control Console for Perseus//SDRs/Rig Control	**$289.99**

IC-R8600 Wideband Digital Receiver

ICOM



The software-designed IC-R8600 covers an impressive 0.01-3000 MHz, and will receive a wide range of analog and digital modes, like D-STAR, P25, NXDN, and dPMR. The IC-R8600 packs several improvements, like a larger 4.3" touchscreen with a fast-moving spectrum scope and waterfall display. Advanced FPGA processing provides enhanced signal clarity and accuracy. I/Q signal output allows use of third-party SDR software and external decoding. The SP-39AD speaker, designed specifically for use with the RG8600, features exceptional sound plus distinctive styling to exactly match your superb R8600 receiver. A nice Icom design touch was to include a dedicated R8600 power supply right in the speaker.

ICO-IC-R8600	Wideband Digital Receiver	**CALL/WEB**
ICO-SP-39AD	Receiver Speaker for IC-R8600	**$315.99**
ICO-AD-55NS	Power Supply for IC-R8600	**$95.99**

IC-R6 SPORT Communications Receiver

ICOM



Carry a mammoth frequency range in the palm of your hand—from 0.100-1309.995 MHz! That includes utility and government communications, amateur radio, AM, FM, and shortwave broadcast stations. A clever voice squelch control makes it easy to pick out the voices from the cacophony of data bursts and beacons. It has 1,300 memory channels and robust scanning capabilities.

The IC-R6 Sport has a built-in ferrite bar antenna for AM broadcast and a large, backlit LCD screen. It's powered by 2 AA batteries (not included) or via optional power cords.

ICO-IC-R6SPORT	IC-R6 Sport Communications Receiver, Black	**CALL/WEB**

DJ-X100T Wideband Multi-Mode Handheld Receiver

ALINCO



Durable and versatile, the DJ-X100T covers from 30-470 MHz and 76-108 MHz (WFM only), with the low VHF to UHF bands optimized for consistent sensitivity across the entire range. Users benefit from clear audio through DSP, various reception modes via SDR configuration, intuitive interface, easy-to-read hi-res color TFT LCD, IP67 rating, 999-channel memory system, USB Type-C port for charging or connecting to a PC, and GPS-enabled selective scanning of nearby stations. In addition to analog AM/NAM/FM, NFM, and FM modes, the unit supports popular digital modes including DMR, D-STAR, and C4FM. Receiver comes with Li-ion battery pack, USB adapter, USB Type-C cable, whip antenna, belt clip, and manual.

ALO-DJ-X100T	Wideband Multi-Mode Handheld Transceiver	**CALL/WEB**

New!

To take advantage of our Beat-a-Price Guarantee, please Contact Us!

RigExpert



Fobos Wideband General Purpose SDR Receiver

This SDR receiver from RigExpert offers exciting functionality designed to elevate your radio communication experience. This high-performance Fobos comes encased in a sleek blue aluminum body. Equipped with high-speed USB 3.0, the receiver ensures quick data transfer and easy device connectivity. The compact (5.1" W x 2.3" H x 0.6" D) and EMI-shielded construction further enhances its durability, making it ideal for a variety of challenging environments. Beyond ham radio (HF+VHF/UHF), the receiver offers a wide range of applications, including SIGINT/COMINT; spectrum surveying; wideband waveform digitizing; performing tests and measurements; wireless, cellular, IoT, media streaming; radio astronomy; and HF/VHF telemetry. Features include:

- Continuous frequency coverage from 100 kHz-25 MHz (direct sampling) and 25 MHz-6 GHz (double conversion heterodyne)
- Two coherent auxiliary direct sampling RX channels for HF band
- Dual conversion, two HF channels, 14-bit ADC, 50 MHz IQ rate
- Uninterrupted recording and real-time analysis
- Low-pass filter for HF1 and HF2 designed for a cutoff frequency of 24 MHz
- Minimized influence of parasitic harmonics and improved resistance to noise
- Up to six lines of user-defined low-speed general purpose digital output
- Robust USB 3.0 Type-B socket
- AM/FM broadcast band, aircraft band, weather band coverage
- Software support compatible with Windows and Linux platforms

Enter "Fobos" at DXEngineering.com for more details.

REU-FOBOS-SDR	Fobos General Purpose SDR Receiver	**$439.00**

RigSelect
MULTIPLE RADIOS, FAST EASY SWITCHING



RigSelect Pro Transceiver Switch and SO2R Controller

The RigSelect Pro boasts an extensive array of capabilities that make it possible to implement an award-winning SO2R station where any two of up to four connected radios can be selected as the SO2R pair—and in any order. Switch one set of headphones, microphone, paddle/key, and PTT line among any of four radios. RigSelect uses quiet solid-state relays for all audio switching, which makes switching extremely fast. Telecom-quality relays are used for all mic, key, and PTT circuits. Additionally, the compact RigSelect Pro (2.8" H x 7.7" W x 6.7" D, 2.76 lbs.) features a crisp color TFT display for status and menu operations. Other features include:

- Direct support for Open Two Radio Switching Protocol (OTRSP)
- Multiple configurations for SO2R audio management, such as Split-Stereo (both earpieces switched to the receiving radio stereo outputs during transmit), Blank with Blend (allows a lower volume audio signal from the transmitting radio to still be heard in that radio's earpiece), and others. RigSelect implements the audio switching capabilities popularized in the YCCC SO2R Box with some improvements.
- Independent ground prevents ground loops and RFI
- Two separate USB ports—one providing two standard FTDI USB 2.0 virtual serial ports for WinKeyer control and OTRSP control, the other a virtual serial port for the optional RigSelect Windows App for PC configuration and firmware updates
- Headphone circuits isolated by audio transformers with separate ground by default
- Powerful computer control capability via an internal command set which is available on the App connector. In addition to all the OTRSP commands, there are 65 different RigSelect commands available
- Genuine WinKeyer 3.1 chip which can be independently enabled or bypassed for different radios
- Extruded aluminum chassis with aluminum front and rear panels for complete shielding
- Solid-state relays for soundless switching within microseconds for lightning-quick SO2R audio operation
- Powered by an external 6-15VDC input; max current draw of 350 mA

Enter "RigSelect" at DXEngineering.com for more details.

RIG-RIGSELECTPRO	RigSelect Pro Transceiver Switch/SO2R Controller	**$859.99**

Ultra Wide-Band Coverage SDR Receiver

DXPATROL



Using cutting-edge software-defined tech, the DX Patrol Ultra Wide-Band Coverage SDR Receiver gives you incredible 100 kHz-2 GHz receive range capability with extraordinary dynamic range. But the bigger surprise is the unit's size—it fits in the palm of your hand. The unit connects to your PC or Android-powered tablet or smartphone via USB to deliver an intuitive display and crystal-clear audio reception.

The DX Patrol has two separate SMA connectors to add your own HF and VHF antennas. It uses software that's completely free and setup is straightforward. A Micro-USB cable and SMA-to-BNC adapter are included.

DXP-DXPATROL	Ultra Wide-Band Coverage SDR Receiver	**$134.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

KiwiSDR2 Independent SDR Network Receiver



Created by New Zealand ham John Seamons, ZL4VO/KF6VO, the easy-to-use and feature-rich KiwiSDR2 is a standalone SDR receiver that operates from 10 kHz-30 MHz, encompassing VLF to HF bands. This latest version includes an enhanced RF front end and the addition of a digital attenuator. Users can expect improved processing speed and reception over its predecessor. The KiwiSDR2 attaches to your local network and is accessed with a browser application on the LAN or via the Internet. The SDR comes pre-installed with the OpenWebRX web interface and features an integrated GPS receiver (used, among other functions, to calibrate the SDR frequency). Most other SDRs generate raw IQ data and need to be connected directly to a PC or laptop running OS-specific, installed software. The KiwiSD2R supports up to four simultaneous connections, each with their own independently controlled audio and waterfall channels. Up to four users can log on to the KiwiSDR2 at the same time and work completely independently of each other over the entire 30 MHz bandwidth. Setup process involves connecting the GPS antenna, power leads, an Ethernet cable to the home network and an antenna. Once powered on, users can access the device via a local IP or Internet proxy. Other features include:

- 14-bit ADC for excellent dynamic range
- BeagleBone Green board preloaded with Debian 11.9 and all necessary SDR software
- Sturdy metal case with cooling holes for heat dissipation
- USB ports, an Ethernet connection, and 5.0VDC input
- 3 SMA sockets for the GPS antenna, external clock input, and RF input from the antenna
- Switching power supply shield to minimize RF noise, gas discharge tube for surge protection, and 0-31.5 dB electronic attenuator for handling strong signals

DC power cable or supply not included. Requires 5VDC at 1.5A minimum to the 2.1mm input.

KWI-KIWISDR2 KiwiSDR2 0-30MHz Independent SDR Network Receiver; **$519.99**
KWI-SDRPROTECT Receive Surge Protector for KiwiSDR **$35.99**

microHAM Digital Interfaces

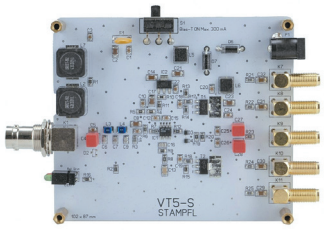


The innovators at microHam have two digital mode interfaces that make great additions to any shack. The micro KEYER III Digital Mode and Radio Control Interface is the world's first USB interface to feature high dynamic range and 24-bit audio processing for all modes. This single-radio, all-in-one USB interface supports digital, voice, and microphone switching in one box and features two separate channels supporting transceivers with two audio outputs (main and sub-receivers). With a single USB port, it works with any Windows-based logging or control program, as well as Linux and macOS, for CW, voice, FSK, and digital operation. The lightweight and portable DXP Radio Interface is a transceiver-to-computer USB device that features quiet operation; easy configuration; jumper-free rig control interface for CAT, CI-V with a built-in level converter for many brand-name rigs; and 24-bit audio ADC and DAC for high-quality digital operation. CW operation is supported by the WinKey CW Keyer (version 3.1) developed by K1EL. Its 24-bit USB sound card provides improved signal-noise ratio, greater dynamic range (>105dB), lower noise floor, and improved weak-signal decoding compared to standard 16-bit audio interfaces or USB-enabled transceivers.
Enter "MOH Digital USB" at DXEngineering.com for more details.

MOH-MK-3 micro KEYER III Digital Mode/Radio Control Interface..... **$699.99**
MOH-DXP-DXP DXP Portable Digital Mode/Radio Control Interface **$429.99**

STAMPFL HAM ELECTRONICS New!

VT5-S Active Receiver Multicoupler for SWL



This multicoupler was developed according to a design by Günter Fred Mandel, DL4ZAO, for SWL covering 9 kHz-52 MHz. It distributes a near 0-Ω star point (HF antenna input) to five outputs with a passive distribution network. This decoupling of individual outputs prevents connected devices from influencing each other. Enjoy high signal stability, minimal noise, and strong isolation between outputs. Additional safeguards include ESD protection on the output and short-circuit protection for the Bias-T, which can remotely power active antennas. Power supply not included. **Enter "KOC" at DXEngineering.com for more details.**

KOC-STAM-VT5-S Active Receiver Multicoupler **$309.71**

Digital Mode Interfaces, Kits & Digital Mode Transceiver Interface Cables

New! digirig ham radio equipment



DRG-DR-891

If you've ever been frustrated dealing with a mess of wires for your digital operations, Digirig has the solution. They offer a wide selection of devices, kits, and accessories designed for simplified digital amateur radio communication. The super-compact Digirig Mobile unit (1.5" x 1" x 1") has a built-in USB hub that includes a CM108-based sound card for audio processing and a CP2102-based serial port bridge for CAT control and programming. What sets the Digirig Mobile apart is its single USB connection to the computer, consolidating all digital functions. Units work with Windows, macOS, Linus Systems (including Raspberry Pi), and Android tablets and smartphones. Complete kits come with the correct transceiver cable and compatible USB-C cable. Circuitry also supports hardware PTT switching, serial level conversion, and signal filtering and attenuation.
Enter "Digirig" at DXEngineering.com for more details and available items.

Digital Mode Interfaces & Kits

DRG-BFENG-MBL-KT Baofeng, Kenwood, AnyTone HTs w/K1 ..... **$99.99**
DRG-DR-891 Yaesu FT-891, Mini-DIN-6/USB-B/3.5mm TRS **$79.99**
DRG-ELEKX-MBL-KT Elecraft KX2/3, 3.5mm TRS **$99.99**
DRG-FT8XX-MBL-KT Yaesu/Kenwood/Icom, 6-Pin & 8-Pin Mini-DIN/3.5mm; **$99.99**
DRG-G90-MBL-KT Xiegu G90/G106/X5105, Mini-DIN-8/3.5mm TRS **$99.99**
DRG-KWD-MLB-KIT Kenwood, 13-Pin DIN/DB9/3.5mm **$99.99**
DRG-YSU10CATMBKT Yaesu, 10-Pin Mini-DIN/3.5mm **$99.99**
DRG-YSURJ12MBLKT Yaesu, RJ12 Mic Jack/3.5mm TRS Speaker Connector; **$99.99**
DRG-YSUHT-MBL-KT Yaesu HTs, 3.5mm TRRS **$89.99**

Digirig Lite

This more basic version of the original Digirig DR-891 delivers the same high-quality audio codec but without a serial port. It comes with the Digirig Lite interface dongle, USB-C to USB-A adapter, and silicone dust cap. Transceiver cables not included.

DRG-DRLITE Digirig Lite, 3.5mm TRRS Connector **$39.95**

Digirig Mobile

DRG-DRMOB Select Yaesu FT-8xx/Xiegu/HTs/Any Radio w/out CAT Support **$49.97**
DRG-DRMOB-CIV For Icom Transceivers **$49.97**
DRG-DRMOB-RS232 For Elecraft KX & Kenwood w/DB9 Connector **$49.97**

Transceiver Interface Cables

These relaxed-length 24" cables can stretch up to 72" and feature ferrite beads on both ends for RFI suppression. Cables are coiled except for the FT-891 model.

DRG-9600BMOBILE 9600 Baud Audio/PTT to 6-Pin Mini-DIN for Icom/Kenwood **$19.97**
DRG-BFENGMOBILE Black K1 to Audio/Green K1 to Serial Socket for Most HTs w/3.5/2.5 Stereo K1 ..... **$29.97**
DRG-FT65MOBILE Audio/PTT Cable to Dual 3.5mm/2.5mm Connector for Yaesu 65/R/25R/4XR/4VR **$19.97**
DRG-FT8XXMOBILE Cable Set, 6-Pin Mini-DIN to Audio/PTT & 8-Pin Mini-DIN to Serial CAT **$29.97**
DRG-G90MOBILE Cable Set, 8-Pin Mini-DIN to Audio/PTT & 3.5mm TRS to Serial CAT for Xiegu G90 ..... **$29.97**
DRG-TS480MOBILE Cable Set, Serial RS-232 for CAT to DB9 & Audio/PTT to 6-Pin Mini-DIN for Kenwood TS480/ Yaesu FTDX-1200/3000/FT450D **$29.97**
DRG-ICOMRJ45MBLE Audio/PTT to RJ45 and 3.5mm TRS for Icom IC-2300H/2730A/V3500/ID-5100A **$29.97**
DRG-YAESUHTMOBLE 3.5mm TRRS to Audio for Most Yaesu HTs **$17.97**
DRG-YAESUVXMOBLE Audio/PTT to 3.5mm TRRS for Yaesu VX-6/VX-7/FT-270 ..... **$17.97**
DRG-YSU10CAT 9600 Baud Audio/PTT to 10-Pin Mini-DIN for Most Yaesu FTM Transceivers **$29.97**

Smartphone & Filtered USB Cables

DRG-PTTCABLE VOX PTT for Smartphones/Tablets & Tablet to Transceiver, 4 Conductor 3.5mm TRRS M/F, 11" **$19.97**
DRG-USB-AC USB-A to USB-C, RFI Filtered, 15.57" to 39.37" **$9.97**
DRG-USB-CC-SHORT USB-C to USB-C, RFI Filtered, 14" **$9.97**

USB Isolator

This is a compact solution for removing ground-loop-induced hum and interference by isolating your PC from transceivers and audio devices. It also provides a protective barrier for your computer when using USB-connected test equipment like oscilloscopes and debuggers.



DRG-USBICO USB Isolator **$19.90**

Organizer Pouches for Digirig Mobile & Accessories

DRG-POUCH-BLACK Special Ops Black **$9.95**
DRG-POUCH-DESERT Desert Storm **$9.95**
DRG-POUCH-FOREST Forest Green **$9.95**



Check out our YouTube channel for in-depth tech tips and product demos!

⚠ WARNING: For Proposition 65 information, see p. 3



Parametric Receive Audio System (PRAS)

Using three separate equalization controls, Heil's Parametric Receive Audio System (PRAS) enables operators to enjoy clearer voice articulation in receive audio through more precise adjustments of midrange frequencies. The unit allows operators to adjust the parametric midrange filter from 400 Hz through 4 kHz, and control the presence of these midrange frequencies plus or minus 15 dB. Combined with a low-frequency filter down to 160 Hz, and a high-frequency filter up to 6 kHz, the PRAS provides operators unparalleled control and quality of their receive audio. Heil's two-way Powered Speaker (HPS-5), sold separately, is specifically designed for use with PRAS. The speaker features a low-distortion, highly efficient Class D 24 watt amplifier that drives the specially designed 5" low-frequency driver with a 3" magnet mounted in a resonant sealed enclosure. A passive extended crossover drives a 2" high-frequency tweeter.

HLS-PRAS-EQ Parametric Receive Audio System **$269.00**
HLS-HPS-5 Powered Speaker for Parametric Receive Audio System **$199.00**

ParaPro EQ20



BHD-EQ20B

Any audio engineer will tell you how valuable a parametric EQ can be. It allows you to boost/cut specific frequencies so you can fine-tune your audio on the fly for better voice copy. bhi's new ParaPro units combine a robust parametric EQ with a 20 watt audio amplifier. The controls are intuitive, allowing you to easily and quickly adjust the ParaPro's frequencies—a great contesting companion.

bhi offers a ParaPro with a built-in adjustable noise canceling DSP unit, which will automatically filter out background noise and enhance the human voice. You can also get the ParaPro with Bluetooth® capability that lets you turn your wired speakers into wireless speakers. It's a smart way to clean up your shack's wiring and open up some unique installation possibilities.

BHD-EQ20 ParaPro EQ20 ..... **$295.99**
BHD-EQ20B ParaPro EQ20 with Bluetooth **$329.99**
BHD-EQ20-DSP ParaPro EQ20 with DSP Unit **$439.99**
BHD-EQ20B-DSP ParaPro EQ20 with Bluetooth and DSP Unit **$499.99**

25W Extension Speaker



This robust 8 Ω two-way passive extension speaker is ideal for use with bhi in-line DSP modules or as a standalone external speaker for your radio. It can be connected directly to a transceiver or to DSP units with audio power amplifiers such as the bhi ParaPro EQ20. The EXTSPK25 features a 4" bass driver and a 1" tweeter for excellent audio. It connects directly to most transceiver and receiver standard mono external speaker outputs or to DSP unit speaker outputs. Order two for stereo, dual-channel transceivers. Measures 6.30" W x 7.87" H x 5.90" D.

BHD-EXTSPK25 25W Extension Speakers **$74.99**

NES 10-2MK4 DSP Noise Canceling Speaker



Upgraded from bhi's popular MK3 model, the MK4 noise elimination speaker handles up to 5W high level input from any radio that has a high level audio output. The speaker effectively removes unwanted background noise and interference from noisy voice and radio communication channels to leave clear, intelligible speech and CW signals. This compact unit (4.33" W x 2.56" H x 2.17" D) features noise canceling capabilities from 8-40 dB, tone reduction up to 65 dB, significantly improved signal to noise ratio, and eight levels for filtering QRM/QRN. It's suitable for both your base station and mobile setup in a vehicle. **Enter "NES10" at DXEngineering.com for more details.**

BHD-NES10-2MK4 DSP Noise Canceling Speaker **$207.99**

In-Stock Parts Typically Ship The Same Day.

Wolf-100 WOLFWAVE Advanced Audio Processor



Connect the transformative SOTABeams' WOLFWAVE Advanced Audio Processor to your headphones or speaker and you may wonder how you've operated all these years without it—especially if you have struggled with hearing loss. Easily accessed menu selections presented on the OLED screen let you choose how you wish to enhance your radio listening experience. Functions and features include:

- Fully adjustable audio band pass filtering from 50 Hz to 5 kHz, instantly adjustable for voice, data and CW
- Bright, clear, real-time audio spectrum display shows what's happening in your radio's audio passband
- Adaptive DSP noise reduction with 100 levels, plus advanced control functions
- Adaptive DSP tone eliminator gets rid of annoying carriers, but leaves the desired signals
- Menu-selectable age-related hearing loss correction using ISO 7029:2017 median hearing-loss curves for males or females
- Memories to easily store and recall your favorite settings
- Audio test generator including two-tone test mode, sine, square and triangular wave
- Experimental CW regenerator to enjoy noise-free CW QSOs
- User updatable firmware by USB—Add a Morse Code Reader!

Note: Available on firmware-updated units, the WOLFWAVE's start-up sound, based on "WW" on Morse code, was composed by professional musician, Chris Rolinson, G7DDN.

For many more details of this versatile and powerful device, enter "WOLF" at DXEngineering.com.

SBM-WOLFWAVE WOLFWAVE Advanced Audio Processor **$409.99**

Compact In-Line DSP Noise Eliminating Module



Take high-performance noise canceling into the field with his battery-powered option. It delivers bhi's latest noise suppression technology, and is small and rugged enough to be tucked into a duffle bag. The module is designed to work with headphones, but may also work with a compact, portable external speaker. A front-panel knob allows you to fine-tune your noise cancelling level.

BHD-COMPACTINLNE Compact In-Line DSP Noise Eliminating Module **$291.99**

Dual In-Line DSP Noise Eliminating Module



Many new radios (including most SDRs) have stereo audio capability. bhi's Dual In-Line accepts two separate audio signals to allow for stereo output. It can also be fed by two different signals, which is handy if you run multiple radios in your station. The dual outputs also mean you can monitor two separate signals at the same time. It also has separate 7W audio and headphone outputs. It's an ideal DSP noise cancelling module for club events, Field Day, or multi-radio DX stations.

BHD-DUAL-IN-LINE Dual In-Line DSP Noise Eliminating Module **$289.99**
BHD-DL-STD1 Dual In-Line Mounting Stand **$17.99**

DSP Noise Canceling In-Line Module



Hear more clearly with this audio DSP unit that cleans up noisy signals and delivers more intelligible audio across all bands. Just use the included 3.5mm male mono patch cable to connect the in-line module between your radio and external speaker. Using simple controls, users can select eight noise-canceling levels via a rotary switch (8-40 dB). Other features include the latest DSP noise-canceling technology, tone reduction up to 65 dB, 5W audio amplifier, audio input overload indicator, and audio bypass feature which routes the signal directly through to the loudspeaker when the unit is switched off. The In-Line Module works on most radios and receivers.

BHD-IN-LINE DSP Noise Canceling In-Line Module **$275.99**

DESKTOP-MKII DSP Noise Canceling Speaker



The MKII model includes the latest bhi DSP noise-canceling technology for even better receive audio! Tailored toward a base station setup, the 10 watt amplified speaker creates a sublime listening experience. Along with its upgraded DSP capabilities, it features a tweeter/bass driver combo that rivals home entertainment systems. It accepts either speaker- or line-level input, and has a separate headphone jack for using the speaker's DSP with your own headset.

⚠ **WARNING:** For Proposition 65 information, see p. 3


PNE-I34A


PNE-Y40A

PHITS Acoustic Modification Kits

A speaker driver is only part of the equation. High quality acoustic reproduction requires a cabinet with the proper amount of baffling, porting and resonance. Phonema's Acoustic Modification Kits let you add specialized internal foam and filling to get the most out of your speaker's existing cabinet, without having to swap the driver.

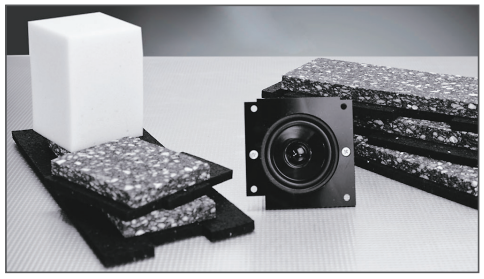
PNE-I23A	Kit for Icom SP-23	**$51.99**
PNE-I34A	Kit for Icom SP-20, SP-34	**$74.99**
PNE-I41AX	Kit for Icom SP-41	**$94.99**
PNE-K23A	Kit for Kenwood SP-23, SP-120, SP-430	**$41.99**
PNE-K31	Kit for Kenwood SP-31	**$59.99**
PNE-K89A	Kit for Kenwood SP-890	**$67.99**
PNE-K95A	Kit for Kenwood SP-950/940/930/230/180	**$67.99**
PNE-K99	Kit for Kenwood SP-990	**$73.99**
PNE-TT07	Kit for Ten Tec 307	**$59.99**
PNE-Y2KA	Kit for Yaesu SP-2000	**$70.99**
PNE-Y6A	Kit for Yaesu SP-6/767/102	**$66.99**
PNE-Y8A	Kit for Yaesu SP-8	**$63.99**
PNE-Y9K	Kit for Yaesu SP-9000	**$95.99**
PNE-Y10A	Kit for Yaesu SP-10	**$41.99**
PNE-Y101A	Kit for Yaesu SP-101	**$68.99**
PNE-Y20A	Kit for Yaesu SP-20	**$59.99**
PNE-Y30A	Kit for Yaesu SP-30	**$49.99**
PNE-Y40A	Kit for Yaesu SP-40	**$59.99**



Universal PHITS Kit

This kit comes with three types of acoustic foam that you can trim yourself to enhance the sound quality of your speakers. Kit includes acoustic material only.

PNE-SPX0 Universal PHITS Kit..... **$55.99**



PHITS Acoustic Modification Kit for Icom SP-38

Take the next step in upgrading the sound quality of your Icom SP-38 external speaker by adding internal foam and filling designed specifically to produce less reverberation, better intelligibility, and improved frequency response.

PNE-I38AX PHITS, Speaker Sound Quality Upgrade for Icom SP-38 ..... **$82.99**


PNE-GPH-K23


PNE-GPH-Y2K

GAMMA PHITS Speaker Modification Kits


PNE-GPH-X91

These kits swap your existing driver for a superior-quality neodymium unit. The new driver boasts better frequency response and power handling capability. You'll find similar drivers in big-buck audiophile sound systems. These driver kits are also a smart replacement for an old or damaged driver.

Speaker Driver Kits

PNE-GPH-I23	For Icom SP-23	**$37.99**
PNE-GPH-K23	For Kenwood SP-23*, SP-120, SP-430	**$45.99**
PNE-GPH-K23X	Speaker Driver Kit for Kenwood SP-23 with Plastic Face	**$41.99**
PNE-GPH-K31	For Kenwood SP-31	**$68.99**
PNE-GPH-X80	For Kenwood SP-180/230, Yaesu SP-767/102	**$50.99**
PNE-GPH-X90	For Kenwood SP-990	**$44.99**
PNE-GPH-X91	For Yaesu SP-101 or SP-6	**$45.99**
PNE-GPH-Y2K	For Yaesu SP-2000	**$44.99**
PNE-GPH-X90	For Yaesu SP-9000	**$44.99**
PNE-GPH-I34	For Icom SP-20,SP-34	**$39.99**

***Earlier, aluminum face SP-23 model only.**



RHEA Speakers

Designed to match the capabilities of modern transceivers, the Phonema RHEA-2 and RHEA-3 Speakers make a great-looking and even better-sounding addition to any shack. Manufactured with high-end acoustic materials and matched with a high-quality 8 Ω driver, they deliver a rich, balanced sound that is perfect for listening to your transceiver or receiver for hours. The speakers (7.3" W x 4.3" H x 10.82" D) are conveniently sized to match a range of Icom, Yaesu, Kenwood and Elecraft rigs, but will also work with other transceivers with similar dimensions. The box includes AG150 and Basotect acoustic foam materials for superb sound. The RHEA-3 version accepts two audio inputs selected by a front panel switch.

Enter "RHEA" at DXEngineering.com for more details.

PNE-RHEA-2	RHEA-2 Speaker	**$299.99**
PNE-RHEA-3	RHEA-3 Speaker, Accepts 2 Selectable Audio Inputs	**$359.99**

YAESU Mobile External Speakers



Rugged and compact, these handy speakers let you put your audio where you want it. They're a great solution to less-than-ideal radio installations, because you don't have to rely on the radio's own, built-in speaker. Each speaker comes with an attached 6.5' cable that terminates in a standard 1/8" phono plug. Mounting brackets are included. Got a station on your boat? The MLS-200-M10 is waterproof. The speakers are compatible with any radio that has a 1/8" external speaker jack.

YSU-MLS-100	Mobile External Speaker, Rectangle	**$59.99**
YSU-MLS-200-M10	Mobile External Speaker, Round, for FTM-100/400DR	**$59.99**

Miranda S Speaker



Phonema's Miranda S speaker is sized (6.024" W x 3.976" H x 10.039" D) to perfectly complement a range of radios from Icom, Kenwood, Ten Tec, Yaesu, and others. The finely finished wood enclosure houses special acoustic damping material, 10 watt power handling and 8 Ω driver. The Miranda boasts a 80-18000 Hz frequency response and 83 dB sensitivity. This great looking and sounding speaker offers a rich and articulate sound that makes it easy to understand both voice and CW signals.

PNE-MIRANDA-S Miranda Speaker for Icom, Kenwood, Ten Tec and Yaesu; **$193.99**

KSP3 Speaker for Elecraft K3 and K3S



Specially designed to work with and complement Elecraft K3 and K3S transceivers, the 30W KSP3 Speaker from Phonema uses a robust neodymium driver that's capable of handling higher power levels, providing a clearer and more balanced sound, improved CW signals, enhanced SSB clarity between 1 and 3 kHz, and a wider bass range for an overall more pleasant listening experience. The speaker (5.98" x 3.70" x 10.28") is sealed and wrapped in a new multi-density box with AG150, TF25R and Basotect internal acoustic foam for the best possible sound. The speaker's built-in stand matches elevation angles with the K3 and K3S and works with many other transceivers with a top-to-bottom height between 3.39" and 3.78".

PNE-KSP3S Speaker for Elecraft K3 and K3S **$194.99**

YAESU Base Station External Speaker



This external speaker offer adjustable audio filters for fine-tuning your audio. It has dual sets of inputs, so you can match one speaker to two radios. Though it's tailored to Yaesu radio models, it will work well for any base station radio.

YSU-SP-101 Base Station Speaker for FTdx-101D **$259.99**

YAESU SP-10, SP-20, SP-30, and SP-40 External Speakers


YSU-SP-10

Capable of stunning audio reproduction well tailored to SSB and digital voice, these two quality speakers from Yaesu are an excellent complement to your base station. Both speakers mate perfectly with a corresponding Yaesu transceiver.

YSU-SP-10	Speaker for Yaesu FT-991	**$199.99**
YSU-SP-20	External Speaker for Yaesu FTDX1200, FTDX3000D	**$239.99**
YSU-SP-30	External Speaker for Yaesu FTDX10	**$209.99**
YSU-SP-40	External Replacement Speaker for FT-710-AESS/FIELD	**$169.99**

Join our crew on Facebook for news and exclusive deals!

⚠ **WARNING:** For Proposition 65 information, see p. 3


O3A-4O-NC-1

NC-1 Noise-Canceling Headset and Accessories

4O3A

From 4O3A comes the premium NC-1 headset that's ideal whether you're into contesting or high-fidelity listening of your favorite music. The light and comfortable NC-1 features over-the-ear stereo Bluetooth headphones that upgrade with a plug-in condenser boom microphone; its preamp works with most transceivers. Enjoy crystal clear audio for contesting, wide frequency response, a top-notch 25 dB noise canceling system, 40mm neodymium drivers that reproduce the slightest details in signals and music, Bluetooth 5.0 and an internal microphone for mobile devices, a USB-C cable, and internal rechargeable 750 mAh Li-Ion battery for up to 30 hours of worry-free operation. Headphone and boom mic also sold separately. Headset-Transceiver 8-pin round mic adapters and audio adapters sold separately.



O3A-4O-NC-BTNC1

Enter "NC-1" at DXEngineering.com for more details.

O3A-4O-NC-1	NC-1 Headset Set w/Noise-Canceling Bluetooth Headphones, MC-1 Plug-In Boom Mic, Adapters, Cases;	**$393.98**
O3A-4O-NC-HP	Noise-Canceling Bluetooth Headphones Only w/Case....	**$321.99**
O3A-4O-NC-STN	Wooden Headset Stand	**$205.99**
O3A-4O-NC-MC-1	Boom Mic Only, Plug-In w/Mic & HP 3.5mm TRS Plugs, 6.35mm HP Adapter, Case	**$71.99**
O3A-4O-NC-1-I8	Headset-Transceiver Adapter Cable, 8-Pin Round for Icom.....	**$33.99**
O3A-4O-NC-1-K8	Headset-Transceiver Adapter Cable, 8-Pin Round for Kenwood.....	**$33.99**
O3A-4O-NC-1-Y8	Headset-Transceiver Adapter Cable, 8-Pin Round for Yaesu.....	**$33.99**
O3A-4O-NC-BTNC1	USB Bluetooth Adapter Dongle to Use NC-1 Wirelessly on PC	**$20.99**
O3A-4O-NC-BTNC1R	USB Bluetooth Adapter Dongle + Antenna, Extended Range.....	**$31.99**

ICOM

ICO-SP-38



External Speakers

You've spent a lot of time and money perfecting your antenna and radio, now make sure that the last step—the audio delivery—has the same performance. Icom offers several speakers to help you better hear contacts and make more QSOs. Each speaker includes the appropriate hookup cable(s).


ICO-SP-30

ICO-SP-41	External Speaker, IC-7610 Companion	**$299.99**
ICO-SP-38	External Speaker, Base Station Type, IC-7300/IC-9700 Companion.....	**$209.99**
ICO-SP-30	External Speaker, Powered, 20 W.....	**$189.99**
ICO-SP-35	External Mobile Speaker, Replaces SP-10	**$67.99**

In-Stock Parts Typically Ship The Same Day.

New!

HAM SET


HMT-HAMSETQ25-DX


HMT-HAMSETQ25-LR

Q-25 Ham-Set Headsets

The lightweight Bose® QC-25 Headset boasts a comfortable feel for hours of carefree contesting, plus sound clarity that's synonymous with the Bose brand. Its Active Noise-Canceling System eliminates ambient noise before it reaches your ears. The system has dual-sensing that gives the headphones a more accurate picture of the noise, improving how it's canceled. The Q-25's dynamic boom mic is compatible with all major radios.* The -LR version has a full-range dynamic element that replicates the standard operating headset at the K3LR contest station (exclusively from DX Engineering). Headsets are meticulously refurbished and come in original box with carrying bag. *Requires Heil AD-1 headset adapter cable that matches your transceiver (see pg. 26).

Enter "Q-25" at DXEngineering.com for more details.

HMT-HAMSETQ25-LR	Q-25 Refurbished Ham-Set Headset, Coiled Cable K3LR Model	**$435.99**
HMT-HAMSETQ25-DX	Q-25 Refurbished Ham-Set Headset, Braided Cable	**$455.99**

bhi
Noise Cancellation Products



HP-1 Wired Stereo Headphones

Made for rag chewing, contesting, or just listening to your favorite tunes, bhi's HP-1 compact wired stereo over-the-ear headphones offer features that provide hours of comfort. These are lightweight, closed back foldable dynamic headphones with an adjustable headband. Soft leatherette padded earcups eliminate the pressure associated with heavy headphones, so you can operate longer without fatigue. Other features include 32 Ω impedance, high sensitivity, frequency response of 20-20,000 Hz, and 6' cable terminated with an integral 3.5mm (1/8") stereo plug. 1/4" stereo to 3.5mm stereo adapter included.

BHD-HP-1	HP-1 Wired Stereo Headphones	**$57.99**

bhi
Noise Cancellation Products


BHD-NCH

NCH Active Noise Canceling Headphones

These headphones reduce ambient background noise and provide stellar passive audio isolation so you can enjoy a more blissful listening experience, whether in an aircraft cabin or at home trying to block out the sound of a fan or air conditioner. Weighing less than half a pound, these over-the-ear headphones feature soft pads and adjustable headband for a comfortable fit. They boast active noise canceling capabilities from 12-15 dB. A handy switch allows the active noise cancellation to be turned on or off. Comes with a 4-foot detachable cable.

For more details enter "bhi nch" at DXEngineering.com.

BHD-NCH	Active Noise Canceling Headphones	**$87.99**

INRAD international radio

W1 Competition Headset



Whether you're contesting, DXing or rag-chewing, INRAD's W1 Headset comes with the features operators desire for hours of worry-free, comfortable operating. Weighing only 13 ounces, it includes cupped, over-the-ear earpieces that won't hurt after hours of use; thick rubberized foam padding at the top of the headband that molds to the head; the ability to tilt the headband back up to 30 degrees without moving the earpieces; large diaphragm high response speakers for clear articulation of receive audio; 600 Ω dynamic microphone element on adjustable long boom with exceptional transmit audio; and extra long 7' cable. Connect the 1/8" mono transmit audio jack on the headset to an INRAD M-series mic jack adapter and you're ready to operate for long sessions, without troubling fatigue.

INR-W1	Competition Headset	**$189.00**

PARADAN radio



Hi-Rate2 Headset and Footswitch Packages

Here's a great combo sure to help you make more QSOs whether contesting or working DX. The upgraded Hi-Rate2 package includes an improved commercial-grade lightweight and comfortable stereo headset with a sensitive electret boom microphone and foam windscreen to reduce breath popping noise; a ruggedly built and easy-to-activate "push-to-talk" footswitch with 5' cable and 1/4" plug for worry-free operating; headset splitter cable; radio mic cable; and transceiver mic adapter. With your hands free, you can enter call signs and exchanges on the keyboard while switching from receive to transmit by depressing the footswitch. Select from six packages based on transceiver mic connector.

PDN-HI-RATE2ELCR	Package w/ Elecraft 8-Pin Round Mic Connector	**$140.00**
PDN-HI-RATE2IC8R	Package w/ Icom 8-Pin Round Mic Connector	**$140.00**
PDN-HI-RATE2ICRJ	Package w/ Icom 8-Pin RJ45 Modular Mic Connector;	**$140.00**
PDN-HI-RATE2KNWD	Package w/ Kenwood 8-Pin Round Mic Connector	**$140.00**
PDN-HI-RATE2YA8R	Package w/ Yaesu 8-Pin Round Mic Connector	**$140.00**
PDN-HI-RATE2YARJ	Package w/ Yaesu 8-Pin RJ45 Modular Mic Connector;	**$140.00**

KENWOOD


KWD-SP-23

External Speakers

Don't overlook the importance of a good external speaker in your station. After all, it's the final link in your signal chain. Kenwood borrowed from its storied history of offering high-fidelity audio components to create external speakers specifically tailored to amateur radio—including mobile applications.

KWD-KES-5	Mobile, 4 Ω, 3' Cord with Stripped Leads	**$65.99**
KWD-SP-23	Base, 8 Ω, RF Shielded, Screw Terminals.....	**$121.99**
KWD-SP-990	Base, 8 Ω, RF Shielded, Pushbutton Filters.....	**$369.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3



New BM-17 Headset

Coming in Summer 2026, take your operations to the next level with the new BM-17 Headset from Heil Sound—an upgraded version of the original (yellow) BM-17 model. Check in at DXEngineering.com. We'll post specs and pricing as soon as the headset is available.

Pro 7 Headsets



Using well-insulated ear pads and an innovative acoustic design, the Pro 7 Headsets' passive noise canceling ability blocks out all the background noise, leaving just you and your radio. And since it's passive, you don't have to worry about eating batteries or any extra power draw. The Pro 7 series features a unique audio balance control, which allows one speaker's volume to be adjusted. The headsets' clever phase reversal switch lets you really dig out weak frequencies, and the mic boom can be used on either the right or left ear. Pro 7 models require AD-1 series cable (sold separately); see table on page 26.

HLS-PRO7BK	Pro 7 Headset, Black, Dynamic	$349.00
HLS-PRO7BK-IC	Pro 7 Headset, Black, Electret	$349.00
HLS-PRO7BU	Pro 7 Headset, Blue, Dynamic	$349.00
HLS-PRO7BU-IC	Pro 7 Headset, Blue, Electret	$349.00

Pro 7 Contest/DX Element



If you've got a Pro 7 headset and do a lot of contesting, you may want to swap out the stock mic element for this purpose-built unit. It's a modified version of the venerable HC-4 element, with a sharp roll-off at 600 Hz and a 10 dB boost between 2.5-3 kHz. Those tweaks allow for clear, articulate voice reproduction that works well in busting through pileups.

HLS-PRO74-DYNELE	Pro 7 Contest/DX Element	$79.00

Pro Set Headsets



Designed for amateur radio, the lightweight and versatile Pro Set Headsets work well in any shack setup. They feature Heil Sound's exclusive phase reversal switch, which can significantly improve copy during pileups.

Pro Set Elite Headsets take comfort and performance up a notch, with larger, more heavily padded earpieces. Pro Set models require AD-1 series cable (sold separately); see table on page 26.

HLS-PSE-IC

HLS-PSE-6	Pro Set Elite Headset	$229.00
HLS-PSE-IC	Pro Set Elite iC Headset	$229.00

YAESU

Headsets and Earpieces



YSU-SSM-63A



YSU-YH-77STA

Don't be saddled with your HT all day. Grab one of these headsets or earpieces and work hands-free. Select from a traditional lightweight mono headset with a boom mic, or a low-profile earset. Each option has an inline PTT switch, and the smaller earpieces include a handy lapel clip to keep the controls close at hand. Select the one you want based on your Yaesu radio model below.

YSU-SSM-63A	VOX Headset for FT-1/2DR, FT-60R, VX-3R	$99.99
YSU-SSM-517A	Earpiece Lapel Mic for VX-6R/FT-270R	$49.99
YSU-SSM-518A	Earpiece Lapel Mic for FT-1/2/3/5DR, VX-3R, FT-60R	$49.99
YSU-SSM-512B	VOX Earpiece, FT-65R/25R	$39.99

Lightweight Stereo Headphones

Just listening tonight? Here's the perfect set of headphones. These comfy "cans" supply excellent sound reproduction. They come with a 4' audio cord and include a handy 1/8" phono to 1/4" phono jack adapter.

YSU-YH-77STA	Lightweight Stereo Headphones	$129.99

ON ALL BANDS
AN AMATEUR RADIO BLOG POWERED BY DX ENGINEERING

Check out our blog, ***OnAllBands.com***, for articles on upcoming DXpeditions, what's new in contesting, digital operations, and a range of other topics. Want more? We've got loads of tech videos and interviews on the DX Engineering YouTube channel. Of course, when you want personal attention, our experts are only an email or phone call away.

DX ENGINEERING



Footswitches

Go hands-free and speed up your operating. These new PTT footswitches from DX Engineering blend performance and value. You have three options: a budget friendly rugged plastic model, the stalwart cast iron version, and a new style with an extra-wide pedal—perfect for enthusiastic stomps.

DXE-FS-001	Footswitch, Plastic	$65.99
DXE-FS-002	Footswitch, Iron	$101.99
DXE-FS-003	Footswitch, Wide Pedal	$181.99

Professional Headphones



Whether you're listening to a distant shortwave broadcast or an old jazz LP, these headphones deliver exceptional sound reproduction. They include three different detachable cables, allowing you to select the correct length and connector you'll need. The cables terminate in a 1/8" plug with a gold-plated, screw-on 1/4" adapter for compatibility with many devices. The replaceable earpieces are heavily padded for comfort.

HLS-PROSET-3	Professional Headphones	$159.00

Pro Set Media Pro Headset



Made to work specifically with your computer, this award-winning headset delivers beautiful articulate audio. The earphones are acoustically tuned and use Heil Sound's exclusive phase-reversing feature to create a spatial widening effect that makes audio easier to hear. The mic element is also tailored to sound card input requirements.

Pro Set Media Pro Headsets are plug-and-play, with two standard 1/8" plugs that connect to the microphone and speaker jacks of your computer.

HLS-PSM	Pro Set Media Pro Headset	$119.00

Pistol Grip Hand Switch



This ergonomic switch lets you key your transceiver when using a microphone that doesn't have a PTT switch or when noisy environments render VOX operation impossible. It installs easily, terminating in a 1/4" phono plug.

HLS-HS-2	Pistol Grip Hand Switch	$45.00

Handie-Talkie Headsets

HLS-HTH-I



Designed precisely for amateur radio handhelds, these Heil headsets let you work hands-free in the field. The slim, low profile design is discreet and lightweight, which means the headsets can be worn comfortably for hours. The single earpiece can be positioned on the left or right side. The headsets have a standard PTT switch. Select the one appropriate for your radio model below.

HLS-HTH-I	HT Headset for Icom 2-Pin Plug	$45.00
HLS-HTH-K	HT Headset for Kenwood 2-Pin Plug	$45.00
HLS-HTH-Y	HT Headset for Yaesu TRRS Plug	$45.00

Dual-Sided Handie-Talkie Headsets

HLS-HTHD-I	Dual-Sided HT Headset for Icom 2-Pin Plug	$49.00
HLS-HTHD-K	Dual-Sided HT Headset for Kenwood 2-Pin Plug	$49.00
HLS-HTHD-Y	Dual-Sided HT Headset for Yaesu TRRS Plug	$49.00

Cables and Adapters

These assemblies let you connect your Heil Sound mics and accessories to your transceiver. Depending on the application, they include the manufacturer-specific plugs for your mic/headset, PTT switch and transceiver. If you need help choosing the right adapter, visit DXEngineering.com, select your mic or headset, and the "suggested parts" tab will show you some options.

Part Number	Description	Price
Icom		
HLS-AD-1-I	Pro Set 8-Pin Adapter Cable	$30.00
HLS-AD-1-IHT	Headset Adapter Cable for IC-705/HTs	$30.00
HLS-AD-1-IM	Pro Set Modular Adapter Cable	$30.00
HLS-AD-1-IC	Pro Set 8-Pin Adapter Cable	$30.00
HLS-AD-1-ICM	Pro Set Modular Adapter Cable	$30.00
HLS-CC-1-I	XLR4 to 8-Pin Mic Cable	$40.00
HLS-CC-1-IM	XLR4 to Modular Mic Cable	$40.00
HLS-CC-1-XLR-I	XLR3 to 8-Pin Mic Cable	$40.00
Kenwood		
HLS-AD-1-K	Pro Set 8-Pin Adapter Cable	$30.00
HLS-AD-1-KM	Pro Set Modular Adapter Cable	$30.00
HLS-CC-1-K	XLR4 to 8-Pin Mic Cable	$40.00
HLS-CC-1-XLR-K	XLR3 to 8-Pin Mic Cable	$40.00
Yaesu		
HLS-AD-1-Y	Pro Set 8-Pin Adapter Cable	$30.00
HLS-AD-1-YM	Pro Set Modular Adapter Cable	$30.00
HLS-CC-1-Y	XLR4 to 8-Pin Mic Cable	$40.00
HLS-CC-1-YM	XLR4 to RJ45 Modular Mic Cable	$40.00
HLS-CC-1-XLR-YB	XLR3 to 8-Pin Mic Cable, PTT Connector	$40.00
HLS-CC-1-XLR-YM	XLR3 to 8-Pin Modular, Balanced	$40.00
HLS-AD-100	Yaesu 8-Pin Round to 6-Pin Modular Adapter	$30.00
HLS-ADMY-817	Yaesu 8-Pin Mic to FT-817-450 Modular Adapter (-897,-991)	$30.00
Miscellaneous		
HLS-CC-1-XLR-3	Mic Cable with Connectors, 3-Pin XLR Male to Female, 8'	$40.00



Microphone Booms and Riser

Don't put your prized microphone on anything less than a professional-grade Heil Sound Boom. These quiet booms are sturdy and durable enough to go in the most active ham shacks and sound studios. All booms are threaded to accept standard mic accessories and are the perfect compliment to your Heil Sound Microphone. The Riser is a great solution for mounting your boom behind your transceiver.

HLS-PL2T Topless Proline Microphone Boom **$115.00**

HLS-SB-2 Straight Boom, 17" with Stealth C-Clamp **$69.00**

HLS-RS1 Boom Riser..... **$49.00**

Microphone Boom/Arm Mounts available in several styles, these genuine Heil Sound mounts are the ideal way to secure your boom and keep your valuable microphone safe.

HLS-FL-2 Flange Mount..... **$29.00**

HLS-DT1 Desktop Flush Mount..... **$49.00**

HLS-WM1 Vertical Surface Mount..... **$29.00**

HLS-PL2CLAMPR Replacement Mount for PL2T/SB-2/HB-1 ..... **$19.00**



Shock Mount

Using an 8-point suspension support system, these mounts fight off low frequency rumble and absorb noise caused by vibration and impact. The SM-1 is designed for slim-line Heil Sound microphones' 1" stem, while the PRSM is tailored to larger diaphragm professional-grade mics' 2" stem. It's important to check your microphone's fit before ordering.

HLS-SM-1 Shock Mount..... **$79.00**

HLS-PRSM-B Shock Mount, Black Finish **$99.00**



Genuine Heil Parts and Accessories

If you want to give your mic or headset a tune-up, then Heil Sound offers you accessories and replacement parts to do it. If you're looking for a specific part, don't hesitate to let us know and we'll do our best to find it for you.

Part Number	Description	Price
HLS-BAG1	Headset Gear Bag for Pro Set	$29.00
HLS-BC	Boom Clip for Pro Set	$7.00
HLS-PS-EPC	Ear Pad Covers for Pro Set (Pair)	$10.00
HLS-EP-FOAM-PS	Foam for Pro Set Ear Pads (Pair)	$7.00
HLS-EP-PSP	Ear Pads for Pro Set Plus/Elite (Pair)	$10.00
HLS-EP-PS	Ear Pads for Pro Set Series (Pair)	$10.00
HLS-EP-BM-BLACK	Ear Pads for BM Series (Pair)	$8.95
HLS-HMCLIP	Clip for GM/HM/PR Mics, 5/8"-27 Thread	$12.00
HLS-WSM	Windscreen for PR 20/35 and GM Mic	$6.95
HLS-WSPS	Windscreen for Pro Set Mic	$6.00
HLS-WSPSP	Windscreen for Pro Set Plus Mic	$6.00
HLS-XT-1	High-to-Low Impedance Matching Transformer	$19.00
HLS-HC51RETROKIT	Mic Element Upgrade Kit	$69.00



Microphone and RJ12/RJ45 Extension Cables

Choose these high-quality extension cables from Consolidated Wire for making reliable station connections every time. Microphone extension cables are universal for all brands.

CEW-GX16-5S Mic to Transceiver, 8-Pin Round Foster Male to Female, 5' **$17.99**

CEW-GX16-10S Mic to Transceiver, 8-Pin Round Foster Male to Female, 10' **$21.99**

CEW-GX16-15S Mic to Transceiver, 8-Pin Round Foster Male to Female, 15' **$26.99**

CEW-RJ12EXT RJ12, Male to Female 6-Pin Modular Mic or Control, 15' **$12.50**

CEW-RJ45EXT 8-Pin Modular Mic, Ethernet, RJ45 Male to RJ45 Female, CAT 5E, Pair, 15'..... **$14.29**

DX ENGINEERING REWARDS PROGRAM

The DX Engineering Rewards Program is free. When you sign up, you earn QSO Points on eligible purchases. Once you earn 250 QSO Points, they will automatically convert to $5 in DX Bucks™ that you can use on future purchases.

⚠ **WARNING:** For Proposition 65 information, see p. 3

Handi Mic Microphones

HLS-HM-IC



HLS-HM-PRO



These mics are the answer to muffled audio response. Well-suited to Amateur Radio use, they capture crisp, clean and articulate audio. Their rugged internal shock mount makes them a durable addition to your shack. They also feature low noise handling characteristics, making them great for use in mobile or field applications. A dash/wall mount and windscreen are included. This mic uses a 4-Pin XLR plug. The Handi Mic iC uses a high-performance output specifically tailored to Icom transceivers. The Handi Mic Pro contains the wide-range broadcast element, ideal for VHF FM rigs.

HLS-HM-IC	Handi Mic iC	**$99.00**
HLS-HM-PRO	Handi Mic Pro	**$99.00**

Microphones



Transmit with clarity with top-quality microphones from DX Engineering. Our microphones deliver clear communication with excellent frequency response, which makes them perfect for radio communication. We've got mics designed specifically for base stations and others that are well suited for field communication. Browse our inventory of leading-brand microphones from Heil Sound, Kenwood, Yaesu, ICOM, and more to find the perfect solution for your audio needs.

HLS-HMM	Heil Sound Microphone	**$89.00**
HLS-HMM-IC	Heil Sound Microphone	**$89.00**

Gold Elite Microphone



Heil Sound specifically crafts this microphone for the Ham radio community. The microphone includes two distinct dynamic elements, selectable with the flip of a switch. The "Wide" setting is ideal for general voice articulation. The "Narrow" setting accentuates the lower frequency range of human voice to help smooth out the audio response. This mic uses a 4-Pin XLR plug.

HLS-GM-ELITE	Gold Elite Microphone	**$169.00**

iCM Microphone



Owners of early Icom transceivers know that they don't have a lot of gain in the microphone preamp stage. Heil Sound gives you a boost with a mic specifically suited to those transceivers. Heil Sound worked closely with Icom engineers to build a mic with an excellent frequency response, coupled with a higher output to compensate for the lack of gain from early Icom transceivers. Includes cable with 8-Pin round mic connector.

HLS-ICM	iCM Microphone	**$149.00**

Microphone Base Stand



Improving upon a timeless design, these heavy, polished chrome bases include a PTT switch that can also be used as a "cough" switch. It uses standard mic mounting threads and a 24" jumper cable is included to make mic installation a breeze.

HLS-CB-1-PTT	Microphone Base Stand	**$79.00**

Heil Wire Bulk Microphone Cable



Specifically designed for mics, switches, keys, paddles and other audio/control devices, this cable consists of two 18 AWG shielded internal wires plus two 18 AWG wires external to the braid. Heil's cable is specially shielded to reduce hum, PTT pulses and RFI. It is made to fit neatly into 1/4 inch connectors and receptacles.

HLS-HW-10	Microphone Cable, 10 Feet	**$20.00**
HLS-HW-20	Microphone Cable, 20 Feet	**$30.00**
HLS-HW-50	Microphone Cable, 50 Feet	**$70.00**

PR 781 Microphones





Heil gives you a professional-quality microphone that will provide years of service in your shack. Building upon the legendary PR 780, these dynamic cardioid microphones feature a wide frequency response that retains the signature Heil Sound voice articulation.

The PR 781 works well with practically any high-quality transceiver. In fact, you'll find these same mics used in many commercial broadcast studios. This mic uses a 3-Pin XLR plug.

HLS-PR781	PR 781 Mic, Black Screen	**$229.00**
HLS-PR781G	PR 781 Mic, Gold Screen	**$229.00**

PR 40 Microphone



With the widest frequency range of any dynamic mic in the PR series, this microphone is the workhorse of professional sound recording studios. It features a shock-mounted, low mass diaphragm, which gives you stellar sound reproduction in a durable chassis. An internal filter prevents dreaded breath blast and cuts down on P-pops, too. This microphone is simply one of the best all-around mics for audio engineers and ham operators alike. This mic uses a 3-Pin XLR plug.

HLS-PR40	PR 40 Microphone	**$379.00**
HLS-PR40B	PR 40 Microphone, Black	**$379.00**

PR 77D Microphone



Give your shack the same professional-quality dynamic microphone enjoyed by commercial broadcasters, podcasters, performers, recording artists, and anyone who demands a smooth, flat response over a wide frequency range. The PR 77D delivers excellent transient response, great speech articulation, and low IMD. Take advantage of 180-degree, off-axis rear rejection of over 40 dB, a bass EQ switch, and a front pattern that allows you to move about freely in front of the element with no change in response. A CC-1 XLR cable is required to interface with Amateur Radio rigs.

HLS-PR77D	Wide Range Dynamic Microphone, Black	**$249.00**
HLS-PR77DP	Wide Range Dynamic Microphone, Purple	**$249.00**

PTT Desk Stand



Built for INRAD microphones and other standard stage mics with 1" bodies, this great-looking PTT desk stand features a large push-to-talk bar switch that lets you comfortably execute long transmissions by locking it in place. Simply slide the switch to the right to release. The stand's hefty 2 1/2 lb. metal base keeps it from sliding, and a rubberized clip makes mounting your microphone easy. A circular rubber ring in the threaded base for the standpipe and mic clip provides an integral shock mount for noise isolation. The back of the DMS-1 base has a 1/8" jack (3.5mm female) for the audio from the microphone and a 4-pin XLR male output to deliver the audio and PTT from the PTT Desk Stand to the transceiver. Choose one required INRAD coiled cord adapter cable terminated with 4-Pin XLR female and a specific transceiver microphone female connector.

INR-DMS-1	PTT Desk Stand	**$85.95**
INR-DM-I	INRAD DMS-1 Adapter Cable for Icom 8-Pin Round Mic Input	**$16.95**
INR-DM-K	INRAD DMS-1 Adapter Cable for Kenwood 8-Pin Round Mic Input	**$16.95**
INR-DM-Y	INRAD DMS-1 Adapter Cable for Yaesu 8-Pin Round Mic Input	**$16.95**
INR-DM-YM	INRAD DMS-1 Adapter Cable for Yaesu 8-Pin Modular Mic Input	**$16.95**



Microphones

No matter which you choose, INRAD's line of quality microphones delivers performance and value for hams at every level. Each one has its own specialized dynamic element and unique style. They all come with a 3-Pin XLR to 1/8" adapter cable for easy hookup. Certain radios may require an additional adapter, see below.

M629

Tailored to modern radios including the latest SDRs, the M629 has a brilliant cardioid dynamic element with excellent frequency response.

INR-M629	M629 Microphone	**$79.00**

M650

One of INRAD's most popular mics, with audio response similar to the M628 and M686. It has a cardioid element and internal breath screen.

INR-M650	M650 Microphone	**$79.00**

M686

Excellent transmit audio, reminiscent of the M629 and M650, with a black metal frame, cardioid element, and internal breath screen.

INR-M686	M686 Microphone	**$69.00**

M665

Retro chrome look and uni-directional element with bright mid-range and a built-in filter to mitigate breath noise and P-pops.

INR-M665	M665 Microphone	**$69.00**

M628

Value-priced counterpart to the M650, boasting a similar cardioid element with a focused 40 Hz-5 kHz response that's well suited to SSB.

INR-M628	M628 Microphone	**$59.00**

Accessories

INR-M-I	Adapter for Modern Icom 8-Pin Mic Jack	**$16.95**
INR-M-K	Adapter for Kenwood 8-Pin Mic Jack	**$16.95**
INR-M-Y	Adapter for Yaesu/Flex/Ten-Tec 8-Pin Mic Jack	**$16.95**
INR-M-YM	Adapter for Yaesu Modular RJ-45 Mic Jack	**$16.95**

Desktop Microphones



ICO-SM-30

Here are the perfect microphones for your Icom base radio. They're unidirectional and ideal for SSB and FM voice operation. Each mic features a PTT button with PTT Lock switch, adjustable mic output, and a low-cut switch. Both mics terminate in an Icom 8-Pin round female plug. There's a dynamic or an electric condenser mic option; select the one that best suits your operating style and environment—if you don't know, call us and we can help.

ICO-SM-30	Desktop Microphone, Electret Condenser	**$245.99**
ICO-SM-50	Desktop Microphone, Dynamic	**$375.99**

Visit DXEngineering.com for the latest limited-time offers and special savings!

⚠ WARNING: For Proposition 65 information, see p. 3

YAESU

Reference Microphone



Yaesu purpose-built this microphone to deliver the ultimate in amateur radio voice reproduction. It combines both an electret condenser and dynamic mic element, selectable separately or combined with independent adjustability to suit your unique voice characteristics.

The mic base incorporates a recorder/playback module to check out audio, plus a large graphic EQ and frequency response scope. Large buttons allow for near limitless adjustability. The mic itself can be fitted with the cowling to increase treble output. It can be configured for an 8-Pin round or modular connector.

YSU-M-1 Reference Microphone..... **$899.99**

Dual Element Desk Microphone



Yaesu's M-100 packs in all the audio performance of the M1 (without the equalizer and display features). It supports a wide range of Yaesu rigs, including the FTDX 9000, FTDX 5000, FTDX 3000, FTDX 1200, FT-991A, FT-891 and FT-450 Series. Recommended for all voice modes from SSB to C4FM, the M-100 can be operated with punchy transmit audio for effective DXing and contesting. Other features include a dynamic element and condenser (electret) element, air cylinder/magnetic switch for effortless PTT, manually selectable low and high cut, and a pedestal-base mount for isolated vibration and purer sound.

YSU-M-100 Dual Element Desk Microphone..... **$529.99**

YAESU

M-90D Desktop Microphone



Experienced hams know that a quality microphone is worth its weight in gold, which is what you'll receive with the Yaesu M-90D. It employs a finely tuned dynamic element to deliver rich low-to-mid frequency response. For hams, that means a clear and concise conversational sound great for contesting, DXing, or long rag-chews. An oversize dynamic microphone element and windscreen accentuate voice input from the front and limit ambient noise and sounds from the side. Features include a large PTT bar switch, a PTT lock button, and both 8-pin modular and round connectors at the back. By swapping the orientation of the supplied coiled cord cable with 8-pin round and modular connectors at either end, the M-90D may be used with virtually any Yaesu HF transceiver*, including the FTDX101 Series and FTDX10. For difficult band conditions, a built-in, low-cut filter creates clear and crisp audio characteristics by shaping the low frequency response (cut off at 340 Hz, -6 dB/ octave). An integrated isolation transformer enhances its audio quality. In addition, use of three air cylinder tubes provides a lifetime of solid, smooth, and noiseless PTT operation. The M-90MS Microphone and Stand Mounting Kit includes a mic head, inline PTT hand switch, and bracket to attach to a boom or stand (not included).

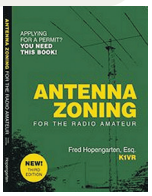
***Optional Power Supply Kit ABB19X001 required for use with Yaesu FT-1000/D, FT-990, FT-890, FT-840 and FT-747 rigs.**

YSU-M-90D M-90D Desktop Microphone... **$199.99**

YSU-M-90MS M-90D Microphone and Stand Mounting Kit **$169.99**

YSU-SCU-53 Mic Adapter Cable for M-90MS, RJ-45 Jack to Round 8-Pin Plug **$30.99**

Antenna Zoning for the Radio Amateur, 3rd Edition



Originally published in 2001 and updated in 2011, the revised third edition of the paperback Antenna Zoning Book for the Radio Amateur by attorney Fred Hopengarten, K1VR, provides you and your representation with 276 pages of invaluable guidance that lets you approach the often intimidating antenna construction permit process with greater confidence. Chapters include Principles that Will Help You Win, Preparing the Permit Application, Possible Objections, Public Hearings—Your Big Moment in the Spotlight, Lawsuits, Appeals, and more. This comprehensive edition has updated details on situations involving HOAs, including a draft of a compromise statute designed to appease all parties.

KVR-ZONING-3RD Antenna Zoning for the Radio Amateur, 3rd Edition **$49.95**

YAESU

M-70 Desktop Microphone

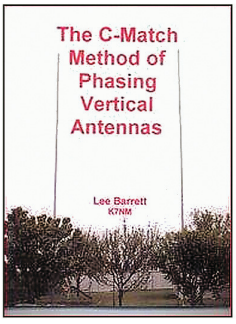


Whether you're into the whole brevity thing or have the gift of gab, the M-70 makes a great addition to your Yaesu rig. It utilizes a directional condenser element with a precisely-tuned frequency response that delivers clear and crisp audio. Audio is further enhanced by an isolation transformer integrated in the circuit board. The PTT employs three air-cylinder tubes, similar to the M-1 model, to provide solid and smooth extended operation. A simple one-touch PTT keylock button is placed just above the PTT key for long rag-chews. The M-70 is compatible with all Yaesu HF transceivers equipped with round 8-pin microphone connector or 8-pin modular microphone connector.

YSU-M-70 M-70 Desktop Microphone **$159.99**

DX ENGINEERING

K7NM's The C-Match Method of Phasing Vertical Antennas



In this 47-page paperback, Lee Barrett, K7NM, explains the concept behind the C-Match Method and demonstrates how amateur radio operators can use it to easily phase vertical arrays. This powerful concept can be used by hams to chase rare DX stations by "pointing" their signal in the desired direction. The book includes a CD with phasing pattern programs.

KNM-VERTANTENNAS The C-Match Method of Phasing Vertical Antennas **$19.95**

HEIL HAM RADIO

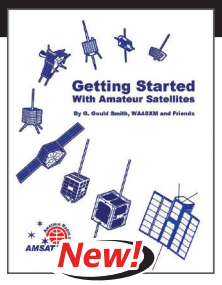
Heil Ham Radio Handbook 2nd Edition



Featuring 128 pages that are chock full of useful information, this guide penned by audio legend Bob Heil, K9EID (SK) takes readers from very basic ham radio principles to advanced technologies. Bob's easy, conversational style of writing for technical subjects will help you to quickly understand what radio (and audio) is all about. This handbook is an ideal primer for new hams or those considering involvement in the hobby.

HLS-HHB Heil Ham Radio Handbook **$20.00**

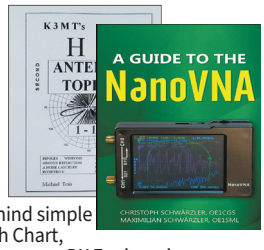
Getting Started with Amateur Radio Satellites



It's time to join the legions of operators who are hooked on making contacts through amateur radio satellites. This 128-page spiral-bound reference by G. Gould Smith, WA4SXM, and friends includes many practical examples and covers all the topics you'll need to get started, including locating satellites, FM satellites, digital satellites, the International Space Station, and upgrading your satellite station. It's a great way for fledgling operators to start working the "birds" and experienced hams to discover the fun and challenges of this exciting pursuit.

AMT-SATELLITES Getting Started with Amateur Radio Satellites..... **$30.00**

K3MT Technical Books DVDs



K3MT Books

For those who want to dig deeper into the finer points of topics such as NVIS communication, theories behind simple antenna structures, the Smith Chart, and a range of HF antenna concerns, DX Engineering now carries books from Jokalym Press authored by longtime ham Michael Toia, K3MT. His practical guide, HF Antenna Topics, shows how hams have made their own antennas, covering everything from the half-wave dipole to the ground inverted vee and simple Beverages. You – Coax – and Smith contains instructions on how to draw a Smith Chart, what it means, and how to use it. A Guide to the NanoVNA includes many examples of how to benefit from use of the device, along with 52 photos and screenshots.

Enter "K3MT" at DXEngineering.com for more details.

KMT-ANT-TOPICS K3MT's HF Antenna Topics, 2nd Edition.....**$14.00**

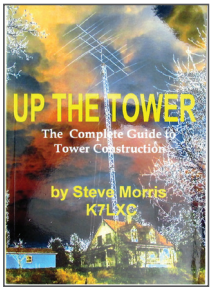
KMT-NEAR-VERT K3MT's Near Vertical Incidence Skywave Communication, 3rd Edition.....**$20.00**

KMT-RADIO-ANT K3MT's Radio Antennas, 2nd Edition.....**$14.00**

KMT-SMITH K3MT's You – Coax – and Smith; **$14.00**

KMT-NANOVNA K3MT's A Guide to the NanoVNA;**$16.50**

Champion Radio Books



Champion Radio is regarded as an authority on the subject of antennas and towers, and has published three in-depth books on those subjects.

HF Tribander Performance Test Methods and Results

Ward Silver N0AX and Steve Morris K7LXC rigorously test ten popular tri-band Yagi antennas (including the DX Engineering Skyhawk™). This updated edition outlines the test protocol, conditions and results.

HF Vertical Performance Test Methods and Results

Ward Silver N0AX and Steve Morris K7LXC complement their acclaimed HF Tribander book, auditioning several verticals from Butternut® Antennas, MFJ, Diamond and more. The test results are well chronicled.

Up the Tower, The Complete Guide to Tower Construction

Steve Morris K7LXC has built a lot of towers, and he's put everything he's learned along the way into this book. It covers building codes, proper guying, safety, respecting your neighbors and more.

CRP-TRIBANDBOOK HF Tribander Performance, 2nd Edition **$20.99**

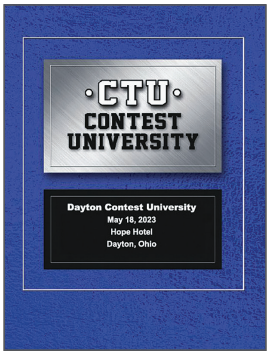
CRP-VERTBOOK HF Vertical Performance **$20.99**

CRP-TOWERBOOK Up the Tower **$35.99**

Prices are subject to change without notice.

⚠ **WARNING:** For Proposition 65 information, see p. 3

CTU CONTEST UNIVERSITY

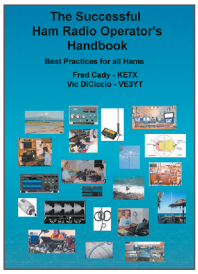


Contest University Textbooks

Couldn't make it to Dayton? These paperbacks are the same ones distributed at the annual Contest University seminars. Whether you're a seasoned contester or just becoming interested in this exciting facet of ham radio, these textbooks are valuable additions to your library. Topics include everything from helpful tips and pointers to advanced operating methods and RF theory.

CUB-CTU-2017	2017 CTU Textbook	**$19.99**
CUB-CTU-2018	2018 CTU Textbook	**$19.99**
CUB-CTU-2019	2019 CTU Textbook	**$19.99**
CUB-CTU-2022	2022 CTU Textbook	**$24.99**
CUB-CTU-2023	2023 CTU Textbook	**$26.99**
CUB-CTU-2024	2024 CTU Textbook	**$26.99**
CUB-CTU-2025	2025 CTU Textbook	**$26.99**

The Successful Ham Radio Operator's Handbook—Best Practices for Hams

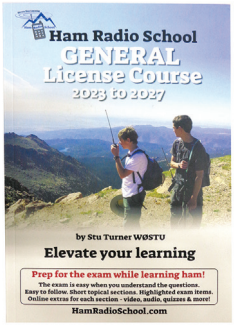


Fred Cady, KE7X and Vic DiCiccio, VE3YT have teamed up to put together 268 spiral-bound pages of information and wisdom that is essential reading for novices and old-time hams who are rediscovering the hobby. Topics covered include basics of how a radio works; developments such as SDR and direct sampling receivers; fun and useful aspects of ham operation, including digital modes, weak signal VHF, public service, EMCOMM, and DXing; how to build your own dipoles and verticals; information on baluns, selecting the right coax and propagation; and much more. Want to be a succesful operator? Here's a good place to start!

KEX-OPERATORBOOK	The Successful Operator's Handbook	**$44.95**

Elevate Your Learning — Ham Radio School

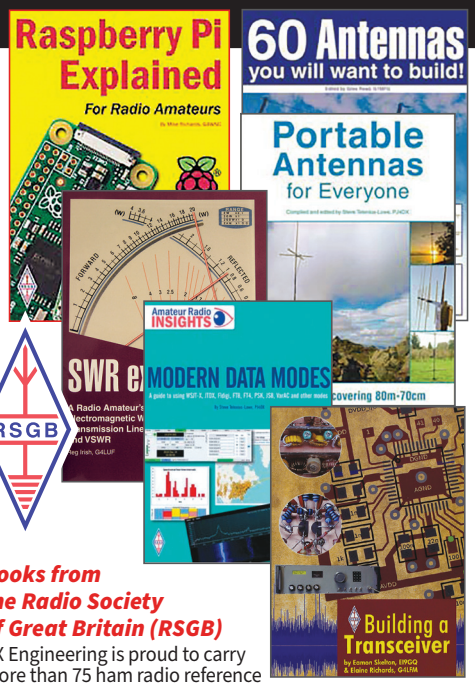
Technician and General Class License Course Books



Two of the best study guides available, these books contain everything you'll need to know to pass the licensing exam. The illustrated paperbacks offer the perfect mix of technical information and practical real-world examples.

Author Stu Turner W0STU holds an Extra Class license and also served as a U.S. Air Force Academy Engineering Professor. So he knows how to arm you with the confidence to pass the test. After you're licensed, these books are great additions to your technical library.

HDS-TECHBOOK30	Technician License Course	**$26.95**
HDS-GENBOOK27	General License Course	**$22.95**
HDS-EXTRABOOK28	Extra License Course	**$34.95**



Books from the Radio Society of Great Britain (RSGB)

DX Engineering is proud to carry more than 75 ham radio reference books from the RSGB—an organization that has been advancing the art and science of amateur radio since its founding in 1913. Clearly and expertly written, RSGB's paperbacks cover a range of topics, from portable antennas to SOTA, EME to digital modes, Raspberry Pi to test equipment. A few options are below, including the 752-page RSGB Radio Communication Handbook, 15th Edition—one of amateur radio's essential guides. **Enter "RSGB" at DXEngineering.com for the full lineup.**

RSG-AN0T	The Antenna Notebook	**$31.99**
RSG-AN60	60 Antennas You Will Want to Build	**$31.99**
RSG-ARA2	Amateur Radio Astronomy	**$32.99**
RSG-ASAT	Amsats and Hamsats	**$32.99**
RSG-BATR	Building a Transceiver	**$25.99**
RSG-CIA3	Computers in Amateur Radio, 3rd Edition	**$31.99**
RSG-CWOL	The CW Way of Life	**$30.99**
RSG-ELE2	Elimination of Electrical Noise	**$15.99**
RSG-GSEM	Getting Started in EME	**$16.99**
RSG-HFDB	HF DX Basics	**$24.99**
RSG-MAGI	The Magic Bands	**$31.99**
RSG-MDMO	Modern Data Modes	**$26.99**
RSG-NVNA	Nano VNAs Explained	**$30.99**
RSG-PANT	Portable Antennas for Everyone	**$31.99**
RSG-PARA	The Paraset Radio	**$18.99**
RSG-PR13	Prefix Guide, 13th Edition	**$22.99**
RSG-QRP3	QRP Basics, 3rd Edition	**$31.99**
RSG-RFDB	RF Design Basics	**$33.99**
RSG-RPIE	Raspberry Pi Explained	**$32.99**
RSG-RTT2	RTTY/PSK31 for the Radio Amateur	**$18.99**
RSG-SOTE	SOTA Explained	**$25.99**
RSG-STL3	Stealth Antennas, 3rd Edition	**$31.99**
RSG-SUWA	Successful Wire Antennas	**$31.99**
RSG-SWRE	SWR Explained	**$17.99**
RSG-THNG	50 Things to Do w/ Amateur Radio	**$28.99**
RSG-UGPS	Using GPS in Amateur Radio	**$32.99**
RSG-UHRP	Understanding Ham Propagation	**$30.99**
RSG-WWDM	Work the World with DMR	**$32.99**
RSG-WWDS	Work the World with D-STAR	**$32.99**
RSG-WWSF	Work the World w/ System Fusion	**$32.99**
RSG-YAEX	Yagi Antennas Explained	**$31.99**

DXEngineering.com

We're always adding and developing innovative products that improve your on-air experience. Find the hottest new gear (including all the latest stuff that we couldn't cram into this catalog) at DXEngineering.com.





RSGB Radio Today Guides

If you're looking for a sure-fire way to get the most out of your new transceiver, RSGB's Radio Today Guides by Andrew Barron, ZL3DW, take you far beyond what you'll find in the factory instructions. Each paperback doesn't simply repeat what's in the manual. They serve as a step-by-step "how-to-do-it" reference, covering a myriad of invaluable topics: setting up the rig, using the array of controls, operating in different modes, troubleshooting, accessing deeper menu layers, and taking advantage of new features from firmware upgrades.

RSG-RT97	Radio Today Guide to the Icom IC-9700	**$32.99**
RSG-RT76	Radio Today Guide to the Icom IC-7610	**$32.99**
RSG-RT73	Radio Today Guide to the Icom IC-7300	**$32.99**
RSG-RT75	Radio Today Guide to the Icom IC-705	**$32.99**
RSG-RT86	Radio Today Guide to the Icom IC-R8600	**$31.99**
RSG-RT905	Radio Today Guide to the Icom IC-905	**$31.99**
RSG-RT101	Radio Today Guide to the Yaesu FTdx101	**$32.99**
RSG-RT10	Radio Today Guide to the Yaesu FTDX10	**$32.99**
RSG-RT710	Radio Today Guide to the Yaesu FT-710	**$32.99**
RSG-RT91	Radio Today Guide to the Yaesu FT-991A	**$32.99**
RSG-RTX6	Radio Today Guide to the Xiegu X6100	**$30.99**

Ham Radio Guide



This updated spiral-bound 87-page guide is filled with useful information compiled in a single book for quick reference. Printed on strong, laminated card stock, the Ham Radio Guide by Giovanni Scavino, IK0WMJ, includes country and prefix lists; band plans of IARU regions 1,2 and 3; a comprehensive overview of national amateur radio organizations; a fold-out world map showing all prefixes, CQ and ITU zones, time zones, and world grid locator displaying maidenhead or QTH grid squares; associations, leagues, official societies, and QSL bureaus; license reciprocity between different countries and maximum legal power by country; and much more.

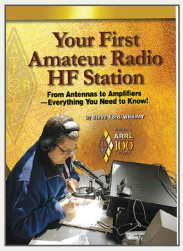
RFO-35020-US	Ham Radio Guide	**$89.99**

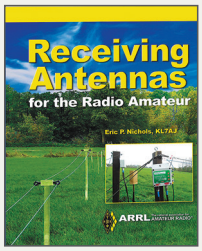
Our catalog is only the beginning! See thousands of products at DXEngineering.com

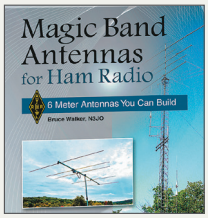
⚠ WARNING: For Proposition 65 information, see p. 3

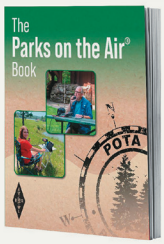
ARRL Literature

Stay up to date with the latest technological advances in our hobby. Books from the ARRL are the go-to resource for amateur operators of any expertise level. Build your technical library with ARRL publications.

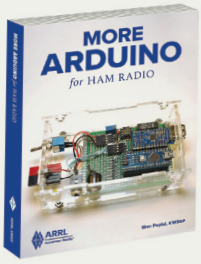
















Log Books

Reference

ARR-0741	Best of The Doctor is In, Paperback	$19.95
ARR-1205	ARRL Operating Manual, 12th Edition	$24.95
ARR-1595	Get on the Air with HF Digital, 3rd Edition;	$22.95
ARR-1731	Here to There Radio Wave Propagation	$22.95
ARR-1748	The Parks on the Air Book, First Edition	$22.95
ARR-1960	Portable Operating Log Book	$9.95
ARR-1977	Hints and Kinks for the Radio Amateur	$22.95
ARR-2011	2024 ARRL Handbook, 1,280 Pages	$69.95
ARR-2073	2024 ARRL Handbook, 6 Volume Set	$69.95
ARR-2172	FCC Regulations for Radio Amateurs	$7.95
ARR-2332	Repeater Directory 2026 Desktop Edt.	$22.95

Antennas and Antenna Building

ARR-0789	Receiving Antennas	$27.95
ARR-0994	HF Dipole Antennas	$22.95
ARR-1762	Antenna Book, 25th Edition, Soft Cover	$69.95
ARR-2226	Salty Walt's Portable Antenna Sketchbook;	$25.95
ARR-2257	ARRL Antenna Compendium, Vol. 9	$27.95
ARR-2288	Stealth Antennas for Ham Radio	$22.95
ARR-2325	Small Antennas for Small Spaces., 3rd Ed.	$22.95

Educational

ARR-0004	Morse Code Operating	$12.95
ARR-0079	Your First Amateur Radio HF Station	$22.95
ARR-0823	Understanding Basic Electronics	$32.95
ARR-1243	Contesting for Beginners	$24.95
ARR-1281	Microcontroller Projects	$39.95
ARR-2189	Ham Radio from Indoors	$17.95
ARR-2233	Hints & Hacks for the Radio Amateur	$22.95
ARR-2240	Using the Baofeng Radio	$19.95
ARR-8314	Your Introduction to Morse Code	$15.95
ARR-2349	Digital Networking for Ham Radio	$34.95

Software and Digital Modes

ARR-1281	Microcontroller Projects/Amateur Radio	$39.95
ARR-1472	More Arduino for Ham Radio, 384 Pages	$39.95
ARR-1984	Best of Arduino Projects for Ham Radio	$39.95

EMCOMM and HF

ARR-0802	Portable Operating for Amateur Radio	$22.95
ARR-1410	Storm Spotting & Amateur Radio 3rd Ed	$22.95
ARR-5439	ARES Field Resources Manual	$12.95

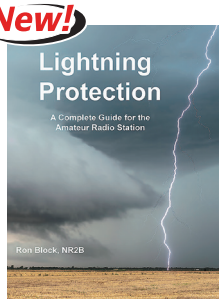
Log Books, Notebooks, Pocket References

Ditch the box-store notepads and log your contacts quickly and accurately.

ARR-1250	Station Log Book	$9.95
ARR-7539	MINILOG Book	$7.95

Lightning Protection: A Comprehensive Guide for the Amateur Radio Station

New!

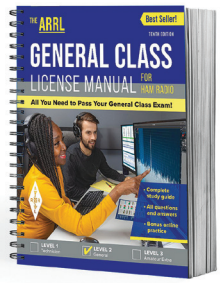


Targeted specifically to hams, the book presents the theory behind the protection scheme starting with lightning theory and our vulnerability to its destructive effects and continues with a practical implementation guide. Written by Ron Block, NR2B, the 132-page spiral-bound reference covers what needs to be protected, your zone-of-protection, the creation of a single-point ground panel (SPGP), bonding of the SPGP to an external ground system, and more. Numerous examples and drawings included.

WRB-LIGHTNING-SB Lightning Protection for Amateur Radio Book $35.00

License Manuals



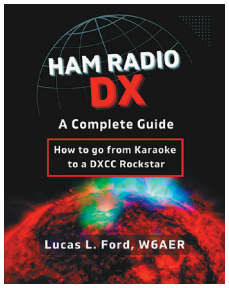


For decades, amateur operators have trusted the ARRL License Manuals to help them pass their exams. The books include easy-to-understand lessons and a comprehensive set of sample exam questions. They're the perfect companion for the ARRL's Exam Review for Ham Radio™ online resource available for free at ARRL.org. Guides contain the FCC question pool.

ARR-1557	Tech Class License Manual*, Spiral Bound	$32.95
ARR-1601	Tech Q&A Guide* Paperback	$14.95
ARR-1717	General Class License Manual, Spiral Bound	$32.95
ARR-172-4	General Q&A Guide, Paperback	$14.95
ARR-1939	Extra Class License Manual, Spiral Bound	$32.95
ARR-1946	Extra Q&A Guide, Paperback	$14.95

***These Technician study guides contain the question pool that expires June 30, 2026. Enter "ARRL Technician" at DXEngineering.com for the updated manuals with question pool for exams taken from July 1, 2026 through June 30, 2030.**

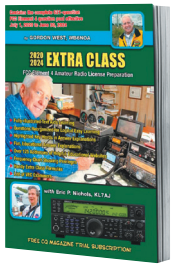
Ham Radio DX: A Complete Guide



Award-winning DX enthusiast Lucas L. Ford, W6AER, imparts nearly 300 pages of real-world advice and "been there, done that" wisdom covering everything from building your DX station to busting through pileups, choosing an antenna to proper DXing etiquette. There are separate chapters on DXing in CW, Phone, and Digital; FT8 operating; dealing with RFI; use of ferrites, low-band antennas, baluns, and grounding; when and where to work DX; and much more. The book, put out by Vitamin DX Publishing, includes more than 100 photos and illustrations. Ham Radio DX makes a comprehensive addition to your ham radio library whether you're a novice or experienced DXer.

VDX-DX-GUIDE Ham Radio DX: A Complete Guide $24.99

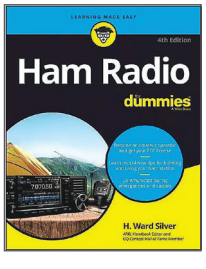
ARRL Gordon West License Study Guides



Now published by the ARRL, these comprehensive study guides by noted ham Gordon West, WB6NOA, contain all the information you need to pass your Technician, General, or Extra Class exam. Each paperback includes the current question pool (exactly as questions will appear on the exam) with explanations of why each answer is correct. Books include illustrations, diagrams, photos, and WB6NOA's unique style that makes earning your Tech license or upgrading fun and easy. Along with insights from technical editor Eric P. Nichols, KL7AJ, the guides lead you through logically organized groups of questions to help you absorb and retain information.

ARR-1908	ARRL Gordon West Tech Class Study Guide, 2022-26	$29.95
ARR-1915	ARRL Gordon West General Class Study Guide 2023-27	$32.95
ARR-1953	ARRL Gordon West Extra Class Study Guide 2024-28	$32.95

Ham Radio for Dummies, 4th Edition



Written by Ward Silver, N0AX, the latest edition of this essential reference offers expanded coverage of the ever-evolving world of ham radio, providing both novice and experienced hams with plenty to chew on. Its 432 pages touch on the gamut of amateur radio topics, including how to pass your licensing test, tips on building your station, troubleshooting RF interference, communicating during emergencies, technical fundamentals, and what's new in amateur radio tech (WSJT modes, SDRs, and more). Written in a friendly, welcoming style, Ham Radio for Dummies offers untold hours of great reading and many additional online references where you can dig even deeper into the rabbit hole of ham radio.

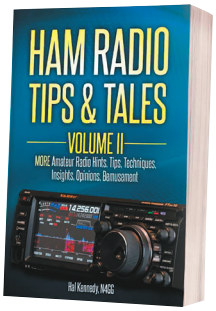
DMV-DUMMIES-4TH Ham Radio for Dummies, 4th Edition ... $34.99

We stock many more items than we can show. See them all at DXEngineering.com!

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New!

Ham Radio Tips & Tales



There's something for everyone in these paperbacks by Harold (Hal) Kennedy, N4GG. The two volumes are filled with actionable technical advice to help you get the most from your ham radio experience, operating insights, and humorous storytelling sure to amuse and inform both new and experienced operators. Chapters include tips on building a better station that's easier to operate and could save you money, answers to age-old amateur radio questions, and more, always infused with the spirit of fun that's why we all jumped into the hobby in the first place.

NGG-TIPSTALES1 Ham Radio Tips & Tales Vol. 1, 204 Pages **$16.99**
NGG-TIPSTALES2 Ham Radio Tips & Tales Vol. 2, 294 Pages..... **$16.99**

CHOYONG

LC90 Multiband Smart Internet Radio



From Choyong, a company that has earned a reputation for its user-friendly and technologically advanced products since 2013, comes the LC90 radio that seamlessly combines traditional and Internet radio functionalities while offering connectivity to over 40,000 stations worldwide via 4G or 2.4G Wi-Fi. Whether at home or outdoors, enjoy streaming stations by inserting a 4G SIM card. The LC90 also connects to your phone's hotspot for added convenience. The LC90 supports AM, FM, LW, SW, and SSB radio reception. Features include Bluetooth 5.0 speaker 256GB flash memory card player capable of handling formats including APE, FLAC, WAV, MP3, and M4A; superior sound system with a two-way frequency division design; aluminum alloy knobs, backlit keyboard, and backlit color IPS LCD; telescopic whip antenna and support for an external antenna; firmware updates; and 48 hours of continuous operation from two 18650 rechargeable lithium batteries.

CYR-LC90 Multiband Smart Internet Radio..... **$249.00**

artSci
Where ART and Science work for you

Q-View QSL Card Holders



Knee-deep in QSL cards? Art Sci has the perfect solution to protect, organize and display those hard-earned contacts. You can hang them on your wall or fold the holders neatly for storage.

Each package includes a pair of holders that can fit 20 cards a piece, for a total of 40 cards—rescued off of your bench, nightstand, desk and kitchen table. Select from a standard U.S. postcard size (3.5" x 3.5") or the larger international card size (4" x 6").

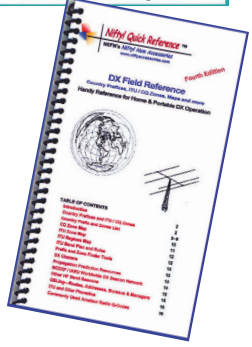
SIA-QSL-VIEW Q-View QSL Card Holder, U.S. ... **$19.95**
SIA-QSL-VIEWINTL Q-View QSL Card Holder, International..... **$19.95**

Reference and Operating Guides

Nifty!



Stay up-to-date with the latest modes, band plans, frequency allocations and more. These Nifty guides are indispensable resources for your shack, EMCOMM trailer or club library. DX Engineering also has over 100 of Nifty Reference Guides and Quick Reference Cards, covering a wide range of amateur radio equipment. Visit DXEngineering.com to see them all.



Part Number	Description	Price
NIF-EZ-D-STAR	E-Z Guide to D-STAR Operation	$18.95
NIF-EZ-ECHOLINK	E-Z Guide to EchoLink Operation	$18.95
NIF-MM-BANDPLAN	HF/VHF/UHF Bands Operating Guide	$13.95
NIF-MM-DXFIELD	DX Field Reference	$21.95
NIF-MM-RADIOMG	Radio Monitoring Guide	$21.95

In-Stock Parts Typically Ship The Same Day.



GEOCHRON®

Digital Atlas 3 4K

Geochron has made it easier than ever for operators to enjoy all the functionality and ham-friendly features of its mechanical world clock—at a fraction of the cost.

The Digital Atlas 3 4K gives viewers magnificent displays of the Earth with sunrise-sunset rendered in real time through a small computer that plugs directly into a 4K TV (not provided) via HDMI.

The size of the display is only limited by the size of your TV. The Ham Radio mapset comes packed with features made for amateur radio operators, including display of the "Grey Line" (the band around the Earth separating daylight from darkness) in real time—a huge benefit for optimizing long-distance communication. It also includes DX and International Prefixes; Country Names and Borders; Equatorial, Latitude and Longitude, and Tropic Points of Reference; Major Topographical Features; the Analemma, Showing the Sun's Position at Relative Noon; and Month, Day, and Hour of Every Time Zone on Earth, Including Zulu Time.

Version 3 comes with all the features hams have come to love about Digital Atlas 2 plus much faster processing speeds and an upgraded graphics platform. Lifetime updates with internet service for the ham radio and these other mapsets are included:

- Geopolitical with Human Points of Interest
- Topographical "View from Space"
- Geopolitical with Ocean Points of Interest

Other features include:

- Continuously updating Global Satellite Weather Overlays showing precipitation, wind speed, barometric pressure, temperature, and cloud cover
- Static overlays of Earth at night, major shipping routes/flight routes, carbon monoxide pollution, and simultaneous UTC with local time readout
- Live location of the ISS and over 300 satellites updated every second
- 16 locations pins with custom text names and local time that you can place anywhere on the map

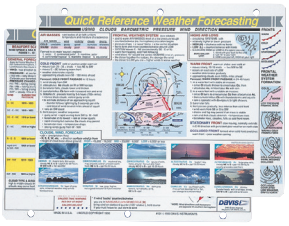
Along with the mini-computer, you receive a three-foot cord power supply; one-foot HDMI cable, male to female; remote control and AAA batteries; one-year warranty; and new updates as available with user-provided Internet service.

Enter "GEO Atlas" at DXEngineering.com for full details and information on adding the subscription-based Ham Radio Premium Bundle.

GEO-ATLAS-3 Digital Atlas 3 4K..... **$549.00**

DAVIS Instruments

Weather Forecasting Quick Reference Cards



This card shows you how to use the information from your fancy weather station. It tells you how to interpret barometric pressure, wind direction, cloud types and more. Get years of meteorology lessons on a single card—perfect for weather-watchers, boaters and Hams.

DVI-131 Weather Forecasting Quick Reference Cards, Set of Two..... **$24.99**

DAVIS Instruments

Davis Instruments Weather Stations & Accessories



Davis Instruments offers a huge selection of dependable, durable, and accurate weather stations and accessories, including their Vantage Pro 2 Wireless Weather Stations that provide weather monitoring with real-time data updates every 2.5 seconds; wireless sensor interfaces; anemometers; solar radiation sensors; solar power kits; wireless weather station repeaters; temperature probes; weather station tripods; and more. **Enter "Davis" at DXEngineering.com for the full lineup.**

PicoAPRS and VHF Transceiver with GPS Receiver & PicoAPRS-Lite Module



Version 4 of the matchbox-size (1.3" x 2.6" x 1") PicoAPRS Transceiver with GPS Receiver comes with all the features/applications of Version 3 (APRS tracker, receiver for APRS data, GPS tracker) but adds a VHF 2-meter handheld transceiver with PTT button, microphone, speaker, stored memories, color display and much more—all without significantly increasing its size. It also comes with a larger 240 x 240 color pixel display to show incoming APRS packet data; joystick-style front buttons; KISS data protocol for packet radio via side-mounted USB-C socket, Bluetooth, or Wi-Fi; and WLAN interface that simplifies software maintenance. Updates can now be installed with a built-in web server. The transceiver can be used not only as an APRS tracker and receiver for APRS data but also as a TNC for the computer. The device comes almost fully preconfigured. With five simple keys, all settings are accessible, even without a computer. Transmit power is approximately 1W and can be switched down to 0.5W. Position data is transmitted as compressed MIC-E APRS messages to keep transmit duration as short as possible. The built-in 850mAh Li-Ion battery allows operation up to 10 hours. Charging cable and antenna not included. Device takes any antenna with SMA connection. Weighing only 7.2 grams, the PicoAPRS-Lite Transceiver Module is ideal for reliably tracking balloon flights with APRS payload as well as for many other APRS purposes. Features include automatic or manual frequency tuning on request.

WMO-PICOAPRS-VHF PicoAPRS and VHF Transceiver **$429.99**
WMO-PICOAPRSLITE PicoAPRS Transceiver Module **$169.99**

Weather Alert Multi-Powered Digital Tuning Radio

SANGEAN



The MMR-99 delivers excellent performance and peace of mind in a rugged package. This emergency radio covering AM/FM-RDS and seven NOAA weather channels can be charged by hand-cranking, DC-In power by USB Type-C, or by included solar panel. The radio also serves as a portable battery to charge smaller devices and can be used as a flashlight with 15 different lighting patterns for emergencies or other situations. It runs on a rechargeable 18650 Li-Ion 3.7V/2600mAh battery and comes with weather alert functionality, memory bank with up to 40 station presets for AM/FM radio, Auto Tuning System (ATS), adjustable bandwidth, Bluetooth, IPX55 rating against dust and water, PP reinforcements on each corner to resist damage from drops, and more.

SGN-MMR-99 Digital Tuning Emergency Radio **$169.99**

SANGEAN

CL-100 Weather Alert Radio



Keep an ear on the NOAA weather bands with this high-quality desktop radio. It features an Emergency Alert to automatically turn on and warn you of impending weather advisories. The radio is programmable for one-button tuning and has an AM/FM tuner as well. The large LCD screen displays weather alerts and RBDS information.

It's a great bedside radio too, with an alarm clock, snooze button and dimmable display. An AUX jack lets you plug in an external audio device.

SGN-CL-100 Weather Alert Radio **$159.99**

SANGEAN

ATS-909X2 World-Band Portable Radio



Sangean's ATS-909X2 World-Band Portable Radio offers significant improvements in functionality while refining the excellent features of the previous ATS-909X model. It features a larger LCD screen, Air Band, a separate headphone amplifier, SSB tuning steps of 10 Hz or 20 Hz, and so much more! The newly designed smart battery system allows the radio to detect faulty batteries and locate its position in the battery compartment when plugged in for charging under standby mode.

SGN-ATS-909X2 World-Band Portable Radio **$499.99**

SANGEAN

DT-200X Pocket Radio



You don't accept compromises in your Ham gear, and you shouldn't accept them in your broadcast radios either. Sangean's Pocket Radio gives you FM/AM broadcast bands with 19 presets and a built-in speaker and clock. The auto turn-off feature will conserve its two AA batteries (not included) and the removable belt clip means this radio doesn't necessarily have to live in your pocket.

SGN-DT-200X Pocket Radio **$79.99**

DX ENGINEERING

DX Engineering Logo UltrAtomic® Wall Clock



This 14" diameter analog clock (the DXE version of the La Crosse Technology clock) makes a practical and attractive addition to any amateur radio station. The highly accurate and reliable UltrAtomic receives the enhanced phase modulated WWVB broadcast signal from the National Institute of Science and Technology, allowing the radio time signal to "break through" barriers like cement walls, unlike previous PWM-only atomic clocks. Using advanced technology, it digitally processes the received signal via an integrated circuit within the clock for unparalleled time signal reception even in conditions that interfere with the original radio-controlled clock reception using the legacy AM signal broadcast. For daylight saving time, users can choose to have the clock automatically advance the hands one hour in the spring and eleven hours in the fall to move back one hour. The clock features a stainless steel frame bezel, black metal hands, glass lens, and low-battery indicator. It's powered by two or four "C" LR14 batteries (not included).

DXE-ATOMIC-CLOCK DX Engineering Logo UltrAtomic Wall Clock **$89.99**

Wireless Combo Weather Station



It's like having a personal meteorologist at your disposal (without all the chatty on-air banter)! The La Crosse S81120 Wireless Weather Station delivers live weather data monitoring, including outdoor temperature, barometric pressure, relative humidity, dew point, "feel like" temperature, wind speed, and wind direction. It lets you easily toggle between indoor/outdoor readings and provides temperature/humidity/wind speed alerts, wind speed history, four language settings (English, French, German, and Spanish), 3.77" x 7.01" x 1.14" color LCD, 12/24 hour time setting, your choice of five backlighting settings for customized viewing, and HI/LO records with time/date stamp. Can be wall-mounted or freestanding. Sensors and mounting bracket included.

LST-S81120 Wireless Combo Weather Station **$121.99**

Wireless Weather Stations



Get real-time weather data right from your own backyard at an affordable price with the 308-1425B Wireless Weather Station! This versatile and powerful station lets you monitor barometric pressure, as well as indoor and outdoor temperature and humidity; set customizable temperature alerts; view pressure trends; and keep track of moon phases. No wires or cables required. Dynamic color-forecast icons change based on the weather conditions. The console also displays atomic time and date. The V42 Wireless Professional Weather Station includes sensors for tracking wind speed, wind direction, rainfall, temperature, and humidity. The dynamic, high-definition color display shows indoor and outdoor data points plus daily/hourly AccuWeather forecasts. It can also be combined with the View App for further functionality.

LST-308-1425B Wireless Weather Station **$76.99**
LST-V42-PRO-INT V42 Wireless Professional Weather Station **$213.99**

Enter "La Crosse" at DXEngineering.com for the full lineup of La Crosse Technology complete wireless weather stations, temperature and humidity stations, rain gauges, wall clocks, desk clocks, and indoor/outdoor thermometers.

Pocket Pad



With no batteries to charge and no software to update, our new Pocket Pad is a handy way to record notes and ideas. Better yet—it's compatible with both pen AND pencil. The Pocket Pad is the perfect size for a shirt pocket and has 80 lined notebook pages.

DXE-POCKET-PAD Pocket Pad **$7.99**

Gel Mouse Pad



Whether checking out articles on OnAllBands.com, making FT8 contacts, or working in the office, you'll appreciate having this soft, gel-filled wrist pad that provides the support you need to prevent fatigue. The 9" x 7.50" x 1" pad features a non-slip rubber base that keeps it firmly planted on the desk for worry-free clicking. The DX Engineering logo is silkscreened in the center of its black jersey polyester cover.

DXE-GEL-MOUSEPAD DX Engineering Gel Mouse Pad **$24.99**

DXEngineering.com is loaded with detailed photos, specs, videos, and more!

⚠ **WARNING:** For Proposition 65 information, see p. 3



Mugs and Tumblers

Staying hydrated or sufficiently caffeinated is important during marathon sessions on the air. You'll find the quality beverage containers you need at DX Engineering, including the DX Engineering logo 30 oz. vacuum-insulated tumbler made from double-wall stainless steel. Equipped with a leak-resistant, gasket-sealed acrylic lid, this "Kong-sized" vessel (8" tall) is designed to keep drinks hot for two hours and cold for up to 36 hours! Also check out the dishwasher-safe 40 oz. Travel Tumbler with secure lid and DX Engineering logo.

DXE-COFFEEMUG	White Coffee Mug	**$10.99**
DXE-40OZTRAVELBK	40 oz. Stainless Steel Travel Tumbler with Handle	**$19.99**
DXE-30OZ-TUMBLER	30 oz. Stainless Steel Tumbler	**$31.99**
DXE-LOGO-MUG	16 oz., Coffee Mug Flecked White Exterior, Black Interior	**$19.99**
DXE-17OZ-SSMUG	17 oz. Stainless Steel Mug	**$25.99**

DX Engineering Christmas Tree Ornament



Brighten your home, work cubicle or shack with this 3.25" crystal ornament. Made in the USA from shatterproof material and given a shining red finish, it's an accessory that will surely put your ham friends in the holiday spirit and tell everyone where you get your amateur radio gear!

DXE-ORNAMENT-RED Christmas Tree Ornament **$9.99**

DX Engineering Kneeling Mat



If you've ever dreaded cleaning the bathtub, weeding the vegetable garden, or lowering yourself to the floor to untangle some wires under a desk, worry no longer. The DX Engineering Kneeling Mat makes it much easier to finish chores in the yard, the shack, and around the house without putting undue stress on your knees. Made from EVA foam, the 19" L x 11.5" W pad is the perfect solution for making on-the-ground activities a lot more comfortable.

DXE-KNEELPAD Kneeling Pad **$16.99**

Graph Paper Pads



A great choice for antenna design, mapping out your antenna farm or homebrew brainstorming, these graph paper pads are made of high-quality paper and are bonded with clear, flexible adhesive across the top. The DX Engineering logo is in full color in the upper left corner of the bright-white paper (8" x 11", 50 pages). Large graph squares are just under 1" on a side. There are 10 on the long side of the page and eight squares across. They are divided into 10 x 10 graphing subdivisions, providing 100 tiny boxes in each large square.

DXE-GRAPHPAPER Graph Paper Pad **$17.99**

Shortwave Radios and Home Emergency Products



EON-NELITEMINI



EON-NELITEEXECUT

DX Engineering is pleased to now carry shortwave radios and home emergency items from Eton Corporation—an American company that has gained a strong worldwide reputation for its innovative and trusted products since 1986.

Elite Series Shortwave Radios

Eton's finely crafted portable radios come in a range of configurations, all loaded with state-of-the-art features. Choose from the compact and powerful Elite Executive model, which comes in an attractive leather case, receives AM(MW), FM with Radio Data System (RDS), LW, SW, SSB, and VHF Aircraft band frequencies, plus includes a PLL tuner to ensure AM signals are strong and clear. The Bluetooth-ready Elite Field radio lets you enjoy AM (MW), FM with RDS, and SW frequencies along with streamed music and podcasts. The Elite Traveler (AM-MW, FM, LW, and SW) features 500 memory stations and sleep timer/alarm clock, making it a great companion on the road. Finally, the Elite Mini AM/FM shortwave model comes in a custom leather pouch and packs a powerful punch thanks to its internal AM antenna and telescoping FM/SW antenna for local and worldwide listening. **Enter "Eton Elite" at DXEngineering.com for more details.**

EON-NELITEEXECUT	Elite Executive AM/FM/LW/SW Portable Radio	**$199.99**
EON-NELITEFIELD	Elite Field AM/FM/SW Bluetooth Portable Radio	**$169.99**
EON-NFIELD-BAG	Synthetic Leather Satchel for Elite Field Radio	**$39.99**
EON-NELITETRAVEL	Elite Travel AM/FM/LW/SW Portable Radio	**$79.99**
EON-NELITEMINI	Elite Mini AM/FM/SW Portable Radio	**$49.99**

Emergency/Weather Radios



EON-NFRX5QUEST



EON-ARCFRX2WXW

Don't get caught unprepared! The reliable and versatile lineup of Eton emergency/weather radios includes the Scorpion II, which features a rugged exterior with an aluminum carabiner for extreme outdoor conditions. The ZoneGuard model includes seven built-in NOAA/Environment Canada weather band stations and the ability to enter your county code to receive audible and visual weather alerts. The FRX2 model features a flashlight and 1,000 mAh Li-Ion battery that is rechargeable by built-in solar panel, hand crank, or included mini USB cable. The Odyssey is equipped with multiple power options, including hand-cranking, along with Bluetooth connectivity. The Bluetooth-ready QUEST model features crystal-clear sound with static-eliminating DAB+ technology. **Enter "Eton Weather Radio" at DXEngineering.com for more details.**

EON-NSP101WXGR	Scorpion II Multi-Purpose AM/FM/NOAA Radio	**$69.99**
EON-ARCZG100W	ZoneGuard AM/FM/NOAA Weather Radio	**$79.99**
EON-ARCFRX2WXW	FRX2 Compact AM/FM/NOAA Weather Radio	**$49.99**
EON-ARCODYSSEY	Odyssey AM/FM/SW/Weather Band Bluetooth Emergency Radio	**$99.99**
EON-NFRX5QUEST	QUEST AM/FM/Weather Band Bluetooth Emergency Radio	**$129.99**
EON-ARCJOURNEY	Journey AM/FM/SW/Weather Band Compact Emergency Radio	**$69.99**

Emergency Lights



EON-ARCPT100W

The compact Blackout Buddy Swivel Emergency Flashlight is a great way to light up a trail, brighten a tent, or serve as a nightlight. The swivel lets you direct the light where you need it. Plus, when plugged into a 120VAC outlet, the three-LED Blackout Buddy automatically illuminates when the AC power goes out (lasts up to four hours on a single charge). The Road Torq Self-Powered Spotlight and Emergency Beacon features durable aluminum construction, foldable reflective legs, a bright 1W LED spotlight, and a three-LED flashing beacon. Just give its hand-crank a few twists and it comes to life (two minutes of cranking typically yields 15 minutes of usable power). Includes input and output USB charging for smartphones and other devices. Comes with Li-ion battery, carrying pouch, and car power adapter. **Enter "Eton Lights" at DXEngineering.com for more details.**

EON-ARCBB201WSNG	Blackout Buddy Swivel Emergency Flashlight/Nightlight	**$14.99**
EON-ARCPT100W	Road Torque Self-Powered Spotlight/Emergency Beacon	**$49.99**
EON-ARCCR100RSNG	Clipray Hand Crank, Clip-On Flashlight/Phone Charger	**$14.99**

DX Engineering Folding Chair



Made from water-resistant poly-canvas, this durable chair is designed for heavy-duty use. This folding chair supports 350 lbs. and is big enough to be comfortable! It also has an HT or beverage holder in one arm—Brown 807s anyone? It's perfect for extra seating on the deck or in the yard. When you're looking for a new camp-type folding chair, remember this rugged, large DX Engineering Folding Chair.

DXE-FC-1BK Folding Chair with Bag **$29.99**

DX Engineering Umbrellas



Open the DX Engineering Logo Umbrella when you need to keep the sun from baking your equipment (or your neck) during Field Day. Its 36" diameter is made to cover you, your gear or the XYL. It collapses to a compact size and includes a carrying pouch.

DXE-UMBRELLA **$9.99**

Golf Umbrella

For maximum protection from whatever Mother Nature dishes out on your outdoor operating adventures, go with the 54" diameter DX Engineering Logo Golf Umbrella. It's collapsible for easy transport, comes with a handy carrying sleeve, and lets you tell the neighboorhood, your golfing buddies, or ham friends where you get your amateur radio gear.

DXE-GOLFUMBRELLA **$17.99**

DX Engineering carries equipment from more than 180 top manufacturers!

⚠ **WARNING:** For Proposition 65 information, see p. 3


Rapid Dry™ Mesh Polo


Pocket Polo

Classic Polo

DX Engineering Polo Shirts

When your next club event or Hamfest calls for business casual attire, reach for the classic red, black and white DX Engineering polo shirt. They're made of a lightweight, breathable polyester weave for outdoor and indoor comfort. Available in a variety of men's sizes.

Classic Polo Shirt

DXE-TMA-100__ Classic Polo Shirt ..... from **$39.99**

Rapid Dry™ Mesh Polo Shirts

These stylish and comfortable red shirts featuring an embroidered DX Engineering logo combine a smooth cotton feel with Rapid Dry moisture-wicking mesh cotton/poly material that offers breathable performance for all-day wear. Available in men's and women's styles and sizes.

DXE-TMA-1105__ Rapid Dry™ Mesh Polo Shirt, Men's ..... from **$39.99**
DXE-TMA-1106__ Rapid Dry™ Mesh Polo Shirt, Women's ..... from **$39.99**

Pocket Polo Shirt

Look sharp, professional, and a bit like Johnny Cash in these black, snag-proof polyester polo shirts featuring an embroidered DX Engineering logo and left front pocket. Pocket Polo Shirts are available in men's small to 4X-large. **Enter "pocket polo" at DXEngineering.com for more details.**

DXE-TMA-1203_ Pocket Polo Shirt ..... from **$42.99**



DX Engineering Sweatshirts

When the weather's on the chilly side and you've got connector weatherproofing on your to-do list, slip on this sweatshirt and you'll soon be thinking warm thoughts about the hobby you love. Made from comfortable cotton/poly fleece, this high-quality long-sleeve sweatshirt features an embroidered DX Engineering logo that's durable and won't fade in the wash. Choose from navy blue, gray, light gray and green in men's small to 4X-large sizes.

DXE-TMA-111_ Sweatshirt ..... from **$28.99**



DX Engineering Pullover Hooded Sweatshirts

These finely made 50/50 blend cotton/poly fleece hoodies are perfect for chilly days of outdoor antenna repairs or for just tooling around the house thinking warm thoughts about the next major contest. They feature front pouch pocket, 3" rib knit cuffs and hem, tear-away label, and embroidered DX Engineering logo that won't fade in the wash. Available in dark heather gray, heather maroon, and olive drab green, men's sizes small to 4X-large. **Enter "Hooded Sweatshirt" at DXEngineering.com.**

DXE-TMA-411_ Pullover Hooded Sweatshirt ..... from **$34.99**



DX Engineering Zippered Hooded Sweatshirts

This cotton/poly fleece hoodie, featuring a color-fast embroidered DX Engineering logo, is the kind of apparel you can put on in the morning and wear all day without thinking twice. Heck, go ahead and sleep in it if you'd like—it's that comfortable! Its full zipper closure lets you decide if you want to keep drafts out or let some air in. And the attached hood is great for keeping sun and rain off your head, or for going incognito. Includes front pockets and draw cords. Choose from royal blue, charcoal or black in small to men's 4X-large sizes.

DXE-TMA-211_ DX Engineering Hooded Sweatshirt ... from **$43.99**



DX Engineering Sport-Wick® Stretch 1/4 Zip Long-Sleeve Pullover

Enjoy the style, warmth, and comfort of these polyester/spandex blend long-sleeve pullovers with the DX Engineering logo embroidered on the left chest. They're available in Black, Red, Charcoal, and Royal Blue in men's and women's small to 4X-large. Tall sizes are also available.

DXE-TMA-81_ Women's Stretch 1/4 Zip Long-Sleeve Pullover **$47.99**
DXE-TMA-82_ Men's Stretch 1/4 Zip Long-Sleeve Pullover **$47.99**
DXE-TMA-83_ Tall Men's Stretch 1/4 Zip Long-Sleeve Pullover **$50.99**



DX Engineering Logo Women's Apparel

DX Engineering now carries a full lineup of comfortable, quality-made clothing with the DX Engineering logo in women's sizes from small to 4X-large. Get yours now for Field Day!

DXE-TMA-711_ V-Neck Short-Sleeve T-Shirts ..... from **$26.99**

Featuring tri-blend softness, these stylish and nice-fitting T-shirts come in Heather Gray or True Royal Heather.

DXE-TMA-721_ Lightweight Long-Sleeve Hoodies ..... from **$28.99**

Conquer your next POTA or SOTA adventure in tri-blended comfort. Choose from Black Frost or Fuchsia Frost colors.

DXE-TMA-731_ 3/4-Sleeve Raglan-Style T-Shirts ..... from **$26.99**

These comfortable tri-blend T-shirts feature a Red Frost/Gray Frost color scheme.



DX Engineering Youth T-Shirts and Baby Rompers

For young ones prone to loudly transmit "CQ-Bottle" in the middle of the night, these DX Engineering Baby Rompers make the perfect attire. They display an embroidered DX Engineering logo on comfortable ring-spun cotton/poly fine jersey material. The gray rompers with red sleeves and trim come in sizes for 6- or 12-month-olds and feature flatlock stitch ribbed collar and raglan armholes, double-needle sleeves, double-needle ribbed binding on leg openings, and a three-snap closure. When they outgrow it, just pack it away in a cedar chest and present it to them when they've earned their DXCC! For growing hams, the classic 100% cotton black DX Engineering T-shirt is now available in youth sizes small to X-large.

DXE-TMA-51111 Black T-Shirt, Youth Size, Small **$16.59**
DXE-TMA-51112 Black T-Shirt, Youth Size, Medium **$16.59**
DXE-TMA-51113 Black T-Shirt, Youth Size, Large **$16.59**
DXE-TMA-51114 Black T-Shirt, Youth Size, X-Large **$16.59**
DXE-TMA-61111 Baby Romper, 6 Months **$22.99**
DXE-TMA-61112 Baby Romper, 12 Months **$22.99**

In-Stock Parts Typically Ship The Same Day.

⚠ **WARNING:** For Proposition 65 information, see p. 3



Redcap Short-Sleeve Work Shirt

Here's the perfect attire for when there's work to be done around the shack. These Redcap work shirts are made from a high-quality 4.25 oz. 65/35 poly-cotton blend, making them comfortable and rugged enough to stand up to the toughest jobs. The shirt features the latest stay-clean technology so they look sharp throughout the day, superior color retention, two button-through front pockets, open collar with sewn-in stays, and embroidered DX Engineering logo. Available in Black, Charcoal, and Navy in men's small to 4X-large.

DXE-TMA-131_ Redcap Short-Sleeve Work Shirt..... from **$37.99**



DX Engineering Knit Caps

Whether shoveling a path out of your shack or making QSOs on Winter Field Day, tell the world you're a ham for all seasons with these DX Engineering logo knit caps. These 100% acrylic/polyester, machine-washable, one-size-fits-all hats look great and are made to keep your ears toasty warm. A great gift for amateur radio fashionistas! Available in cuff beanie style (black) and beanie with pom pom (black/gray).

DXE-KNIT-CAP-BK Black Cuff-Style Knit Cap.....**$18.49**

DXE-KNIT-CAP-GY Black/Gray Knit Cap with Pom Pom.....**$19.49**





ARES® Apparel

Whether it's just a drill or an actual EMCOMM deployment, outfit your team with official ARRL ARES gear. Dressed in bright neon, you'll remain visible to other emergency workers and to the community. Lightweight and made from breathable mesh, ARRL ARES Deployment Vests feature large front and back reflector panels. The light neon green vests are imprinted with the words "AMATEUR RADIO EMERGENCY COMMUNICATIONS" on the back and display the ARES logo on the left front. Made from cotton, the ARRL ARES Deployment Hat is one size fits most adults and features a large ARES logo. The ARES hat and vests are ANSI/ISEA 107-2004 Class 2 compliant—a criteria for apparel worn by police officers, firefighters, emergency medical services and other public safety personnel.

ARR-0099 ARES Deployment Hat.....**$20.00**

ARES Deployment Vest

ARR-0128-S-M Small/Medium **$20.00**

ARR-0128-L-XL Large/X-Large.....**$20.00**

ARR-0128-2X-3X 2X-/3X-Large **$20.00**

ARR-0128-4X-5X 4X-/5X-Large **$20.00**



DX Engineering Ball Caps

Arm yourself with the latest in sun blocking, head-covering technology—the DX Engineering Ball Cap. Straight from the Paris runway, this fashionable cap proudly puts on display the full-color DX Engineering logo. It's fully adjustable, for style-conscious amateur operators of all sizes. Then add the Realtree Edge Camo Hat to your ham radio wardrobe! It features a durable 60/40 cotton-poly canvas blend, six-panel camouflage design, pre-curved bill, adjustable closure, and DX Engineering logo. One size fits all adults. Also choose from the stylish acrylic/wool Flat Bill Snapback Hat in heather gray and black; the cotton twill Khaki/Stone Hat with polyester mesh, distressed edging, and snap enclosure; and the 100% polyester Moisture Wicking White Ball Cap with Velcro enclosure.



DXE-HAT Ball Cap.....**$9.99**

DXE-CAMO-HAT Realtree Edge Camo Hat..... **$23.99**

DXE-FLATBILLHAT Flat Bill Snapback Hat..... **$22.99**

DXE-KHAKI-HAT Distressed Khaki/Stone Hat..... **$24.99**

DXE-WHITE-HAT White Ball Cap **$24.99**



Straw Hat

For hams who really want to keep the sun at bay while sorting through hamfest flea market bins or setting up during Field Day, here's your answer. This well-made and stylish straw/polyester hat features an embroidered DX Engineering patch, a wide brim, and convenient draw string. Hat measures approximately 18" x 16.5" wide at the brim.

DXE-STRAW-HAT DX Engineering Logo Straw Hat **$16.99**

New!



Waffle Knit Quarter-Zip Pullover Sweatshirts

Take away the fall POTA chill with this stylish, comfortable, and versatile pullover. This premium, 100% polyester sweatshirt has a textured waffle-knit fabric that provides lightweight warmth without sacrificing breathability. The quarter-zip design makes it easy to layer and adjust for changing conditions, so it's perfect to wear in a park or just relaxing at home. Other features include a cadet collar, tag-free label, and, of course, an embroidered DX Engineering logo. Available in Deep Red, men's small to 4X-large sizes.

Pricing ranges from $47.99 to $51.99. Enter "TMA-8412" at DXEngineering.com for more details.

To take advantage of our Beat-a-Price Guarantee, please Contact Us!





DX Engineering T-Shirts

Ham radio shirts are a great way to meet other operators and make some eyeball QSOs. These 100% cotton shirts come in black or white with a single embroidered DX Engineering logo on the front or with the logo on the front and large on the back, so you can show off your ham pride coming or going. Available in a range of sizes.

White, Single Logo, Embroidered

DXE-TMA-10019 Large.....**$20.99**

DXE-TMA-10020 X-Large **$20.99**

DXE-TMA-10021 2X-Large **$23.99**

Black, Single Logo, Embroidered

DXE-TMA-10016 Large.....**$20.99**

DXE-TMA-10017 X-Large **$20.99**

DXE-TMA-10018 2X-Large **$23.99**

Black, Dual Logos, Silkscreened

DXE-TMA-10061 Small **$17.99**

DXE-TMA-10062 Medium **$17.99**

DXE-TMA-10063 Large.....**$17.99**

DXE-TMA-10064 X-Large **$17.99**

DXE-TMA-10065 2X-Large **$19.99**

DXE-TMA-10066 3X-Large **$20.99**



Front

Long-Sleeve T-Shirt

Perfect for those days when it's not quite right for a short-sleeve shirt but too hot for a sweatshirt, these 100% cotton long-sleeve shirts fit the bill! They feature the DX Engineering logo on the front left chest and large on the back, 1x1 rib knit cuffs, tear-away label, a feel that's soft to the touch, and a comfortable fit. Available in Black, Royal Blue, and Charcoal in men's small to 4X-large.

DXE-TMA-101_ Long-Sleeve T-Shirt... from **$22.99**



Short-Sleeve Pocket T-Shirt

Crafted from premium, ultra-soft cotton that ensures maximum comfort and a great fit, these stylish pocket T-shirts are a great choice for wearing around the house or at your next club meeting. They feature the DX Engineering logo embroidered on the right, strong-seamed shoulder-to-shoulder taping for durability, and tear-away label. Available in Charcoal Heather (60/40 cotton/poly blend) and Deep Red (100% cotton) in men's small to 3X-large.

DXE-TMA-1007_ Short-Sleeve Pocket T-Shirt, Charcoal ..... from **$27.99**

DXE-TMA-1008_ Short-Sleeve Pocket T-Shirt, Deep Red..... from **$27.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3





New!

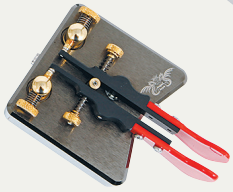
BGL-SCULPTURE-MO



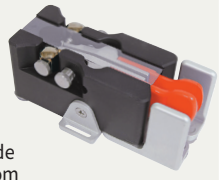
BGL-PEARL-PD



BGL-70ANNIVSTRAD



BGL-SIMPLEX-PD



BGL-MAG-TRAV-BK

Paddles and Keys

Morse code enthusiasts worldwide can now purchase Begali keys from DX Engineering—an official dealer of these expertly crafted Italian-made CW instruments. They have been desired by contesters, DXers, and collectors for their artistry, mechanical design, and performance since Pietro Begali, I2RTF, started producing them in 1964. Models are available in a range of prices and designs to fit any operator's objectives, code-sending style, and CW experience. **Enter "Begali" at DXEngineering.com for more details.**

BGL-70ANNIVSTRAD	70th Anniversary Stradivarius Iambic Paddle Key	**$823.99**
BGL-ADVENTURE-DL	Adventure Dual Lever Iambic Paddle Key	**$423.99**
BGL-DESKTOPBASE	Adventure Key Magnetic Aluminum Base	**$59.99**
BGL-CAMELBACK	Camelback Straight Key	**$238.99**
BGL-ECLIPSE-SSLE	Eclipse Iambic Paddle Key 2016 Limited Edition	**$747.99**
BGL-EXPEDITIONBK	Expedition Twin Paddle Key Black Base	**$399.99**
BGL-HST-MARK-III	HST Mark III Single Lever Iambic Paddle Key	**$410.99**
BGL-INTREPID-RH	Intrepid Semi-Automatic Bug Key	**$659.99**
BGL-LEONESSA-BK	Leonessa High-Speed Dual Lever Iambic Paddle Key	**$551.99**
BGL-MAG-PRO-BK	Magnetic Professional Iambic Paddle Key, Black	**$388.99**
BGL-MAG-TRAV-BK	Magnetic Traveler Light Iambic Paddle Key, Black	**$426.99**
BGL-MAG-TRAV-BU	Magnetic Traveler Light Iambic Paddle Key, Blue	**$426.99**
BGL-MAGNUM	Magnum Heavy Weight Iambic Paddle Key	**$764.99**
BGL-PEARL-PD	Pearl Iambic Paddle Key, Round Palladium Base	**$385.99**
BGL-SCULPTURE-AW	Sculpture Arrow Straight Key	**$601.99**
BGL-SCULPTURE-MO	Sculpture Single Lever Magnetic Paddle Key	**$654.99**
BGL-SCULPTURE-SS	Sculpture Iambic Paddle Key Stainless Steel Base	**$597.99**
BGL-SIGNATURE-PD	Signature Dual Iambic Paddle Key, Magnetic, Palladium	**$373.99**
BGL-SIMPLEX-PD	Simplex Iambic Paddle Key, Spring Return, Palladium	**$250.99**
BGL-SIMPLEXBASIC	Simplex Iambic Paddle Key, Spring Return, Black Cast	**$215.99**
BGL-SPARK	Spark High-Speed Compact Straight Key	**$238.99**



NCE-CH0012513-M



NCE-CH0050002



NCE-CH0030005

K-1 Brass Iambic Double Paddle Key and Straight Keys

CHELEGANCE
JNCRadio

Perfect for portable ops or in the shack, the lightweight (1.5 lbs.) and compact JNCRadio K-1 Golden Brass Iambic Double Paddle Key comes with silver-plated contacts and black plastic finger pieces attached to brass arms that pivot on stainless steel aircraft bearings with brass thumb-screw spring tension and contact spacing adjustments. Three all-brass thumb-screw binding posts provide the connections for a user-supplied cable for an electronic keyer or transceiver. For budget-conscious CW enthusiasts, the CQ-K553 straight key is made from durable stainless steel and comes with a cushioned, non-slip base. The lightweight CQ-K557 straight key model can be used as a training oscillator or for transmitting. It delivers precise keying and clear tones, making it ideal for both practicing and sending accurate signals. Its base is made of mahogany with non-slip rubber pads. The JKEY-25 portable straight key is ideal for beginners or outdoor enthusiasts. Made of lightweight aluminum, it tips the scales at only 11.5 ozs.

NCE-CH0030005	Brass Iambic Double Paddle Key	**$285.00**
NCE-CH0050001	CQ-K553 Straight Key, Chrome Hardware	**$105.00**
NCE-CH0050002	CQ-K557 Straight Key/Practice Oscillator, Wood Base	**$73.50**
NCE-CH0012513-M	JKEY-25 Portable Straight Key	**$99.99**

UM Unified Microsystems

XT-4-MK2 Memory Keyer



The perfect keyer for Field Day, vacations, EMCOMM, or just about any portable operation, the compact and lightweight XT-4-MK2 is fully iambic with self-completing characters. This battery-powered keyer features a CW speed range of 8-45 WPM, and each of the four memories can hold approximately 240 Morse characters. The non-volatile memory locations save your programmed information even when the power is removed. Programming your CQ, call sign, contest exchanges, name, QTH, and other information is easily accomplished by pressing the record and message buttons. A paddle reverse function lets you reverse the dit and dah keys without rewiring the cable. Designed to work with modern solid-state rigs with positive keying.

UMS-XT-4-MK2	Memory Keyer	**$89.95**
UMS-KC-4	Cable Set, XT-4-MK2/VK-64 Keyers, 1/4" Plug, Keyer to Rig	**$14.95**
UMS-KC-8	Cable Set, XT-4-MK2/VK-64 Keyers, 1/8" Plug, Keyer to Rig	**$14.95**

ACOM
Outstanding HF Power Products



New!

560 CW Paddle

Billed by ACOM as "the most modern CW paddle in the world," the 560 employs tension sensors to make this breakthrough instrument easy to use, providing effective and faster sending without stress on fingers, hand, or wrist. The device can be used with an external keyer or with any modern transceiver with a built-in CW keyer. Controlled by a microcomputer with an LCD screen, the device's tension sensors detect operator pressure on each lever. Favorite tension forces for each lever can be saved in an internal memory. This consistent and repeatable pressure registration results in more accurate code character generation. Other features and benefits include:

- Silent, non-moving levers
- The ability to adjust tension force between 10-60 grams
- Longer life since there are no moving parts inside to break down
- Stainless steel base
- Anodized aluminum body and levers
- Easy programming via menu-driven graphic display
- Weight of 2.2 lbs. and anti-slip bottom pad to ensure the paddle stays in place
- 3.5mm stereo plug connector

AOM-560	560 CW Paddle	**$799.99**

Palstar



CW50A Electronic Keyer

The Palstar CW50A Electronic Keyer has a speed control adjustable from 10 to 40 WPM, crystal-controlled for high accuracy. You can easily flip from mode A to mode B iambic keying and the built-in sidetone generator and speaker make monitoring your transmission easy. The CW50A also doubles as a training unit. Character spacing and dash weight are adjustable, as well.

The Palstar CW50A Electronic Keyer works with any straight key, semi-automatic bug key, single lever paddles and iambic dual lever "squeeze" paddles. Plus, it's compatible with both tube and solid state rigs. You can hook up your paddle through a convenient front panel jack, and there's a separate jack for your straight key—allowing for two keys to be attached at the same time. Read more details at DXEngineering.com.

- Sidetone pitch: 500-1000 Hz, front panel adjustable
- Keying output: positive, negative and high-speed reed relay
- Operating current: 10-50 mA, depending on sidetone level

PAS-CW50A	Palstar Electronic Keyer	**$369.99**

KENT KMK
KENT MORSE KEYS GERMANY



KMK-SP-1

Single and Double Paddle Keys

Made with versatility in mind, these keys can be adjusted to your precise operating style. Thanks to the paddles' unique spring design, you can change left and right spring tension separately. Adjustment is easy, with large knurled screws.

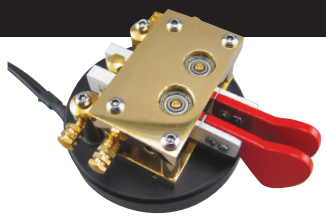
Like all Kent Keys, the mechanisms are machined from solid brass and use a quality ball race bearing. A heavy steel base keeps the paddles stable and the intuitive gap settings ensure a positive "feel."

KMK-SP-1	Single Paddle Key	**$159.99**
KMK-TP1-B	Twin Paddle Key	**$164.99**

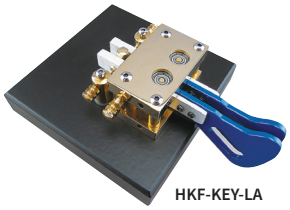
We stock many more items than we can show. See them all at DXEngineering.com!

⚠ **WARNING:** For Proposition 65 information, see p. 3

HA8KF
MAGNETIC PADDLE



HKF-KEY-SR



HKF-KEY-LA

HA8KF Magnetic Paddles

Equip your shack with a European-made HA8KF iambic dual-lever magnetic tension paddle and feel the comfort and ease a finely crafted instrument can make for your CW sessions. Offered exclusively in North America by DX Engineering, these handmade paddles come with an extra-heavy steel base and loosely threaded thrumbscrews that allow for easy tension adjustments on the fly. They feature a solid brass polished hub and either red or blue finger pieces. Each plug-and-play model comes pre-wired with a 1/4" phone plug (6.35mm male TRS). Large square, large round or small round styles are available.

Red Paddle

HKF-KEY-A	Large Square Base	**$279.99**
HKF-KEY-BR	Large Round Base	**$279.99**
HKF-KEY-SR	Small Round Base	**$279.99**

Blue Paddle

HKF-KEY-LA	Large Square Base	**$279.99**
HKF-KEY-LR	Large Round Base	**$279.99**
HKF-KEY-SL	Small Round Base	**$279.99**

Single Paddle

HKF-SINGLE-RR	Single, Red Paddle, Black Base	**$279.99**
HKF-SINGLE-SS	Single, Gray Paddle, Black Base	**$279.99**
HKF-SINGLE-RR-SS	Single, Red Paddle, Gray Base	**$279.99**

SOTA Paddle

HKF-KEY-SOTA	Dual, Red Paddle, Square Aluminum Base	**$279.99**

Tourist Paddle

HKF-TOURIST-RR	Dual, Red Paddle, Square Black Base	**$199.99**



PaddlePads

A Morse code operator's best friend, DX Engineering PaddlePads are the perfect way to keep your straight key, Bug, or paddle from traveling when you're working the world. These soft, pliable, and washable 1/16"-thick "grippy-sticky" pads come in two sizes (small, 5.4" x 3.4" and XL, 8.3" x 6.2") to keep everything from tiny, lightweight paddles to larger, heavier devices from sliding around in the heat of a CW contest. Amazingly, the pads feel sticky to the touch but use no adhesives that leave sticky or oily residue. Besides ham radio applications, they're also handy for keeping just about anything on a relatively flat surface from slip sliding away.

DXE-PADDLEPAD-SS	Small 5.4" x 3.4" PaddlePad	**$8.99**
DXE-PADDLEPAD-XL	XL 8.3" x 6.2" PaddlePad	**$11.99**

BENCHER, INC.



BNR-BY-2



BNR-ST-1

Keys and Accessories

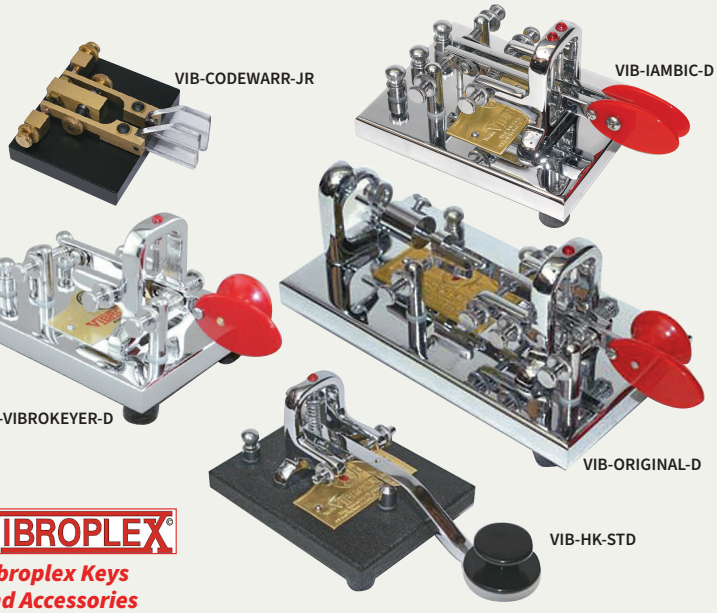
Equip your amateur radio station with high-performance Bencher keys and accessories. All Bencher products are fabricated and assembled in the USA by skilled professionals, using the finest materials for superior performance and durability.

Keys

BNR-RJ-1	Hand Key, Black Base	**$159.95**
BNR-RJ-2	Hand Key, Chrome Base	**$189.95**
BNR-BY-1	Iambic Paddle, Black Base/Chrome Parts	**$179.95**
BNR-BY-2	Iambic Paddle, Chrome Base/Chrome Parts	**$219.95**
BNR-ST-1	Single Lever Paddle, Black Base/Chrome Parts	**$149.95**

Accessories

BNR-EZ-1	4" Hook-up Cable, 1/8" and 1/4" Plugs	**$12.95**
VIB-DC-BY	Cover for BY-Series Paddles	**$39.95**



VIB-CODEWARR-JR

VIB-IAMBIC-D

VIB-VIBROKEYER-D

VIB-ORIGINAL-D

VIB-HK-STD

VIBROPLEX

Vibroplex Keys and Accessories

Vibroplex has been a leading manufacturer of quality CW keys and amateur radio accessories for over 100 years. From the Original Bug (in continuous production since 1905) to the always-reliable straight key, we have a wide selection of Vibroplex models to choose from. Over 300,000 Vibroplex keys are in circulation today because of their durability and unwavering performance.

Keys

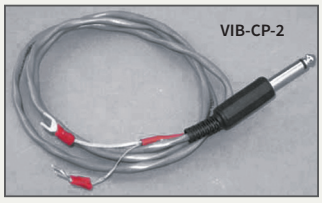
VIB-CODEWARR-JR	Black Code Warrior Jr.	**$124.95**
VIB-IAMBIC-S	Iambic Paddle Standard	**$189.95**
VIB-IAMBIC-D	Iambic Paddle Deluxe	**$229.95**
VIB-IAMBIC-G	Iambic Paddle Gold	**$322.95**
VIB-VIBROKEYER-S	Vibrokeyer Single Paddle Standard	**$189.95**
VIB-VIBROKEYER-D	Vibrokeyer Single Paddle Deluxe	**$229.95**
VIB-VIBROKEYER-G	Vibrokeyer Single Paddle Gold	**$322.95**
VIB-ORIGINAL-S	Original Bug Standard	**$249.95**
VIB-ORIGINAL-D	Original Bug Deluxe	**$289.95**
VIB-HK-STD	Straight Key Standard	**$179.95**
VIB-HK-DELUXE	Straight Key Deluxe Chrome	**$219.95**

Accessories

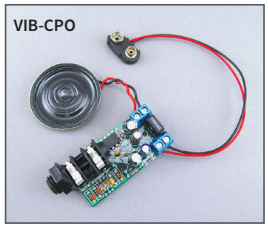
VIB-DC-VIBRO	Dust Cover for HK/Iambic/Vibrokeyer	**$39.95**
VIB-DC-ORIG	Dust Cover for Original Bug	**$42.95**
VIB-DC-BY	Dust Cover for Bencher BY Series	**$39.95**
VIB-405-CCS	Contact Cleaner Abrasive Strip	**$9.99**
VIB-CP-2	2-Conductor Cable 1/4" Plug (Bug or Hand Key)	**$9.95**
VIB-CP-3	3-Conductor Cable 1/4" Plug (Paddles)	**$9.95**
VIB-CP-3-3-5MM	3-Conductor Cable 3.5mm Plug (Paddles)	**$9.95**



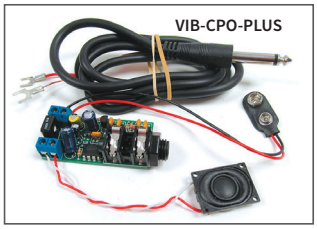
VIB-DC-VIBRO



VIB-CP-2



VIB-CPO



VIB-CPO-PLUS

Code Practice Oscillator Kits

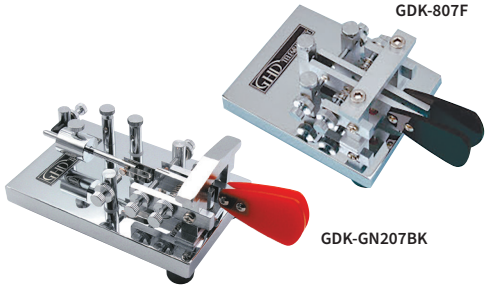
VIBROPLEX

Comprised of a small PCB and speaker, these kits let you practice code using your own key or bug for a real tactile CW experience. The units generate a pleasant 700 Hz tone and are powered by a single 9V battery. They're the perfect choice for clubs that hold regular CW classes.

VIB-CPO	Practice Oscillator Kit	**$24.95**
VIB-CPO-PLUS	Practice Oscillator Kit, with Key Hookup Cable	**$29.95**

DXEngineering.com is loaded with detailed photos, specs, videos, and more!

⚠ **WARNING:** For Proposition 65 information, see p. 3



GHD TELEGRAPH KEY

GHD Paddles, Straight, Bug, and Coootie Keys

DX Engineering is pleased to offer exceptional Morse code iambic paddles and straight keys from GHD Telegraph Key, featuring chrome finishing, aircraft-quality bearings, and gold- and/or silver-plated contacts. Manufactured in Sendai, Japan, GHD keys are finely crafted instruments, combining form, function, and long-lasting durability to create a satisfying CW operating experience, whether contesting or sharpening your coding skills. The chrome Cootie Sideswiper Key (GF502A) is similar to a straight key turned on its side. The key is at rest in the middle when not in use, and the lever arm is pushed left or right to make contact. The GHD semi-automatic Bug key features a light touch at the finger pieces and has an integrated yoke similar to the one used on the GN205S Single-Lever Paddle. The yoke and arm assembly is unique with two moving parts for the dit side and one for dah. When sending a dah the lever arm moves to the right and makes contact. When sending a dit the lever presses a second yoke bar with the contact spring. No other Bug key has a lever arrangement quite like this one.

GDK-GM702	Palm-Size, 5 oz. Travel Paddle;	**$169.95**
GDK-GT705A	GHD Straight Key	**$189.95**
GDK-GN807F	Entry-Level Iambic Paddle	**$199.95**
GDK-GN607F	Classic Iambic Paddle	**$269.95**
GDK-GN507F	Large-Base Iambic Paddle	**$279.95**
GDK-GT501A	"Finest Straight Key"	**$549.95**
GDK-GF502A	Cootie Sideswiper Key	**$209.95**
GDK-GN205S	Single-Lever Paddle	**$219.95**
GDK-GN207BK	Semi-Auto Bug Key	**$349.95**


HIM-HK-707


HIM-HK-709

Hi-Mound Keys and Paddles

HI-MOUND
HI-MOUND ELECTRO CO., LTD

Another winning addition to our lineup of CW key manufacturers, Hi-Mound offers straight keys that accommodate both American (low profile) and British (high profile) sending styles. Founded in Japan in 1947, Hi-Mound makes keys that are ideal for both new operators and longtime CW specialists. Also available are economy, standard and deluxe iambic paddles. Check out models that come with a solid marble base for a distinctive look in your shack. For more details, enter "Hi-Mound" at DXEngineering.com.

HIM-HK-705	Economy Straight Key, Low Profile, No Base	**$49.95**
HIM-HK-706	Clear Cover Straight Key, Low Profile, Plastic Base	**$99.95**
HIM-HK-707	Black Cover Straight Key, Low Profile, Plastic Base	**$99.95**
HIM-HK-709	Straight Key, High Profile, Plastic Base	**$99.95**
HIM-MK-701	Classic Iambic Paddle, No Base, Black Finger Piece	**$79.95**

CHELEGANCE
JNCRadio


NCE-CH0032520-M

New!

Dummy Loads


NCE-CH0032526-M

Chelegance offers a range of 50 Ω, passively air-cooled dummy loads from 10-200W. Choose the dummy load with frequency coverage, connector and power handling that best suits your operational needs.

NCE-CH0032520-M	RF, 200W, DC-520 MHz, PL-259 UHF Male	**$102.99**
NCE-CH0032520-O1	RF, 200W. DC-520 MHz, SO-239	**$128.00**
NCE-CH0032526-M	100W, DC-3 GHz, PL-259 UHF Male/N Male	**$103.33**
NCE-CH0032526-O1	100W, DC-3 GHz, PL-259 UHF Male	**$103.33**
NCE-CH0032527-M	50W, DC-3 GHZ (N Male); DC-520 MHz (PL-259 UHF Female)	**$71.67**
NCE-CH0032529-M	10W, DC-520 MHz, PL-259 UHF Male	**$48.33**
NCE-CH0032529-O1	10W, DC-3 GHz, N Male	**$48.33**

Coaxial Dynamics
A CDI INDUSTRIES, INC. COMPANY
SPECIALISTS IN RF TEST EQUIPMENT & COMPONENTS



Coaxial Dynamics Standard Plug-In Elements

Expand the versatility of your Coaxial Dynamics or Bird Directional Wattmeter by using additional Plug-In Elements. They assure a super accurate measurement for your station power and antenna performance. Coaxial Dynamics' 7/8" line size standardization means these elements are completely interchangeable, whether the element is brand new or if it were made decades ago. Available in several full-scale power ratings from 5-10,000 watts and eight frequency ranges starting with 2-30 MHz through 1.1-1.8 GHz, these elements satisfy most amateur radio and commercial RF testing requirements. Accuracy is maintained by calibrations using RF Power Standards (NIST traceable), supported by more than 30 years of results.

Enter "CXD" at DXEngineering.com for the complete lineup of Coaxial Dynamics plug-in elements, wattmeters, and more.

Standard Plug-In Elements ..... **from $159.00**

DX ENGINEERING



1,500W Dry Dummy Load

This device prevents interference to other stations by providing a 50 Ω load to a transceiver, transmitter or RF amplifier instead of using the antenna when tuning or testing for power output or signal quality. With RF to a manual tuner connected to the dummy load, variable component adjustments for each frequency band can be found before switching to an antenna and finishing minor adjustments. Use this unit instead of the antenna to make audio adjustments while talking on a transceiver and listening on a separate receiver. The dummy load operates from 0-54 MHz with SWR of 1.1:1 below 30 MHz and <1.25:1 SWR at 50 MHz. It handles 1,500W for 10 seconds of key-down CW, and 100W for 10 minutes. The lightweight aluminum chassis provides air cooling and measures 4" W x 3-5/16" H x 11-5/8" D, not including the SO-239 (UHF Female) RF connector.

DXE-DL1500U Dry Dummy Load, 1,500W **$269.99**

DIAMOND ANTENNA



Diamond Compact Dummy Loads

DMN-DL30A	Compact Dummy Load, 15 W Avg./100 W Peak, DC-500 MHz, PL-259	**$39.99**
DMN-DL30N	Compact Dummy Load, 15 W Avg./100 W Peak, DC-500 MHz, Type N Connector	**$59.99**

DX ENGINEERING

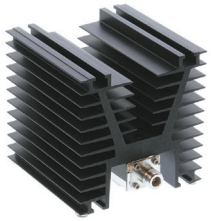


RF Attenuator Pack

Ideal for testing receiving equipment, this pack of three inline attenuators (3, 6, and 10 dB) can be used to limit the RF input to your preamp to prevent overload or to pad the output of a high gain preamp to an appropriate level. Adding an inline attenuator to a receiver input lets you gauge the accuracy of S-meter readings on transceivers with a constant RF input signal source. These 1/2W 50 Ω attenuators include BNC male/female connectors.

DXE-ATTN-50-VP3 Pack of 3 RF Attenuators **$45.99**

Coaxial Dynamics
A CDI INDUSTRIES, INC. COMPANY
SPECIALISTS IN RF TEST EQUIPMENT & COMPONENTS



Dry Dielectric RF Coaxial Dummy Loads

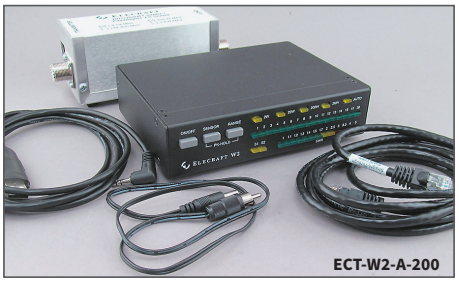
These finely engineered dummy loads allow you to perform accurate transmitter tests that won't interfere with other radio transmissions or cause damage to electronic equipment. Rated for continuous full-rated power and capable of handling frequencies up to 2.5 GHz, these air-cooled, 50 Ω RF load resistors are lightweight, dry coaxial loads that can be used in any position without the need for field adjustments. They come with Type-N Female connectors.

CXD-4151	Dummy Load, 150W, 0-2.5 GHz, 3.1 Lbs.	**$380.00**
CXD-4161	Dummy Load, 250W, 0-2.5 GHz, 6.6 Lbs., 1.2:1 Max VSWR	**$615.00**

FREE standard shipping on qualifying orders! See page 68 for details and exceptions.

⚠ WARNING: For Proposition 65 information, see p. 3

ELECRAFT



W2 Wattmeters

Perfect for both QRO and QRP operators, Elecraft W2 Wattmeters provide fast, high-brightness independent LED bar graphs of power and SWR to easily keep track of transmitter, amplifier and antenna performance. These auto-ranging power/SWR meters feature two sensor inputs, PC remote connectivity, over-range alarm and amp keying control. These pre-assembled units include tested power couplers for 2/20/200W (200W models) and 20/200/2000W (2,000W models). Also available in a VHF/UHF 200W version. Free software download at keyword "Elecraft." Additional sensor available separately.

ECT-W2-A-200	SWR/200W Wattmeter/ Assembled, 1.8-54 MHz	**$529.95**
ECT-W2-A-2000	SWR/2,000W Wattmeter/ Assembled, 1.8-54 MHz	**$529.95**
ECT-W2-A-V-U	SWR/200W VHF/UHF Wattmeter/ Assembled.....	**$529.95**

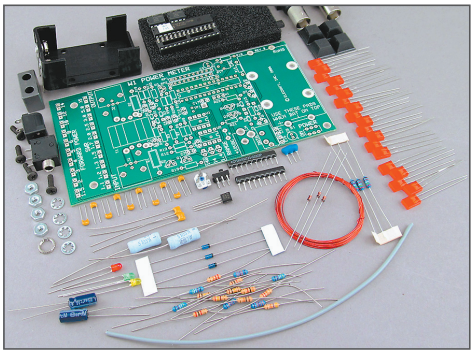
Palstar



Wattmeter

This hyper-accurate meter measures and displays SWR, forward power and reflected power simultaneously. It also monitors average power, and its handy "Peak Hold" buttons make it easy to record peak power. The meter covers 1.8-60 MHz with 300/2,000 watt min./max. power ranges. The PM2000A meter has a 0.090" iridite-treated aluminum case with a powdercoated front panel and top cover. Rear panel SO-239 (UHF female) connectors are provided for coaxial cable RF input and output.

PAS-PM2000A	Wattmeter, 2,000 Watts.....	**$349.99**



ELECRAFT

140W Computing Wattmeter/SWR Bridge, Full Kit

Perfect for kit-building projects and QRP enthusiasts, this versatile microprocessor-based RF power and SWR meter makes simple work of monitoring your equipment. It automatically selects the proper power range of up to 1.4, 14 or 140 watts and indicates the peak forward power and SWR on built-in bar-graph LEDs. High resolution power and SWR readings are also available through a connector as RS232 serial data for display on a computer.

ECT-W1	Computing Wattmeter/ SWR Bridge, Full Kit.....	**$189.95**



Metropwr

Vector Power/ SWR Meters

Featuring a modern design with many options for expanding functionality, these highly accurate digital meters from Metropwr combine a touchscreen auto-ranging wattmeter and RF coupler for measurements from 0.5W to 3kW, or 5kW PEP with optional FX5 coupler. A fast 32-bit processor plus a coprocessor handle measurements in real time, including power (AVG, PEP, dBm), SWR, return loss, R, Z, X, and much more. Their fast external bus allows for seamless connection of Metropwr optional accessories. Add one or two FX7 1x4 RF Switches to control four radios and/ or four antennas. Meters feature 1.8-55 MHz coverage; large color touchscreen display (5" for FX773, 7" for FX775); high SWR alarm, RX/TX/standby; firmware updates and PC control through USB; and internal analog/digital UTC clock. Meters come with a 3kW FX3 coupler and two 5' male SMA patch cables for FWD/ REV coupler connections. Dual inputs allow connection of one additional 3kW or 5kW coupler. Meter requires 13.8VDC. **Enter "Metropwr" at DXEngineering.com for details and accessories.**

MWR-FX773-FX3	Power/SWR Meter, 5" LCD w/FX3 Coupler	**$1,529.99**
MWR-FX775-FX3	Power/SWR Meter, 7" LCD w/FX3 Coupler	**$1,968.99**



MOONRAKER

MKR-21-922

VSWR/Power Meter



MKR-99-585

Moonraker offers a range of compact and accurate meters for measuring forward/ reflected power and VSWR. Some models include a 13.8V DC lamp and power handling up to 400W.

MKR-99-580	AV-20 VSWR/Power Meter, 1.8-200MHz, 15W/150W.....	**$165.99**
MKR-99-581	AV-40 VSWR/Power Meter, 144-470MHz, 15W/150W.....	**$165.99**
MKR-99-582	AV-200 VSWR/Power Meter, 1.8-160MHz, 5/20/200/400W.....	**$199.99**
MKR-99-583	AV-400 VSWR/Power Meter, 140-525MHz, 5/20/200/400W.....	**$199.99**
MKR-99-584	SWR-600 VSWR/Power Meter, Sensor 1: 1.8-160MHz, Sensor 2: 140-525MHz, 5/20/200/400W.....	**$91.49**
MKR-99-585	AV-1000 VSWR/Power Meter, 1.8-160MHz, 430-450MHz, 800-930MHz, 1240-1300MHz, 5/20/200/400W.....	**$279.99**
MKR-21-920	SWR/Watt Meter, 120-500 MHz	**$59.99**

Dual-Function VHF/UHF SWR/Power Meter

The compact SWR-300 meter measures the SWR of a VHF/UHF antenna system from 120-500MHz and can also be employed to measure the forward and reflected power of a VHF or UHF radio from 0.5-100W. It comes with two UHF female SO-239 connectors.

MKR-21-922	VHF/UHF SWR/ Power Meter	**$43.99**

MONITOR SENSORS

Monitor Sensors Logo



Power+SWR Meter

Monitor Sensors' highly regarded Power and SWR Meter delivers accurate RF power readings from 10mW up to 2,000W and SWR measurements at power levels as low as 50mW. This compact and reliable Australian-made meter has an easy-to-use design housed in a sturdy chassis that's a great choice for both high-powered stations or QRP operations. The meter works with CW, SSB, AM, FM, RTTY, and Digital modes. Features include 130 kHz-30 MHz coverage; 48 factory-set calibration points for greater accuracy; the ability to change LCD display backlighting color in relation to current SWR readings; protection against inadvertent reverse voltage connections; and a straightforward back panel with two UHF female SO-239 connectors for RF-in and RF-out, a 2.1mm 12 VDC power jack, and a two-pin connector with solid-state opto-isolated contacts for high SWR alarm or amplifier keying line interrupt. A DC power lead and high SWR alarm plug are included. **Enter "Monitor Sensors" at DXEngineering.com for more details.**

MTN-SWRMETER	Power+SWR Meter, 130 kHz-30 MHz	**$312.99**



DWA-CN-901HP3



DWA-CN-901HP

DAIWA

3,000 Watt Professional Series Bench Meter

The CN-901HP3 covers 1.8-200 MHz with 30/300/3,000 watt min./mid./max. power ranges.

DWA-CN-901HP3	3,000 Watt Professional Series Bench Meter	**$299.95**

2,000 Watt Professional Series Bench Meter

The CN-901HP covers 1.8-200 MHz with 20/200/2,000 watt min./mid./max. power ranges.

DWA-CN-901HP	2,000 Watt Professional Series Bench Meter	**$239.95**

200 Watt Professional Series Bench Meter

The CN-901V covers 140-525 MHz with 20/200 watt min./max. power ranges.

DWA-CN-901V	200 Watt Professional Series Bench Meter.....	**$225.95**

DAIWA



1,500 Watt Economy Series HF/VHF Bench Meter

The CN-501H covers 1.8-150 MHz with 15/150/1,500 watt min./mid./max. power ranges.

DWA-CN-501H	1,500 Watt Economy Series HF/VHF Bench Meter.....	**$165.95**

DAIWA



200 Watt Economy Series HF/VHF Bench Meter

The CN-501V covers 140-525 MHz with 20/200 watt min./ max. power ranges.

DWA-CN-501V	200 Watt Economy Series HF/VHF Bench Meter.....	**$167.95**

Need help with your project? Call the tech line at 330-572-3200!

⚠ WARNING: For Proposition 65 information, see p. 3

HF Transmit Band Pass Filters and Multiplexers

VA6AM TRIPLEXERS-DIPLEXERS-FILTERS



Give your station the same high-quality band pass filters, diplexers, and triplexers used by top multi-multi contest stations and successful Field Day operations. Highly respected HF transmit band pass filters by Pavel, VA6AM, provide a dramatically lowered noise floor for enhanced single-band, weak-signal reception. The compact units (3" H x 6" W x 3" D) deliver the isolation needed to eliminate image and harmonic RF interference issues for dedicated monoband operations in multi-radio environments. The 150W PEP filters (Third Order Cauer for 80/40/20/15; Third Order Chebyshev for 160/10M) allow multiple transceivers to be operated on different bands simultaneously on the same antenna (with a required multiplexer below). Built into durable aluminum enclosures and supplied with SO-239 connectors, these filters boast 60 dB of out-of-band suppression, typical insertion loss of less than 0.25 dB, and return loss of less than 26 dB, equivalent to SWR under 1.1:1.

Enter "VA6AM" at DXEngineering.com for more details.

VAM-LP-BPF-160	160M Band Pass Filter, 150W PEP	**$235.99**
VAM-LP-BPF-80	80M Band Pass Filter, 150W PEP	**$235.99**
VAM-LP-BPF-40	40M Band Pass Filter, 150W PEP	**$235.99**
VAM-LP-BPF-20	20M Band Pass Filter, 150W PEP	**$235.99**
VAM-LP-BPF-15	15M Band Pass Filter, 150W PEP	**$235.99**
VAM-LP-BPF-10	10M Band Pass Filter, 150W PEP	**$235.99**

Diplexers and Triplexers

When used along with a monoband HF band pass filter, these receive and transmit capable RF-filtering splitters/combiners allow multi-transceiver stations to share a single multiband antenna. VA6AM multiplexers deliver excellent levels of isolation between band ports and cause negligible insertion loss, while providing 50 Ω connections for multiple transceivers that serve to balance the impedances for a single 50 Ω feedline to a multiband antenna.

VAM-LP-DIP-4080	80/40M Diplexer, 200W ICAS	**$359.99**
VAM-LP-DIP-SPLIT	20/15/10M; 160/80/40M Split Diplexer, 200W ICAS	**$359.99**
VAM-LP-TR-101520	20/15/10 Triplexer, 200W ICAS	**$389.99**
VAM-LP-TR-204080	80/40/20M Triplexer, 200W ICAS	**$389.99**
VAM-LP-TR-LBANDS	160/80/40M Triplexer, 200W ICAS	**$389.99**

Band Pass Filters and Diplexers

Antennas-Amplifiers



ATF-5555

Antennas-Amplifiers' high-power band pass filters for HF operation are made with high-quality components and undergo rigorous testing/calibration to maximize performance in multi-station environments and during portable ops to protect receivers from excessively strong out-of-band signals. Ideal for both reception and transmission, these 12VDC fan-cooled filters boast low insertion loss and power handling capabilities from 2,000W-4,000W PEP. Engineered with advanced filter design, these 50 Ω passive devices are housed in a robust powdercoated aluminum enclosure. The compact filters (8.6" H x 17.9" W x 5.3" D) are equipped with silver-plated SO-239 connectors, ensuring minimal SWR and high attenuation of out-of-band signals across each filter's band. Also choose from smartly engineered and proven 6M, VHF, UHF, and dual-band band pass filters.

ATF-5500	160M, 4,000W PEP, <0.1 dB Insertion Loss	**$339.99**
ATF-5510	80M, 4,000W PEP, <0.12 dB Insertion Loss	**$339.99**
ATF-5520	40M, 4,000W PEP, <0.12 dB Insertion Loss	**$339.99**
ATF-5530	20M, 4,000W PEP, <0.12 dB Insertion Loss	**$339.99**
ATF-5540	15M, 4,000W PEP, <0.12 dB Insertion Loss	**$339.99**
ATF-5550	10M, 4,000W PEP, <0.15 dB Insertion Loss	**$339.99**
ATF-5555	60M, 2,000W PEP	**$459.99**
ATF-5560	30M, 3,000W PEP, <0.18 dB Insertion Loss	**$459.99**
ATF-5570	17M, 2,000W PEP, <0.32 dB Insertion Loss	**$459.99**
ATF-5580	12M, 2,000W PEP, <0.4 dB Insertion Loss	**$459.99**

6M Band Pass Filters

Choose from two high-quality Antennas-Amplifiers' band pass filters for operating on the Magic Band.

ATF-5900	Economical Receive-Only 6M BPF	**$108.99**
ATF-5940	Transmit-Receive 200W 6M BPF	**$233.99**

2M, 70cm, and Dual-Band Band Pass Filters

ATF-6250	Economical Receive-Only 2M BPF	**$108.99**
ATF-6260	Ultimate Receiving 2M BPF F-F	**$145.99**
ATF-6265	Ultimate Receiving 2M BPF M-F	**$150.99**
ATF-6290	Transmit-Receive 100W 2M BPF	**$235.99**
ATF-6530	Transmit-Receive 200W 70cm BPF	**$247.99**
ATF-6550	Band Pass Filter, 2,500W, 70cm	**$468.99**
ATF-6560	Low Pass Filter, 1,500W, 70cm	**$407.99**

Diplexers

ATF-6340	2M/70cm 200W Diplexer	**$274.99**
ATF-6343	2M/70cm Diplexer, Low Pass	**$393.99**
ATF-6344	2M/70cm Double 200W Diplexer	**$399.99**
ATF-6347	2M/70cm 750W/750W Diplexer	**$316.99**

In-Stock Parts Typically Ship The Same Day.

XL Series High-Power Band Pass Filters



4O3A

Boasting up to 4,500W ICAS power handling and typical out-of-band rejection of >55 dB (sometimes as high as 75 dB), 4O3A High-Power Band Pass Filters (5.9" H x 24.4" W x 4.3" D) make an excellent choice for installing on the output side of a linear amplifier to filter out harmonics and broadband noise from the power amp. Inline filtering after final amplification allows maximum reduction of transmitted broadband noise and harmonic energy. Other benefits include mitigating intra- and inter-station interference during contests, protecting receiver circuitry, and enabling full duplex operation on capable transceivers. The filters employ robust components for maximum mechanical stability: silver-plated high-Q coils, high-current military-grade capacitors, and heavy-duty aluminum enclosures with mounting flanges. Additionally, installing 4O3A filters in the antenna line after the linear amplifier and antenna switch means the right filter will always be in circuit on the band/antenna combination in use, and the operator will never have to worry about switching filters between the transceiver and linear amplifier. Filters come with 12VDC 40mA cooling fans. **Enter "4O3A Band" at DXEngineering.com for more details.**

Part Number	Band	Connector	Power Handling	Price
O3A-4O-BPFXL160N	160 Meters	Type-N Female	4,500W	**$525.99**
O3A-4O-BPFXL160P	160 Meters	UHF Female (SO-239)	4,500W	**$515.99**
O3A-4O-BPFXL080N	80 Meters	Type-N Female	4,500W	**$525.99**
O3A-4O-BPFXL080P	80 Meters	UHF Female (SO-239)	4,500W	**$515.99**
O3A-4O-BPFXL040N	40 Meters	Type-N Female	4,500W	**$525.99**
O3A-4O-BPFXL040P	40 Meters	UHF Female (SO-239)	4,500W	**$515.99**
O3A-4O-BPFXL030N	30 Meters	Type-N Female	4,500W	**$525.99**
O3A-4O-BPFXL030P	30 Meters	UHF Female (SO-239)	4,500W	**$515.99**
O3A-4O-BPFXL020N	20 Meters	Type-N Female	4,500W	**$525.99**
O3A-4O-BPFXL020P	20 Meters	UHF Female (SO-239)	4,500W	**$515.99**
O3A-4O-BPFXL017N	17 Meters	Type-N Female	4,500W	**$557.99**
O3A-4O-BPFXL017P	17 Meters	UHF Female (SO-239)	4,500W	**$515.99**
O3A-4O-BPFXL015N	15 Meters	Type-N Female	4,500W	**$525.99**
O3A-4O-BPFXL015P	15 Meters	UHF Female (SO-239)	4,500W	**$515.99**
O3A-4O-BPFXL012N	12 Meters	Type-N Female	4,500W	**$525.99**
O3A-4O-BPFXL012P	12 Meters	UHF Female (SO-239)	4,500W	**$515.99**
O3A-4O-BPFXL010N	10 Meters	Type-N Female	4,500W	**$525.99**
O3A-4O-BPFXL010P	10 Meters	UHF Female (SO-239)	4,500W	**$557.99**
O3A-4O-BPFXL006N	6 Meters	Type-N Female	4,500W	**$525.99**
O3A-4O-BPFXL006P	6 Meters	UHF Female (SO-239)	4,500W	**$557.99**

Triplexer/Combiner

A game-changer for multi-operator contest stations, DXpeditions, and Field Day activities, this high-power combiner connects to a triband 20/15/10M antenna and allows it to be used by three stations running 4,500W simultaneously with a single coaxial feedline, eliminating the need for separate monoband Yagis.

O3A-4O-HFC4500-N	20/15/10M Triplexer/Combiner, Type-N Female	**$642.99**
O3A-4O-HFC4500PL	20/15/10M Triplexer/Combiner, UHF Female (SO-239)	**$642.99**

Triplexer Extender

The QPXC8 gives you the flexibility to create a combiner for a four-band antenna. Its flexibility lets you use it for a 40/20/15/10M Yagi, WARC, low-band quadraplexer, or other configuration. It can be used with NO3A filters or filters from other producers.

O3A-4O-QPXC8-N	Triplexer Extender, Type-N Female	**$909.99**
O3A-4O-QPXC8-PL	Triplexer Extender, UHF Female (SO-239)	**$909.99**

DX ENGINEERING

KD9SV Keying Relay



This high-speed, solid-state switching interface is designed to protect transceiver keying circuits from potential damage by amplifier relays. Transceiver keying circuits only handle a few milliamperes at low voltage, but some recent amplifier relays require over 150 mA at 12VDC. Additionally, high voltage and high current amplifier keying relays were common in amplifiers made between 1950 and 1975. The DXE-SV-KR can safely key all DC amplifier relays, including older relays and keying inputs that operate at high voltage, typically -100 or +110VDC (not AC). High voltage keying is handled by the device. Inspired by the original KD9SV Keying Relay, the device quickly and silently does the work of a normally open, (N.O.) ground-independent Double Pole Single Throw (DPST) relay. It provides two separate, completely isolated PTT outputs, each capable of handling up to + or - 450VDC at up to 500mA. The device's optically isolated PTT input only requires 2mA at 13.8VDC to key, so it is safe for any transceiver's amplifier keying circuit or any other "ground-on-transmit" PTT keying accessory. Built in an enclosure with RCA phono jacks, it is also QSK capable for keying any amplifier that supports high speed CW keying, typically a solid-state amplifier (or specially equipped tube amplifier) with a high-speed circuit for "Key In" PTT. It may also be used to isolate a straight key or a solid-state electronic keyer connection to any CW key input. It operates on 13.8VDC to an input 2.1mm DC connector. A mating 2.1mm plug and wire are included. Except for AC relay switching, the DXE-SV-KR replaces the Ameritron ARB-704.

DXE-SV-KR	KD9SV Keying Relay	**$109.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

RF Vacuum Tubes



For special RF power replacement vacuum tubes to fix a current amplifier, revive a legacy model, or build a new one, choose Penta Laboratories. Penta tubes are burned in for a minimum of 48 hours, dissipating full power with filament, plate, and screen voltages that are normally used in amp applications. This ensures electrical parameters are stable and will perform as expected during their lifetime. Tubes are evaluated on WT-100A original RCA production testers for plate current, screen current, and transconductance.

FU-728F Tetrode RF Vacuum Tube for OM Power Amps

FU-728F ceramic tetrode tubes are available for replacing tubes used in OM Power linear amplifiers, including OM2000+, OM2000A, OM2500, and OM4000 models.

PLB-FU-728F FU-728F Single..... **$1,499.99**

3-500ZG Hi-Mu Power Triode RF Vacuum Tube

The 3-500ZG has a maximum plate dissipation rating of 500W and is intended for use as a zero-bias Class AB2 amplifier. When operated in a cathode-driven circuit, a power gain of as much as 20 times is achievable. It features a ceramic base for better temperature control. Radiation and forced air provide cooling through the base, along the envelope, and over the plate seal and plate connector.

PLB-3-500ZG 3-500ZG Single..... **$329.99**
PLB-3-500ZG-2 2-500ZG Matched, Set of 2..... **$658.99**
PLB-3-500ZG-3 3-500ZG Matched, Set of 3..... **$988.99**
PLB-3-500-ZG-4 4-500ZG Matched, Set of 4..... **$1,318.99**

572B Power Triode RF Vacuum Tube

The 572B is for use as an RF oscillator, RF power amplifier, and audio frequency modulator. It's a direct replacement for the 811A but comes with a graphite anode for increased performance and reliability.

PLB-572B 572B Single..... **$125.99**
PLB-572B-2 572B Matched, Set of 2..... **$250.99**
PLB-572B-3 572B Matched, Set of 3..... **$376.99**
PLB-572B-4 572B Matched, Set of 4..... **$502.99**

811A Hi-Mu Power Triode RF Vacuum Tube

The 811A is for use as an audio frequency amplifier or modulator, RF amplifier, or oscillator. It is capable of outputting up to 160 watts at frequencies up to 30 MHz.

PLB-811A 811A Single..... **$56.99**
PLB-811A-2 811A Matched, Set of 2..... **$113.99**
PLB-811A-3 811A Matched, Set of 3..... **$170.99**
PLB-811A-4 811A Matched, Set of 4..... **$227.99**

3CX800A7 Power Triode Ceramic RF Vacuum Tube

This tube is for use as a cathode-driven Class AB2 or Class B amplifier in RF applications, including VHF. Useful to 450 MHz, the 3CX800A7 delivers 750 watts PEP and 750 watts key-down CW output power to 350 MHz. Its anode is forced-air cooled for 800 watts of dissipation.

PLB-3CX800A7 3CX800A7 Single..... **$1,049.99**
PLB-3CX800A7-2 3CX800A7 Matched, Set of 2..... **$2,098.99**

3CX1500A7 Ceramic and Metal Hi-Mu RF Vacuum Tube

This tube is for use as a cathode-driven Class AB2 or Class B amplifier in audio or RF applications including VHF, or as a cathode-driven, plate-modulated Class C RF amplifier. It has a maximum plate dissipation rating of 1,500 watts and maximum CW output power to 250 MHz.

PLB-3CX1500A7 3CX1500A7 Single..... **$1,699.99**

4CX1000A Ceramic Low-Voltage, High-Current Radial-Beam Power Tetrode RF Vacuum Tube

This tube is for Class AB1 RF linear amplifier or audio amplifier applications. It has a maximum plate dissipation rating of 1,000 watts and maximum CW output power to 110 MHz.

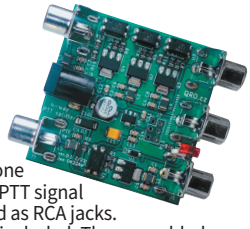
PLB-4CX1000A 4CX1000A Single..... **$1,299.99**

4CX800A-T Ceramic Thompson Brand Power Tetrode RF Vacuum Tube

This GU74B equivalent features a maximum plate dissipation rating of 800 watts.

PLB-4CX800A-T 4CX1000A Single..... **$1,259.99**

4-Way PTT Splitter



The simply constructed and smartly designed PTT-4 analog four-way splitter allows the PTT signal to be forwarded to up to four outputs almost without delay. This allows, for example, several PAs to be addressed simultaneously with one press of the PTT button. A status LED signals the user that a PTT signal is present. The PTT input as well as the outputs are designed as RCA jacks. Requires 9-15VDC via barrel plug; cable with an open end is included. The assembled board is available individually or in an aluminum enclosure.

QRO-PTT4 4-Way Splitter, No Enclosure..... **$76.99**
QRO-PTT4BOX 4-Way Splitter, With Enclosure..... **$88.99**

DX ENGINEERING



DXE-3RIGKEYLINE



DXE-KEYLINE-DUAL



DXE-KEYLINE-3

Transceiver Key Line Splitters and Combiners

Choose from three different Key Line Splitters and Combiners for the "ground-on-transmit" amplifier keying line of one or multiple transceivers to key one or more accessories or amplifiers safely, without interaction. They are passive DC-only devices that require no power and provide multiple PTT keying line outputs, inputs or both. All four connectors are female RCA phono. Center conductor grounding to the shield of any one of the PTT IN connector(s) provides the same diode protected center conductor grounding to the shield of the PTT OUT connector(s). For example:

- KEYLINE-3 is a splitter for one transceiver to key one amp and two accessories.
- 3RIGKEYLINE is a combiner for up to three transceivers to key one amplifier.
- KEYLINE-DUAL is a combiner-splitter for two transceivers to key two amplifiers, or one amplifier and one accessory.

These devices are really handy when using amateur radio devices that need to "share" a T/R keying line and don't have a keying line pass-through. Each keying input or output is guarded with a separate 60V 2A Schottky diode, providing ground-on-transmit isolation between each accessory keying line. They keep the load or voltage of any one piece of equipment from affecting the others. Their voltage and current handling depends upon the rating of the transceiver(s) transistor or relay amplifier keying circuit. Check your transceiver manual for the total voltage and current that it will safely handle. These devices handle keying lines only. Other connections and appropriate amplifier and accessory operation must be considered.

DXE-KEYLINE-3 PTT Key Line Splitter, 1 Input, 3 Outputs..... **$79.99**
DXE-3RIGKEYLINE PTT Key Line Combiner, 3 Inputs, 1 Output..... **$77.99**
DXE-KEYLINE-DUAL PTT Key Line Combiner-Splitter, 2 Inputs, 2 Outputs..... **$79.99**

AM Broadcast Band Brick-Wall High Pass Filter

DLW ASSOCIATES



Live near a commercial AM station? Here's an effective way to combat its inference. Below 1.7 MHz, the filter hits unwanted signals with over 40 dB of attenuation. And it's virtually unnoticeable on the HF bands—there's less than 0.85 dB of loss with a SWR under 1.2:1. The filter is optimized for 50 Ω and installs between your radio and antenna (or amplifier/tuner). It handles 200 watts.

DLW-FL1718 AM Broadcast Band Brick-Wall High Pass Filter..... **$195.00**

200W PEP Transmit Band Pass Filters

RFM-BPF20



A great choice for contesting and DXpeditions, one for each band transceiver for multi-two or multi-multi operations, these precisely crafted band pass filters from French manufacturer RF Meca are expertly designed to block all signals outside the target frequency band, minimizing interference to and from adjacent frequency bands, improving transmitted and received signal quality. The compact (2.9" H x 7.6" W x 4.2" D) and lightweight (0.99 lbs.) filters feature an HF-tight sheet metal housing to maintain optimal functionality and signal integrity, insertion loss of -0.3 dB, and return loss of -28 dB. They are power rated at 200W CW (continuous). With SO-239 connector.

RFM-BPF10 10M Band Pass Filter, 200W PEP..... **$239.99**
RFM-BPF12 12M Band Pass Filter, 200W PEP..... **$239.99**
RFM-BPF15 15M Band Pass Filter, 200W PEP..... **$239.99**
RFM-BPF17 17M Band Pass Filter, 200W PEP..... **$239.99**
RFM-BPF20 20M Band Pass Filter, 200W PEP..... **$239.99**
RFM-BPF30 30M Band Pass Filter, 200W PEP..... **$239.99**
RFM-BPF40 40M Band Pass Filter, 200W PEP..... **$239.99**
RFM-BPF60 60M Band Pass Filter, 200W PEP..... **$239.95**
RFM-BPF80 80M Band Pass Filter, 200W PEP..... **$239.99**
RFM-BPF160 160M Band Pass Filter, 200W PEP..... **$239.99**

2kW Low-Pass Filter for 220 MHz

Designed to attenuate high frequencies and allow low-frequency signals to pass freely, this sturdy filter can be used from 220.0-223.4 MHz. It is suitable for use up to 2,000W CW, with 0.15 dB insertion loss.

RFM-LPF1-25 2kW Low-Pass Filter for 220 MHz, Type-N..... **$439.99**

4kW Band Pass Filters

RFM-BPF10-4 10M Band Pass Filter, 4kW..... **$1,358.99**
RFM-BPF12-4 12M Band Pass Filter, 4kW..... **$1,358.99**
RFM-BPF15-4 15M Band Pass Filter, 4kW..... **$1,358.99**
RFM-BPF17-4 17M Band Pass Filter, 4kW..... **$1,358.99**
RFM-BPF20-4 20M Band Pass Filter, 4kW..... **$1,358.99**
RFM-BPF30-4 30M Band Pass Filter, 4kW..... **$1,358.99**
RFM-BPF40-4 40M Band Pass Filter, 4kW..... **$1,358.99**
RFM-BPF80-4 80M Band Pass Filter, 4kW..... **$1,358.99**
RFM-BPF160-4 160M Band Pass Filter, 4kW..... **$1,358.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3



1,500 Watt Automatic HF Linear Amplifier

This advanced amateur radio HF amplifier combines fully automatic tuning and sophisticated digital control capabilities. The 2000A delivers up to 1,500 watts of clean, noise-free power. Full automatic tuning gives contesters an edge by permitting lightning-quick bandswitching with low SWR. Advanced digital features provide full control via PC when plugged into the 2000A's RS232 port. An optional module lets you turn the amplifier on and off remotely. The ASW-120 Remote Antenna Switch and Selector Console provides complete antenna selection automation when interfaced with the 2000A, or it may be used as a manually- or PC-controlled antenna switching system. All ACOM 2000A amplifiers come with pre-wired 240VAC plug, installed and tested at DX Engineering.

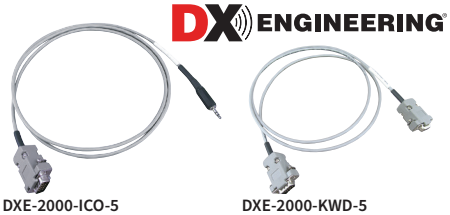
AOM-2000A-240	ACOM 2000A with Pre-Wired 240VAC Plug	**$8,935.98**
AOM-RPON	Remote Power On Module for 2000A	**$199.99**
AOM-ASW-120	10 Port 5kW Remote Antenna Switch and 2000S Selector Console	**$959.99**

Remote Control Unit

This is the same remote control unit that comes with ACOM's 2000 amplifier. The unit lets you install the amplifier away from your desk and free up space in your shack. You can control all amplifier functions and monitor critical parameters on the large LCD display.

AOM-RCU-TFT	Remote Control Unit	**$1,075.99**

Transceiver to Amplifier Interface and Keying Cables



DXE-2000-ICO-5 DXE-2000-KWD-5

The proper amplifier-to-radio link is essential to using all of the amplifier's functions (like band switching and keying). Make sure you're getting the most out of your setup with the application-specific interface cables. The amplifier and radio manufacturer are listed in the table below, a comprehensive rundown of model compatibility is at DXEngineering.com.

Part Number	Radio	Amplifier	Cable Description	Price
DXE-2000-ICO-5	Icom	ACOM 2000A	Icom C-IV Remote Port	**$55.99**
DXE-2000-KWD-5	Kenwood	ACOM 2000A	RS-232 Com Port	**$55.99**
DXE-2000-YSU-5	Yaesu	ACOM 2000A	RS-232 CAT	**$55.99**
DXE-2000-K3-5	Elecraft K3	ACOM 200A	DB-9 Connector	**$55.99**
DXE-ACOMSS-ICO	Icom	ACOM 600/ 700/1200S	Icom C-IV Remote Port	**$55.99**
DXE-ACOMSS-101	Yaesu	ACOM 600S/ 700S/1200S	To FTdx-101D/MP	**$64.99**
DXE-ACOMSS-KWD	Kenwood	ACOM 600/ 700/1200S	RS-232 Com Port	**$55.99**
DXE-ACOMSS-YSU	Yaesu	ACOM 600/ 700/1200S	RS-232 CAT	**$55.99**
DXE-ACOMSS-YSU8	Yaesu	2020S/1200S/ 700S/500S	ACOM SS to Yaesu 8-Pin Mini, BCD/PTT Keying	**$55.99**
DXE-ACOMSS-YSU10	Yaesu	ACOM SS	ACOM SS to Yaesu 10-Pin Mini, BCD/PTT Keying	**$55.99**
DXE-ACOMSS-K3	Elecraft	ACOM 600/ 700/1200S	DB-9 Connector	**$55.99**
DXE-KWD-RCA	Kenwood	Universal	Keying, RCA to 7-Pin DIN	**$51.99**
DXE-KWD-SS-RCA	Kenwood	SS Amps	SS to 7-Pin DIN	**$36.99**
DXE-KWD-8P-RCA	Kenwood	Universal	8-Pin Mini DIN to RCA	**$41.99**
DXE-YSU-8P-RCA	Yaesu	Universal	8-Pin Mini DIN to RCA	**$59.99**
DXE-YSU-10P-RCA	Yaesu	Universal	Yaesu 10-Pin Mini to RCA	**$37.99**
DXE-YSU-10PMD-UN	Yaseu	Universal	DIY 10-Pin Mini DIN to Undetermined Wires	**$25.99**



700 Watt HF+6M Linear Amplifier

The 700S Solid State 1.8-54 MHz Linear Amplifier has been a great addition to ACOM's state-of-the-art lineup of 160 through 6 meter amplifiers. This rugged, compact and lightweight device makes a good choice for field operations, DXpeditions and at your home station. Operators will enjoy 700W of output power (PEP SSB, CW and digital modes); intuitive, easy-to-follow screen menus which simplify operation—no special skills are required with RF sense automatic band changing; full output operation that only requires a maximum of 40W drive; and protection circuits that continually safeguard the amplifier while operating in any mode. The 700S is compatible with all available transceiver models on the market. The broadband input matches to the transceiver with low SWR over the entire range of 1.8-54 MHz. All ACOM 700S amplifiers come pre-wired with either 120VAC or 240VAC plug, installed and tested at DX Engineering.

AOM-700S-120	ACOM 700S with Pre-Wired 120VAC Plug	**$4,367.99**
AOM-700S-240	ACOM 700S with Pre-Wired 240VAC Plug	**$4,367.99**



1,000 Watt HF+6M Linear Amplifier

Answering the call from hams who wanted a state-of-the-art, solid state RF amplifier with full HF and 6 meter coverage, ACOM produced its 1200S. It's very compact and rugged, making it a smart choice for DXpeditions. The final PA stage uses a rugged LDMOS transistor, and a large color display features intuitive menus and on-board monitoring of 10 parameters. It's compatible with virtually all modern radios, requiring less than 50 watts of drive power. All ACOM 1200S amplifiers come with either pre-wired 120VAC or 240VAC plug, installed and tested at DX Engineering.

AOM-1200S-120	ACOM 1200S with Pre-Wired 120VAC Plug	**$4,750.99**
AOM-1200S-240	ACOM 1200S with Pre-Wired 240VAC Plug	**$4,750.99**



1,500 Watt Automatic HF+6M Linear Amplifier

Combining ease of use and serious pileup-busting capabilities, this solid-state 160 through 6 meter amplifier delivers maximum legal power in all modes, plus operator-friendly functionality thanks to its remote control unit with high-resolution LCD screen. Compatible with all transceiver models, the 2020S is designed with isolated input and output ports, reducing intermodulation and improving resistance to self-excited oscillation. A broadband input circuit provides a perfect transceiver load with SWR below 1.2 without re-tuning throughout the entire frequency range, and built-in intelligence provides continuous monitoring of system health and protection circuits. Operators benefit from intermodulation distortion better than 30 dB below rated PEP, and harmonic and parasitic emissions output suppression better than 60 dB (1.8-29.7 MHz) and 70 dB (50-54 MHz) below rated output. The ACOM 2020S supports direct remote control via the Internet with an integrated web interface and built-in Ethernet RJ45 LAN port or Wi-Fi adapter. All ACOM 2020S amplifiers come with pre-wired 240VAC plug, installed and tested at DX Engineering.

AOM-2020S-240	ACOM 2020S with Pre-Wired 240VAC Plug	**$7,934.99**
AOM-2020S-20AT	ACOM 2020S/20AT Automatic Antenna Tuner and Switch Package	**$9,734.98**



500 Watt 160-4M Linear Amplifier

With output power of 500W (PEP or Digital) and coverage from 1.8 through 70.5 MHz, this user-friendly, compact (11.5" W x 6.2" H x 10.6" D), and lightweight (17.20 lbs.) RF power amplifier is great for DXpeditions and field ops. The built-in switching-mode power supply operates with an extended mains voltage range of 100-240VAC, with no internal switch over. A rugged LDMOS transistor and broadband input circuit present an SWR below 1.5 without retuning throughout the frequency range. Features include two antenna outputs, intelligent protection circuits, frequency filters that exceed EMC requirements, and integration with ACOM 04AT/06AT tuners. Note that 4M operation is not authorized in the U.S. and many other countries. Legal operation is the responsibility of the user. All ACOM 500S amplifiers come with either pre-wired 120VAC or 240VAC plug, installed and tested at DX Engineering.

AOM-500S-120 ACOM 500S with Pre-Wired 120VAC Plug **$3,854.99**
AOM-500S-240 ACOM 500S with Pre-Wired 240VAC Plug **$3,854.99**



1,000 Watt HF+6M Linear Amplifier

Easy to operate and easy to maintain, ACOM's 1000 is an extraordinary good value for HF operators. You can switch bands without a tuner, provided VSWR stays below 3.1. That gives you an edge during a contest scramble. Broadband input matching means that your radio will always see a very good load across the entire 1.8-54 MHz spectrum. Specially mounted relays deliver virtually silent QSK operation. This amplifier can also withstand significant amounts of reflected power and signal fluctuations. All ACOM 1000 amplifiers come with either pre-wired 120VAC or 240VAC plug, installed and tested at DX Engineering.

AOM-1000-120 ACOM 1000 with Pre-Wired 120VAC Plug **$4,364.99**
AOM-1000-240 ACOM 1000 with Pre-Wired 240VAC Plug **$4,364.99**



700 Watt HF Linear Amplifier

As long as the VSWR stays below 3:1, this amplifier lets you change between the 160 and 10 meter bands without using an external tuner. The A1010 can withstand up to 240 watts of reflected power, up to 100 milliseconds of drive spikes and deep voltage drops. Its durability and front-panel controls make this amplifier an excellent choice. All ACOM 1010 amplifiers come with either pre-wired 120VAC or 240VAC plug, installed and tested at DX Engineering.

AOM-1010-120 ACOM 1010 with Pre-Wired 120VAC Plug **$3,376.99**
AOM-1010-240 ACOM 1010 with Pre-Wired 240VAC Plug **$3,376.99**

New!



1,000W HF+6M Linear Amplifier

With less than 80W input, the ACOM 1003 delivers 1,000W PEP output or 900W continuous carrier using a single ceramic/metal power triode (3CX800A7). The model features two new front panel relay switches—one to select from three antenna outputs and another to quickly engage and disengage an input attenuator for rapid tuning without transceiver adjustment. Among its many advanced features is a True Resistance Indicator bar scale meter that simplifies accurate adjustment of plate-load impedance controls. All ACOM 1003 amplifiers come with either 120VAC or 240VAC pre-wired plug, installed and tested at DX Engineering.

AOM-1003-120 ACOM 1003 with Pre-Wired 120VAC Plug **$4,899.99**
AOM-1003-240 ACOM 1003 with Pre-Wired 240VAC Plug **$4,899.99**



1,500 Watt HF Linear Amplifier

The user-friendly 2100 uses a powerful tuning aid and automatic input attenuator to let you quickly match the input impedance to the tube load impedance. As long as the VSWR stays under 3:1, you won't need an antenna tuner. A good choice for Field Day, EMCOMM and base stations, the 2100 is packed with self-protection features and will withstand up to 400 watts of reflected power. It boasts intuitive controls and OLED display for straightforward operation. Order the AOM-2100 model to wire the AC plug yourself; order the AOM-2100-240 for pre-wired 240 volt operation, tested by our techs. All ACOM 2100 amplifiers come with pre-wired 240VAC plug, installed and tested at DX Engineering.

AOM-2100-240 ACOM 2100 with Pre-Wired 240VAC Plug **$5,687.98**



1,500 Watt HF+6M Linear Amplifier

Enjoy the ACOM 1500's HF+6M coverage; low distortion and noise figures; fast and easy adjustments with its large, smooth knobs and sleek LCD screen; three antenna outputs; nearly silent input bypass and antenna relays; and diagnostic data stored in one of seven nonvolatile memory banks. All ACOM 1500 amplifiers come with pre-wired 240VAC plug, installed and tested at DX Engineering.

AOM-1500-240 ACOM 1500 with Pre-Wired 240VAC Plug **$5,122.99**



1400S Solid State 1.8-54 MHz 1,200W Linear Amplifier

The ACOM 1400S-240 version achieves 1,200W output power, PEP, or continuous carrier. The 1400S-120 version for 120VAC operation achieves 600W output power, PEP, or continuous carrier. The 1400S Remote Control Unit's (RCU) edge-to-edge color touchscreen provides an information display and amplifier operation on the desktop. Designed for simplified operation, the 1400S's RCU menus are intuitive and easy to follow, and no special skill is required when changing frequency bands. When connected to a transceiver with CAT capability, the amplifier tracks the operating frequency and changes bands automatically. Even when not interfaced to CAT, the amplifier monitors the input signal frequency through the built-in frequency counter and automatically switches bands. All ACOM 1400S amplifiers come with either 120VAC or 240VAC pre-wired plug, installed and tested at DX Engineering.

AOM-1400S-120 ACOM 1400S Amplifier w/Pre-Wired 120VAC Plug, 600W..... **$6,074.99**
AOM-1400S-240 ACOM 1400S Amplifier w/Pre-Wired 240VAC Plug, 1,200W **$6,074.99**



eBox Ethernet Remote Control Devices

The easy-to-operate eBox is an active Ethernet device which directly integrates ACOM power amplifiers to the Ethernet networks. These units have been specifically designed for remote control use with the ACOM 600S, 700S, 1200S, and 2000A with Remote Control Unit (RCU). The eBox receives specific commands via a web browser-based, user-friendly interface and forwards them to the ACOM amplifier. The eBox is compatible with all popular operating systems and web browsers (Chrome, Opera, Firefox, MS Edge, Safari, et. al.). Universal wall supply with Euro-US plug adapter included.

AOM-EBOX-2000-P eBox with Cable for ACOM 2000A with RCU **$757.98**
AOM-EBOX-SS-P eBox with Cable for ACOM 600S/700S/1200S **$757.98**



OMR-OM4001HFMARS



OMR-OM-4001HF



OMR-OM-2000A



OMR-OM-2000-MARS



OMR-OM-4001A

OM Power

1,500W+ Manual and Auto Tune Linear Amplifiers

DX Engineering is the exclusive North American distributor of products from OM Power, a company that has been producing high-performance, tube-style linear amplifiers for contesting and DX stations worldwide since 2004. OM Power's compact HF, HF+6, HF+MARS, and HF+6+MARS amplifiers feature one or two FU-728F tetrode tubes or GU-78B tube capable of providing stable, full legal-limit all-mode output power; 4.3" color touchscreen; easy maintenance; efficient cooling; simplified troubleshooting; advanced safeguards against high SWR, excessive current, and more; full break-in CW capability; and for auto tune models, built-in band change or frequency reading capability for modern rigs, RF sense band change support for legacy transceivers, and remote control operation via LAN and PC program download. Note that legal operation of any linear amplifier within the applicable regional or country amateur radio regulations is the responsibility of the licensed operator. Find more OM Power amplifiers at DXEngineering.com.

Manual Tune Linear Amplifiers

OMR-OM-2000	160-10M+6M, Manual Tune, 1 FU-728F Tube	**$5,199.99**
OMR-OM-4001HF	160-10M, Manual Tune, 2 FU-728F Tubes	**$6,599.99**
OMR-OM-2000-MARS	160-10M+6M+MARS, Manual Tune, 1 FU-728F Tube	**$5,724.99**
OMR-OM-3501A	160-10M, Auto Tune, 1 GU-78B Tube	**$8,829.99**
OMR-OM4001HFMARS	160-10M+MARS, Manual Tune, 2 FU-728F Tubes	**$8,469.99**

Auto Tune Linear Amplifiers

OMR-OM-2000A	160-10M, Auto Tune, 1 FU-728F Tube	**$6,429.99**
OMR-OM-2501AMARS	160-10M+MARS, Auto Tune, 1 FU-728F or GU-48 Tube	**$9,999.99**
OMR-OM-4001A	160-10M Auto Tune, 2 FU-728F Tubes	**$10,999.99**
OMR-OM-4001AMARS	160-10M+MARS Auto Tune, 2 FU-728F Tubes	**$12,099.99**

Band Pass Filter

OMR-OM-6BPF	Band Pass Filter, 160/80/40/20/15/10, Auto or Manual, 200W	**$1,499.99**

4O3A

New!



O3A-PGXL-SO2R

Power Genius XL Amplifiers

Enjoy exceptionally clean legal-limit power (1,500W+ PEP) at 100% ICAS duty cycles in all modes, including RTTY and FT8. Power Genius amplifiers are fully plug-and-play and network-capable, boasting 1.8-54 MHz coverage; easy-to-monitor and automate operation through a built-in Ethernet LAN connection or the LCD touchscreen display; and interface compatibility with any modern transceiver, including seamless integration with FlexRadio transceivers. The fully integrated meters and controls allow the amps to be controlled from the FlexRadio SmartSDR® software, whether on SmartSDR for Windows, iOS, or your Maestro throughout your existing network. Other features include automatic band switching; the first MEffA™ system (Maximum Efficiency Algorithm) controls efficiency as a function of output power; smart cooling control; CAT, Band decoder, LAN interface for operation with other exciters; exceptional spurious performance thanks to its diplexed filters; fast high-SWR protection; and remote control with desktop application in LAN or WAN networks.

Choose from Two Models

The PGXL-SO2R model boasts true SO2R capability. It includes dual inputs with 70 dB isolation to serve two radios independently, reducing station complexity and cost. The PGXL-3WAY features a 3-to-1 antenna switching module for the connection of three antennas to a single radio. **Enter "PGXL" at DXEngineering.com for many more details.**

O3A-PGXL-SO2R	Power Genius XL Amplifier, SO2R Capabilities	**$5,999.00**
O3A-PGXL-3WAY	Power Genius XL Amplifier, 3-to-1 Antenna Switch	**$5,490.00**

Prices are subject to change without notice.



IC-PW2 HF/50 MHz ALL Band 1 kW Linear Amplifier

ICOM

The IC-PW2 features 65V LDMOS power transistors and a high-efficiency power supply to achieve a full 1kW output with a 200VAC input. The IC-PW2 instantly operates at full power once turned on. Enjoy clean transmission with its Digital Pre-Distortion when used with the IC-7610. This corrects the signal distortion from the IC-PW2 by applying inverse distortion to the output signal from the IC-7610 exciter in advance. Automatic Antenna Selection (2x6) allows for two radio inputs and six SO-239 female antenna jacks, providing fully automatic antenna-switching. No AC plug installed. Requires installation of a user-supplied NEMA 6-15P plug. Includes cables; detachable controller with 4.3" touchscreen; controller bracket/stand and dummy panel; and ground lug.

- Powerful SO2R (Single Operator/Two Radio) capabilities with one IC-PW2
- When using dual independent receivers, which the IC-7610 and IC-7851 have, watch two bands at once by using two antennas
- High-efficiency and low-noise cooling system
- When using two radios with the IC-PW2, one multi-band band-pass filter can be shared with two radios by switching the receiving radio
- Remote-control operation through a LAN connection with optional PC software
- Directly compatible with IC-7760, IC-7851, IC-7610, IC-7300, IC-718, IC-7100

ICO-IC-PW2	IC-PW2 Amplifier	**$5,499.95**
ICO-OPC-599	Accessory Port-Y Adapter Cable, 7-Pin DIN and 8-Pin DIN Receptacles to 13-Pin DIN Plug	**$77.99**
XYZ-32GB-SD	32GB Memory Card	**$20.99**



Wideband HF+6M Linear Amplifier

RM ITALY

The BLA600 is a fully automatic wideband compact linear amplifier that covers all the HF bands and 6 meters, from 1.8 to 54 MHz. The unit delivers up to 500W SSB PEP and features dual MCU controls for protection against high RF input driver levels, high output VSWR, overcurrent, and more. Its dual large diameter MCU-controlled multispeed fans keep it cool and running at peak efficiency. For CW QSK operation, the BLA600 provides fast and silent PIN diode switching. Its rugged 50V Freescale MRFE6VP5600H power transistors deliver high reliability and consistent high linear RF output. The low-noise amplifier also includes three user-configured teflon-insulated antenna output sockets, 2 x 16 LCD display, and built-in AC power supply.

RMY-BLA600 Wideband Linear Amplifier...**$3,086.99**



BLA350 Plus HF Linear Amplifiers

RM ITALY

These fully automatic units feature up to 300W output at less than 12W input on 160-10M. Take advantage of the BLA350's two 50VDC MACOM MRF150 RF Power FETs that can be automatically or manually switched to one of six low pass filters, providing more than 50 dB of harmonic suppression. Fast hardware protection circuits safeguard the power transistors in the event of high SWR on the antenna feedline. The BLA350 Plus may be used on all narrow band modes of transmission, including SSB, CW, AM, FM, RTTY, and FT8. A 16-character LCD display shows frequency, filter selection, PA temperature, and more.

RMY-BLA350P-120	300W HF Linear Amplifier, 110-120 Vac	**$1,215.99**
RMY-BLA350P-240	300W HF Linear Amplifier, 207-244 Vac	**$1,215.99**

Palstar

New!



LA-1K HF Amplifier

This 1,000W (160-6M) power amplifier is equipped with dual LDMOS transistors, providing full output at a nominal 40W to 50W input. It features RF sensing for automatic band changing, so a transceiver band interface cable is not required. The LA-1K will work with a range of tuners and transceivers. It has been custom-designed as the perfect match for the Palstar HF-AUTO Auto Tuner. The amplifier's newly designed front panel has a color TFT touchscreen for amplifier display and operation. Other features include:

- 3 SO-239 (UHF Female) antenna output connectors
- Phone keying and ALC connectors
- Instant band changing
- T/R vacuum relay
- "Pure Signal" output
- Built-in 50VDC, 42A power supply for operation on 120VAC at 15A or 240VAC at 10A (two 8' power cords included)

Enter "LA-1K" at DXEngineering.com for more details.

PAS-LA-1K LA-1K HF 1,000W Amplifier...**$3,795.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

JM TAIWAN



Toptek VHF & UHF Power Amplifiers

Choose from a great selection of feature-rich, well-engineered VHF, UHF, and VHF/UHF power amplifiers from Toptek, a company that has been developing amateur radio solutions since 2003. Available in models with maximum output power from 80 to 350W, these lightweight and compact units come with a host of ham-friendly benefits, including pushbutton controls; multiple protection circuits; large, easy-to-read green backlit screens (TEK-PA-350V; TEK-PA-150U); front panel power and SWR metering; automatic fault for high SWR; RF sense keying on all models, PTT input on SSB/CW models; selectable input ranges; mode switch for automatic SSB delay and peak power metering; built-in low-noise receive preamplifiers; effective cooling from large, thermostatically controlled fans or heat sinks; and more.

Enter "Toptek" at DXEngineering.com for specific details on each amplifier model.

Part Number	Frequency Coverage	Max. Input Power	Max. Output Power (PEP)	Operating Modes	Cooling	Price
TEK-PA-80V-U	2M/70cm	5-10W	80 Watts	FM	Heat Sink	**$465.99**
TEK-PA-80U	70cm	5W	80 Watts	FM/SSB/CW	Heat Sink	**$269.99**
TEK-PA-150U	70cm	2-5W	160 Watts	FM	Heat Sink	**$739.99**
TEK-PA-85V	2M	3-5W	85 Watts	FM/SSB/CW	Heat Sink	**$259.99**
TEK-PA-180V	2M	5W	180 Watts	FM/SSB/CW	Fan	**$449.99**
TEK-PA-350V	2M	7.5/15W	350 Watts	FM/SSB/ CW/Digital	Fans	**$879.99**

RM ITALY



RMY-LA-435



RMY-LA-250V

HF and VHF Amplifiers

For over 40 years, RM Italy has made versatile and compact amplifiers for base, mobile and handheld radios. By controlling every phase of the manufacturing process, RM Italy is able to maintain incredibly high quality standards and capitalize on opportunities for innovation. These LA-250/305(V) VHF and HLA-305(V) HF solid state amplifiers are a smart choice for operators using a mobile or portable radio. The LA-144/145 models are a great way to maximize your HT's operating reach.



RMY-MLA100



RMY-MUA100

Part Number	Frequency Coverage	Max. Input Power	Max. Output Power (PEP)	Operating Modes	Cooling	Price
RMY-LA-250	2 Meters	25 Watts	200 Watts	AM, FM, SSB, CW	Heat Sink	**$679.99**
RMY-LA-250V	2 Meters	25 Watts	200 Watts	AM, FM, SSB, CW	Fans	**$729.99**
RMY-LA-435	70cm	5 Watts	70 Watts	AM, FM, SSB, CW	Heat Sink	**$429.99**
RMY-LA-144	2 Meters	4 Watts	60 Watts	AM, FM, SSB, CW	Heat Sink	**$189.99**
RMY-LA-145	2 Meters	5 Watts	85 Watts	AM, FM, SSB, CW	Heat Sink	**$219.99**
RMY-MUA100	70cm	5 Watts	100 Watts	AM, FM, SSB, CW	Fan	**$655.99**
RMY-MLA100	160-10M+6M	10 Watts	100 Watts	AM, FM, SSB, CW, Digital	Heat Sink	**$831.99**
RMY-MLA100V	160-10M+6M	10 Watts	100 Watts	AM, FM, SSB, CW, Digital	Fans	**$851.99**
RMY-MLA300V	160-10M	12 Watts	300 Watts	AM, FM, SSB, CW, Digita	Fans	**$836.99**
RMY-MLA400V	160-10M	35 Watts	400 Watts	AM/FM/SSB/ CW/Digital	Fans	**$999.99**

HA8DU PRODUCTS



HA8DU Antenna Tuners

Well regarded by operators throughout Europe, HA8DU manual and automatic desktop antenna tuners deliver pure performance in a well-built unit inside and out. Features include switching for tuned or direct connection to multiple antenna ports, a bypass connector for an external dummy load, cross-needle power and SWR meters on manual models, a top-grade turns counter on manual roller tuners and heavy-gauge coated steel enclosures. These tuners deliver 1.8 MHz to 30 MHz coverage and smooth tuning that make them a long-lasting addition to any station. Choose from the DU1500T 1,500W T-Type and 4,000W DU4000ML L-Type model.

Manual

HDU-DU1500T Manual Antenna Tuner, T-Type, 1,500W, 1.8-30 MHz **$819.99**

HDU-DU4000ML Manual Antenna Tuner, L-Type, 4,000W, 1.8-30 MHz..... **$2,139.99**

Automatic



The DU4000AL offers advanced automation and display features that are truly unique for a 4kW HF antenna tuner, making this unit the modern-day station command center for automatic band, antenna, and memorized tuning selections. It comes with 1.8 to 30 MHz coverage; an intuitive-to-operate 5-color, 5" touch screen that provides control, status, and metering functionality for all station operations; and complete tuning memorization of four rear panel antenna ports as well as direct voltage control of an external 8-port antenna switch and stack match switching. The DU4000AL interfaces with all types of transceivers; an RS-232 interface can be used in-line between specific Yaesu, Kenwood, or Elecraft transceivers and the PC, or you can use the tuner's direct Icom "remote" CI-V input while connecting the transceiver to the PC by USB. Remote operation is available over the Internet via LAN-Ethernet, supported by a Windows application.

HDU-DU4000AL Automatic Antenna Tuner, 4,000W, 1.8-30 MHz..... **$4,749.99**

COMET™



CAT-300 Manual Antenna Tuner

Combining performance and visual appeal, the versatile CAT-300 from Comet covers 1.8 to 50 MHz and makes a fine addition for base station or portable operations. The compact unit handles up to 300 watts PEP SSB and features a precision cross meter; tuning of dipoles, vertical, mobile whip, long wire, and other types of antennas; simplified tuning with a "Band" inductor selector labeled by amateur frequencies; simultaneous measurement of forward power, reflected power, and SWR; illumination that allows easy viewing in low ambient light; push-button switches for selecting Average or PEP in 30- or 300-watt ranges; and switches for tuner bypass and two antenna ports.

Enter "CAT-300" at DXEngineering.com for more details.

CMA-CAT-300 Manual Antenna Tuner..... **$345.95**

Remote Control Panel for PA-350V & PA-150U

JM TAIWAN



This user interface (4.5" W x 4.1" H x 1.3" D) duplicates the LCD and pushbutton keypad operation of the front panel of the connected amplifier. The green backlit alphanumeric LCD displays simultaneous digital input power, output power, and SWR readings. Both the amplifier front panel and the remote control panel are connected in parallel, so they display identical information, and the operator may control select functions and monitor the amplifier with either panel simultaneously. Pushbutton functional selections and specialized, user-defined functions and menu selections are all remotely displayed, including incremental power output settings. Also features a 3.5mm Amp PTT Keying Input Jack. Includes 16.4' 4-pin mini-DIN control cable that connects the amplifier and powers the remote control.

TEK-REMOTE Remote Control Panel for PA-350V and PA-150U **$169.99**

(((ON ALL BANDS)))

Check out our blog, ***OnAllBands.com***, for articles on upcoming DXpeditions, what's new in contesting, digital operations, and a range of other topics.

⚠ **WARNING:** For Proposition 65 information, see p. 3

INRAD international radio

mAT-TUNER Antenna Tuners



A proud member of the venerable Vibroplex family of amateur radio products, mAT-TUNER from INRAD offers a line of antenna tuners recognized for their sturdy construction, ease of use and exceptional performance. These automatic tuners deliver the goods: machined, black oxidized aluminum cases; quality multi-level PC boards; control direct from transceiver front panel for Icom, Kenwood and Yaesu transceivers (some models); up to 200W power handling capabilities (see MA-Y200 model for select Yaesu transceivers); models for QRP and outdoor operation; 5-1,500 Ω matching range; and 16,000 frequency memories (some models). Tuners come with a two-year parts/labor warranty. A reliable choice for tuning dipoles, verticals, Yagis, long-wire or virtually any other coax-fed antenna. **Enter "MTU" at DXEngineering.com for more details and transceiver compatibility.**

MTU-MAT-10

MTU-MAT-10	QRP, for Yaesu FT-817/818, 1.8–54 MHz at up to 30W; Includes Two 10440 Li-Ion Batteries	**$229.95**
MTU-MAT-30	For Yaesu, HF+6 at up to 120W	**$189.95**
MTU-MAT-40	Outdoor Weatherproof Long-Wire and Vertical Wire Tuner, 1.8-54 MHz	**$279.95**
MTU-MAT-K100	For Kenwood/Icom, 1.8-54 MHz at up to 120W	**$184.95**
MTU-MAT-125E	Most HF Transceivers, Requires Only 100 mW to Actuate; Includes Two 18650 Li-Ion Batteries	**$189.95**
MTU-MAT-180H	For Kenwood/Icom, 1.8-54 MHz at up to 120W, Allows Manual Fine Tuning	**$189.95**

Automatic Antenna Tuner for Icom IC-705 All Mode Portable Transceiver

This lightweight and compact device adds simple and convenient tuning functions to the IC-705, with the ability to tune dipoles, verticals, Yagis or virtually any coax-fed antenna within the range of 1.8 MHz-54 MHz. The unit boasts tuning times of 0.1 to 5 seconds full tune, 0.1 seconds memory tune; comes housed in a sturdy aluminum shell; has 16,000 frequency memories; and includes the mAT-705 control cable which connects to the TUNER socket of the radio and the CON socket of the tuner.

MTU-MAT-705PLUS	Automatic Antenna Tuner for IC-705	**$229.95**
MTU-MAT-RC1	Coaxial Cable Assembly for MAT-705PLUS	**$10.00**

Automatic Antenna Tuner for Yaesu Transceivers



The MAT-Y200 Antenna Tuner (1.8 MHz-54 MHz, 200W PEP, 50W Digital) works with Yaesu transceivers that support FC-30, FC-40, FC-50 Yaesu external tuners. A partial list includes the FT-100D, FT-857/D, FT-897/D, FT-450/D, FT-891, FT-950, FT-991, FT-991-A, FTDX-1200, FTDX-3000, FTDX10, FTDX-101D, FTDX-101MP. The included interface cable connects the radio to the tuner, which provides band data and 12VDC power.

MTU-MAT-Y200	Automatic Antenna Tuner for Yaesu Transceivers	**$249.95**

mAT-M200 200W Icom/Kenwood Automatic Antenna Tuner



The mAT-M200 is compatible with all modern 100W Icom and Kenwood transceivers that come equipped with the standard 4-pin tuner socket. It offers automatic antenna tuning across the entire HF spectrum, plus 6 meters, with a frequency range of 1.8-54 MHz and supports maximum input power up to 200W (100W maximum above 50 MHz) and 100W HF for FT8/Digital modes.

MTU-MAT-M200	200W Automatic Antenna Tuner for Icom/Kenwood	**$249.95**

Antenna Tuner Cables

MTU-MAT-40-M	For Icom Transceivers	**$14.50**
MTU-MAT-40-K	For Kenwood Transceivers	**$14.50**
MTU-MAT-40-Y	For Yaesu Transceivers	**$14.50**
MTU-MAT-CI	For Use with MAT-K100 and MAT-180H (Icom)	**$19.00**
MTU-MAT-CK	For Use with MAT-K100 and MAT-180H (Kenwood)	**$19.00**
MTU-MAT-CY	For Use with MAT-K100 and MAT-1500PRO (Yaesu)	**$19.00**

YAESU



Automatic Antenna Tuners

Yaesu offers several antenna tuners to complement its base and portable radios. All models cover 1.8-54 MHz. FC-30 and FC-40 handle 100 watts; FC-80 and FC-90 versions handle 10W. Switching bands is easy, thanks to the tuners' memory storage and laser-fast tuning.

YSU-FC-30	Antenna Tuner for FT-857/897	**$289.99**
YSU-FC-40	Antenna Tuner for FTDX-1200/300 and FT-450/857	**$379.99**
YSU-FC-80	Antenna Tuner for FTX-1 Field	**$365.95**
YSU-FC-90	Antenna Tuner, Unbalanced Long Wire & 50 Ω Antenna Compatibility	**$365.95**

Palstar

Automatic Antenna Tuners



HF-AUTO 1,500 Watt Automatic Antenna Tuner

Palstar is taking the low-power autotuner to the next level with the HF-AUTO. This unit uses quiet, continuously variable components to create a perfect antenna match, without noisy relays. It can tune with a mere 2 watts of power, yet can handle 1,500 watts. The HF-AUTO covers 1.8 through 54 MHz, tunes within six seconds and has a large, backlit LCD with four lines of large print for easy readout of RF power, SWR, frequency, antenna port selection, position of inductor and capacitor, mode indication and setup information.

PAS-HF-AUTO 1,500 Watt Automatic Antenna Tuner **$1,795.99**

AT2K 2,000 Watt Antenna Tuner



Building upon Palstar's impressive AT1500CV tuner, this AT2K 2,000 Watt Antenna Tuner features a new, smaller roller inductor, allowing the AT2K to tune from 160 meters to 6 meters. It can match dipoles, center-fed doublets, verticals, end-fed wire, delta loops, beams, Windoms, inverted vees and many more antenna types.

The AT2K features three impedance matching controls for greater tuning range, six-position antenna selector switch and Peak/Peak Hold metering in two ranges, 300 and 3,000 watts. Standing Wave Ratio measurements are displayed with this illuminated cross-needle meter. Its chassis is made of 11-gauge aluminum with a powdercoated finish on the front and top cover.

- Wide impedance range 20 to 1,500 Ω from 160 to 6 meters (assuming resistive load)
- Low minimum custom variable capacitors, 15pF to 400pF at 4.5 kV
- 26 uH 5 kV ceramic body roller inductor with turns counter
- Silver-plated inductor wheel shaft and contact wheel

PAS-AT2K 2,000 Watt Antenna Tuner **$795.99**

AT4K 2,500 Watt Antenna Tuner



The legendary AT4K 2,500 Watt Antenna Tuner built the Palstar reputation for high quality and durability. Updated for the 21st century, the AT4K now has a switchable, dual-movement active peak and peak hold wattmeter. The selection between unbalanced or balanced output is relay-switched with a front panel control on the AT4K.

The AT4K T-matching wide range network uses a 1:1 unbalanced-to-balanced transformer in the input of the network. When the network is properly tuned, an impedance of 50 Ω is presented to the input and output of the balun.

- T-match circuit with impedance matching range from 8 to 2,000 Ω
- Custom large value variable capacitors, 460pF at 6 kV
- 10 Amp silver-plated ceramic body roller inductor handle-driven crank
- 11-gauge aluminum chassis, powdercoated on front and top

PAS-AT4K 2,500 Watt Antenna Tuner **$1,395.99**



LAZ-LZT-LT4



LAZ-LZT-TWIN-4K

Manual Antenna Tuners

LazTuner® High Power Tuner

The engineers at LazTuner have a simple message about their lineup of high-power tuners: "Your antenna is going to like it." These tuners represent the pinnacle of quality manufacturing. They are made from top-grade components, including an oversized roller inductor with pro gear reduction and large and precise tuning knobs, vernier variable capacitors, 10mm copper RF straps, PTFE insulated wires, A2 stainless steel screws, porcelain and Bakelite supports, an oversized 4:1 balun with two cores, robust switches, anodized aluminum front plate, and much more. The LT-Classic models feature 1.8-30 MHz coverage, 4,000W power handling, 20-1,500 Ω capacity, easy-to-use front panel, and sturdy 19" housing. Backlit meters display forward and reflected power switchable in three ranges (40W, 400W, 4,000W). The LT4 version has two coaxial outputs, two tuned outputs, and bypass function. The LT4B model features two tunable coaxial connections, bypass, and one balanced connection. The LT4C has two tunable connections and bypass function. Rear panel 12VDC input for meter lights.

LAZ-LZT-LT4	2 Coax Outputs/2 Tuned, 1 Bypass	**$3,319.99**
LAZ-LZT-LT4B	2 Tunable Coax Connections/1 Balanced, 1 Bypass	**$3,109.99**
LAZ-LZT-LT4C	2 Tunable Coax Connections, 1 Bypass	**$2,539.99**

Antenna Tuners, Symmetrical

The 1.8-30 MHz TWIN-10K symmetrical antenna tuner supports 10,000W. Blue LED lit forward and reflected power meters can be switched between 100W, 1,000W, and 10,000W. The 4K model features air capacitors; the 10K model is equipped with vacuum capacitors that deliver higher voltage tolerance. Both balanced models feature a silver copper tape roller system for reduced losses and maximum efficiency. Rear panel 12VDC input for meter lights.

LAZ-LZT-TWIN-10K	Symmetrical Antenna Tuner, 10,000W	**$5,599.99**
LAZ-LZT-TWIN-4K	Symmetrical Antenna Tuner, 4,000W	**$4,499.99**

We stock many more items than we can show. See them all at DXEngineering.com!

⚠ WARNING: For Proposition 65 information, see p. 3

LDG Z-100A-DXE Automatic Antenna Tuner and Interface Cables Package



DX Engineering and LDG Electronics have teamed up to exclusively offer the Z-100A Automatic Antenna Tuner bundled with seven 36" cables: six interface cables for use with many popular Alinco, Icom, Kenwood, and Yaesu transceivers, and one DC power cable compatible for use with Elecraft, FlexRadio, and other 100W rigs. Weighing only 1.5 lbs., the compact Z-100A (6.30" W x 1.50" H x 6.30" D) features LDG's famous 10:1 SWR tuning range that matches dipoles, verticals, end-fed wires, G5RVs, or even off-center-fed dipoles and Windom antennas. Covering 160 through 6 meters, the Z-100A delivers 125W PEP SSB and CW, and 30W Digital. The tuner works with all HF radios up to 125 watts RF output and can be interfaced with dozens of modern transceivers (an interface cable is not required for semi-automatic operation). Users benefit from its internal frequency counter and 2,000 memories to store each operating frequency with antenna tuning parameters. Memory retuning occurs in only 100 milliseconds, with the initial full tuning cycle requiring an average of only six seconds. Depending on the rig used, hams can execute quick automatic tuning either by pressing a button on the tuner or by pressing a button on the tuner or transceiver.





LDG-RT-RC-100

Remote Antenna Tuner and Console Package

Just install one of these near your feedpoint, and you'll remedy a lot of power loss issues due to SWR in your feedline. The tuner is packed with 2,000 memories for instant band switching with sizzling fast speed and precision. It can tune 4 to 800 Ω loads and is well suited for dipoles, verticals, inverted-Vs, beams or any coax-fed antenna.

The 100 series handles up to 125 watts SSB/CW, and 30 watts digital. This combo package includes a remote control unit. The controller has an integrated DC power injector to supply the tuner, plus an on/off switch and tune button for comprehensive tuner control.

LDG-RT-RC-100 100 Watt Remote Tuner and Console **$299.99**

Antenna Tuner Cables

The proper link between your tuner and radio is essential. LDG Electronics makes it easy to create the perfect match with these interface cables.

Part Number	Radio	Notes	Price
LDG-IC-PAC	Icom	For radios with AH-3/4 port, 14"	**$10.99**
LDG-Y-ACC	Yaesu	For FT-100/857/891/897/991A	**$12.99**
LDG-Y-ACC-2	Yaesu	For dx10, dx1200, 450, 950, others	**$12.99**
LDG-Y-ACC-3	Yaesu	For dx101D, dx101MP, and dx3000	**$12.99**
LDG-DC-PWR-CABLE	LDG	Replacement power cable, LDG devices	**$5.99**



Z-11ProII Automatic Antenna Tuner

- 125 watts power handling maximum
- 1.8 to 54 MHz frequency range
- 0.1 to 6 second tuning time, 0.1 second memory tune
- 4,000 memories with automatic storage
- Tunes 6 to 100 Ω loads (16 to 150 Ω on 6M)
- Can operate using four AA batteries with user-installed holder
- Requires 6 to 16VDC at 300mA maximum, 25uA standby

LDG-Z-11PROII **$219.99**



AT-1000ProII Automatic Antenna Tuner

- 1,000 watts power handling maximum
- 1.8 to 54 MHz frequency range
- 2,000 memories for each antenna and auto configuration storage
- Tunes 6 to 1,000 Ω loads (16 to 150 Ω on 6M)
- 10 second tuning time, 0.2 second memory tuning
- Bar graph LED display shows SWR and selectable power ranges

LDG-AT1000PROII **$569.99**



AT-100ProII Automatic Antenna Tuner

- 125 watts power handling maximum
- 1.8 to 54 MHz frequency range
- Two-position switch
- 2,000 memories for each antenna and auto configuration storage
- Tunes 6 to 1,000 Ω loads (16 to 150 Ω on 6M)
- Matches virtually any coax-fed antenna
- Bar graph LED display shows power, SWR, mode and status
- Requires 11 to 16VDC at 500mA

LDG-AT-100PROII..... **$279.99**



AT-200ProII Automatic Antenna Tuner

- 250 watts power handling maximum
- 1.8 to 54 MHz frequency range
- 2-position switch with 8 antenna memories
- 0.5 to 6 second tuning time
- Tunes 6 to 800 Ω loads (6 to 3,600 Ω with 4:1 balun)
- 4,000 memories for instantaneous band switching
- Easy-to-read LED display for RF power, SWR and status
- Requires 11 to 16VDC at 750mA

LDG-AT-200PROII..... **$319.99**



Z-100Plus Automatic Antenna Tuner

- 125 watts power handling maximum
- 1.8 to 54 MHz frequency range
- 0.1 second memory tune
- 2,000 memories, sorted by frequency
- Tunes 6 to 800 Ω loads (16 to 150 Ω on 6M)
- SO-239 in/out connections for dipoles, verticals, beams, etc.
- Requires 7 to 18VDC at 100mA maximum

LDG-Z-100PLUS..... **$199.99**



AT-600ProII Automatic Antenna Tuner

- Tunes 6 to 800 Ω loads
- 600 watts power handling maximum
- 1.8 to 54 MHz frequency range
- Two-position switch with memories for each position
- 0.5 to 6 second tuning time, 0.1 second memory tune
- 4,000 memories for instant band switching
- Requires 11 to 16VDC at 750mA

LDG-AT-600PROII..... **$419.99**

Automatic Remote Antenna Tuner and Remote Control Unit

CG ANTENNA



This weatherproof tuner works for long wires, verticals, dipoles, and other amateur, MARS or CAP operations between 1.8-30 MHz. The antenna wire connects to the unit's high-voltage standoff insulator stud. A UHF female SO-239 connects the station coax, and a ground stud may be used for a counterpoise or earth ground. Featuring a 12-1,000 Ω range with power handling up to 200W PEP SSB/40W FT8, the CG-3000 is automatically activated with a low-power carrier. Low SWR tuning results are stored in a non-volatile memory which facilitates fast tuning on adjacent frequencies. The unit employs low-pass filtering to reduce spurious emissions and comes with 16' control cable to connect a 13.8VDC 2A power supply (not included). Includes mounting brackets and hardware. Optional Remote Control Unit CG-CTU below.

CGA-CG-3000 Remote Antenna Tuner, 1.6-30 MHz **$871.99**

Remote Control Unit for CG-3000

The CG-CTU supplies the CG-3000 with power and a way to trigger the tuning process remotely. A provided 32.8' control cable assembly links the devices together. It also includes a tuner interface and power connection for Icom transceivers. The tuner is supplied with power via the radio, and the tuning process can be triggered via the Icom transceiver's "Tune" button. The CG-3000/CG-CTU combo works with all other rigs with an included connector cable that serves as a DC cable for connection to the station 13.8VDC power supply. Also includes an ON/OFF power switch and a TUNE button.

CGA-CG-CTU Remote Control Unit for CG-3000 ..... **$69.99**

Automatic Antenna Tuner

New!



Palstar

Rated for 1,000W of RF power, this fully automatic touchscreen antenna tuner features a low-loss L-Network and dual relay switching for each location where high RF voltage is switched. With frequency coverage of 1.8-30 MHz, the unit comes with selectable high-power 50 Ω RF load that switches "in" while tuning, ensuring that the transmitter sees a low SWR during auto-tuning adjustments. Other features include a relay that can be used to interrupt the amplifier PTT keying line whenever auto-tuning is in process or in case of antenna fault. Match settings are automatically stored in memory based on frequency counter data. Users benefit from quick match recall cycles of about 250 milliseconds.

PAS-AMU-1K Automatic Antenna Tuner, 160-10M, 1.8-30 MHz **$1,595.99**

AH-730 Antenna Tuner



Icom's AH-730 antenna tuner lets you automatically tune a 23' or longer wire antenna with a suitable ground plane for portable or mobile HF/50 MHz use. The "PTT Tune" function provides for simple operation when band-changing and supports remote control from Icom transceivers. High-speed automatic tuning only takes 2-3 seconds, but when re-tuning to the same frequency, matching is achieved in as little as one second because of the AH-730's built-in 45 memory slots that store minimum SWR settings. Mounting kit, 32' control cable, and weatherproof cap included.

ICO-AH-730 Antenna Tuner **$569.99**

ICOM

DXEngineering.com is loaded with detailed photos, specs, videos, and more!

⚠ WARNING: For Proposition 65 information, see p. 3

4O3A

Tuner Genius XL Antenna Tuners



O3A-TGXL-1X3

Smartly engineered and built with high-quality components, both tuners from 4O3A provide coverage of 1.8-54 MHz up to 2000W SSB/CW with an impressive tuning range up to 10:1 SWR at reduced power. All functions can be controlled at the front panel's 4.5" color touchscreen display or remotely via LAN and a Windows software application. High-precision "peak responding" RF power and SWR meter displays eliminate the need for a separate meter in your shack. The tuners are made to interface with any HF transceiver, but are specially designed to complement FlexRadio transceivers and the Power Genius XL Amplifier. In the TGXLSO2R version, users gain full use SO2R (single operator/two radio) operation, including support of multiFLEX™ operation, when the tuner is used with FlexRadio 6600 or 6700 transceivers. The SO2R model includes two inputs and two outputs (each input is paired with one output). Non-matrix SO2R switching is manual or automatic by frequency. The TGXL-1X3 model includes one input and three outputs, making it a great choice when multiple antennas are involved. Other features of the Genius XL Antenna Tuners include manual or fully automatic tuning operations, seamless SmartSDR™ software integration, up to 10:1 SWR matching range, and quick tuning times.

O3A-TGXL-1X3	Antenna Tuner, 1 Input/3 Antenna Outputs	**$2,199.00**
O3A-TGXLSO2R	Antenna Tuner, 2 Input/2 Antenna Outputs for SO2R	**$2,499.00**

ACOM

04AT Remote Automatic Antenna Tuner



Powered and controlled by ACOM's solid state HF+6M amplifiers, this antenna tuner delivers automatic and manual tuning to ensure the proper impedance match between radio and amplifier. Full tuning is completely automatic, and tuning patterns can be stored in its nonvolatile memory (or transferred to a PC for future use). Tuner information is displayed on the amplifier's screen for easy use. It has built-in voltage, power, and hot-switching protection, and the unit can be mounted indoors or outdoors.

AOM-04AT	Remote Automatic Antenna Tuner	**$1,499.99**

ACOM

06AT Automatic Antenna Tuner



Made to work exclusively with ACOM 500S, 600S, 700S, 1200S and 2020S solid-state amplifiers, the 06AT provides continuous coverage from 1.8-30 MHz and 50-54 MHz along with advanced amp/transceiver protection features and two operating modes: 100% automated Full Tuning or Fast Tuning that retrieves previous tuning results. The tuner employs a built-in four-port antenna switch that automatically matches the impedance of the operator-chosen antenna output by transforming it to 50 Ω with SWR below 1.5 at the tuner input (typically below 1.3), providing an optimum load impedance for the amplifier. Operators can select among several antenna profiles based on the bandwidth of the connected antenna (narrow, normal, broadband, etc.). Power and control functions come directly from a connected ACOM amp. Fully automated operation requires a CAT, COM or CI-V frequency reading interface cable between the transceiver and amplifier.

Enter "06AT" at DXEngineering.com for more details.

AOM-06AT	Automatic Antenna Tuner	**$1,763.99**

ACOM

Automatic Antenna Tuner and Switch for ACOM 2020S Amplifier



Optimized and specifically designed for use with the ACOM 2020S solid-state amplifier, this tuner for HF+6 includes an integrated four-way antenna switch. The tuner automatically selects one of four available antenna outputs (assignable to specific bands by the operator) and matches the impedance of the chosen antenna feedline to 50 Ω with SWR below 1.5:1 at the tuner input (typically below 1.3). For CAT transceivers, a single press of the amplifier's TUNE button is all you need to establish user-tuning presets. The 20AT can be located up to 330 feet away from the shack (indoors), saving you operating space. Also take advantage of improved harmonic suppression via a low-pass L filter; tuning in under five seconds and less than 0.05 seconds for non-volatile memory presets; automatic or manual switching options; bypass mode that allows direct operation of broadband antennas; advanced protection for overvoltage, overcurrent, and excessive power; integrated lightning arrestor and bleeder resistor for static discharge protection; and many more features. **Enter "20AT" at DXEngineering.com for more details.**

AOM-20AT	Antenna Tuner for ACOM 2020S Amplifier	**$1,799.99**

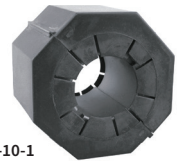
DX ENGINEERING

Color-Coded Ferrite RF Noise Reduction Kits


DXE-XCVR1-RFI

There's nothing more frustrating than searching through a box of unmarked ferrite toroids and beads, unsure of which ones are right for your application. The problem: they all look the same, but they're made from different mixes of ferrite, a ceramic made from oxides of magnetic metals. DX Engineering has selected mixes designed to block and dissipate RF currents, a technique that is proven to suppress radio frequency interference (RFI). Each mix works best over a certain frequency range. By color-coding our ferrite products, you can tell a toroid made from 31-mix from one made with 77-mix at a glance, taking the guesswork out of finding the right piece to place on your feedlines. Parts are color-coded as follows:

- 31-Mix, Blue – 1 MHz to 300 MHz
- 61-Mix, Red – 200 MHz to 2 GHz
- 43-Mix, Silver – 25 MHz to 300 MHz
- 75-Mix, Green – 150 KHz to 30 MHz
- 52-Mix, Orange – 200 MHz to 1 GHz
- 77-Mix, Pink – 100 KHz to 50 MHz


DXE-CSB31-10-1

More Ferrite kits at DXEngineering.com.

DXE-ACDCGEN1-RFI	For AC/DC Generator, Two 3" I.D. Toroids, Mix 31	**$99.99**
DXE-ACDCGEN2-RFI	For AC/DC Generator, Two 1" I.D. Snap-On, Mix 31	**$52.99**
DXE-CSB31-10-1	One 1" I.D. Snap-On Bead, Mix 31	**$34.99**
DXE-CSB31-275-10	Ten .275" I.D. Snap-On Beads, Mix 31	**$34.99**
DXE-CSB31-525-5	Five 0.5" I.D. Snap-On Beads, Mix 31	**$34.99**
DXE-CSB31-750-5	Five .75" I.D. Snap-On Beads, Mix 31	**$36.99**
DXE-CSB31-COMBO	4 Small, 2 Med., 2 Large Snap-On Beads, Mix 31	**$41.99**
DXE-CSB61-COMBO	20 Snap-On Bead Pack, Mix 61	**$106.99**
DXE-CSB75-375	One .375" I.D. Snap-On Bead, Mix 75	**$27.99**
DXE-CSB75-750-2	Two Large .75" I.D. Snap-On Beads, Mix 75	**$48.99**
DXE-LA2-RFI	For Linear Amplifier, 1 Toroid, 3 Snap-On, Mix 31	**$83.99**
DXE-LA3-RFI	For Linear Amplifier, 1 Toroid, 4 Snap-On, Mix 31	**$72.99**
DXE-TC31-24-4	Four 1.4" I.D. Toroids, Mix 31	**$62.99**
DXE-TC31-40-1	One 3" I.D. Toroid, Mix 31	**$61.99**
DXE-TC43-14-10	Ten .90" I.D. Toroids, Mix 43	**$51.99**
DXE-TC43-24-4	Four 1.4" I.D. Toroids, Mix 43	**$63.99**
DXE-TC43-82-25	25 .52" I.D. Toroids, Mix 43	**$61.99**
DXE-TC52-24-2	Two 1.4" I.D. Toroids, Mix 52	**$44.99**
DXE-TC61-24-2	Two 1.4" I.D. Toroids, Mix 61	**$60.99**
DXE-TC75-24-2	Two 1.4" I.D. Toroids, Mix 75	**$47.49**
DXE-TC77-14-8	Eight .90" I.D. Toroids, Mix 77	**$45.99**
DXE-TC77-24-2	Two 1.4" I.D. Toroids, Mix 77	**$45.99**
DXE-XCVR1-RFI	For HF Base Station, 2 Toroids, 3 Snap-On, Mix 31	**$49.99**

DX ENGINEERING

High Impedance Common Mode RF Choke Kit



This 40-toroid, Mix-31 solid ferrite bead choke kit provides the simplest and most effective technique of creating RF isolation at an antenna feedpoint or feedline termination. Covering 1.8-54 MHz, these beads—installed on a user-supplied coaxial cable prior to connector installation—provide high common mode impedance resulting in received noise reduction, reduced RF on the shield, better antenna performance, elimination of phasing errors and erroneous meter readings, the best 1:1 balun, and other benefits for applications including Yagis, dipoles, verticals, and phased array element feedpoints. The DXE-FBC kit's 0.500" I.D. ferrite beads come with 48" long heat shrink tubing to secure them in place. Simply slide the beads over any standard 0.405" coaxial cable and use a heat gun or hair dryer to secure them for long-lasting weather protection.

DXE-FBC	Choke Kit, 40 Beads, 1.8-54 MHz	**$152.99**

Assembled 50 Ω Choke Baluns



Choke baluns ensure that RF does not flow on the outside shield of feedlines, phasing lines, etc. The CFC-50A COMTEK balun includes 75 heavy-duty mix-31 RF choke beads on a length of RG400 PTFE coax terminated with silver-plated PTFE PL-259/UHF male connectors. The balun comes assembled except for the provided correct length of heat-shrink tubing, which needs to be installed. The choke provides excellent common mode impedance and handles up to 5 kW from 1.8 to 54 MHz. The CFC-50X model with 15 beads uses DXE-8X coax and has SO-239/PL-259 connectors.

COM-CFC-50A	50 Ω Choke Balun, Assembled, 75 Beads	**$131.49**
COM-CFC-50X	50 Ω Choke Balun, Assembled, 15 Beads	**$59.99**
Accessories		
DXE-RADP-3	Stainless Steel Radial Plate with 20 Bolt Sets	**$99.99**
DXE-SSVC-2P	V-Saddle Clamp, Fits 1" to 2" Tube	**$19.49**



CM7 Common-Mode Feedline Choke

REZ ANTENNA SYSTEMS

Made in the USA, this 50 Ω inline 1:1 common-mode feedline choke consists of seven mix-31 ferrite beads and 240 series (RG-8X) Ultra Flex coax with SO-239 Female and PL-259 Male connectors. Designed to solve some of the most common issues that can negatively impact antenna system tuning and performance, the CM7 provides 35-40 dB of attenuation from 1-300 MHz. Simply install the 18.25" CM7 at the feedpoint of your antenna and attach your existing coaxial cable to the opposite end. It can be used with many popular antenna types, such as EFHW, dipoles, random wires and verticals, to improve tuning consistency and antenna performance.

REZ-CM7 Inline 1:1 Common-Mode Feedline Choke, 50 Ω, UHF Male to UHF Female.....**$61.00**

49:1 UNUN

CG ANTENNA

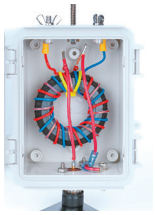


The BL-49 UNUN from CG Antenna is an outdoor HF antenna feedpoint transformer that's particularly suitable for building end-fed half-wave antennas. It is built with heavy-gauge wire and a large toroidal ferrite core which handles up to 600W PEP over the entire range from 1.8-30 MHz. Its waterproof case is made from high-strength plastic and features a valve to drain off condensation while preventing insects from getting inside. A stainless steel eye-hook at the top provides an attachment point for a support rope. Also on top is a stainless steel stud and wing nut for the antenna wire. A bottom-mounted SO-239 and a second wing nut allow the installation of an optional counterpoise wire or ground connection.

CGA-11365-49 49:1 UNUN.....**$372.99**

CHAMELEON ANTENNA

Baluns and UNUNs



CHA-UNUN-BALUN-9

Built to benefit a range of antenna systems, Chameleon Baluns and UNUNs are designed to enhance impedance transformation and signal efficiency while minimizing interference. Each unit features an FT-240-43 toroidal core precisely wound with PTFE-insulated, 14 AWG enameled copper wire; durable weatherproof housing; and top-mounted stainless steel eyebolt that provides a secure anchor point for base or portable operation. Check individual devices for antenna compatibility.

CHA-UNUN-BALUN-1 1:1 Current Balun, 1-100 MHz, 50 Ω Input, 1,000W PEP.....**$115.00**
CHA-UNUN-BALUN-4 4:1 UNUN, 1-52 MHz, 200 Ω Input, 1,000W PEP **$115.00**
CHA-UNUN-BALUN-6 6:1 UNUN, 1.5-70 MHz, 300 Ω Input, 1,500W PEP **$115.00**
CHA-UNUN-BALUN-9 9:1 UNUN, 1.5-30 MHz, 450 Ω Input, 1,200W PEP **$115.00**

CHELEGANCE JNCRadio



JBalun-915 1:1 Feedline Choke

New!

Designed for inline use with 50 Ω coax, the JBalun operates effectively from 1.8-30 MHz, handling up to 500W PEP. It features 6061 hard anodized aluminum housing and employs Mn-Zn ferrites. Choke is 6.7" long.

NCE-CH0022512-M JBalun-915 1:1 Feedline Choke, SO-239 .....**$174.00**

HF/6M RFI Choke

COMET

New!



Made for easy installation, this choke prevents or reduces RFI carried into the shack by your coax. The TRF-MINI features a PL-259 connector on one end and an SO-239 on the other. The cable assembly includes a ferrite core at the center. At just 7" long, the choke should easily fit behind most radios. It can handle up to 350W and covers 1.8-54 MHz.

CMA-TRF-MINI HF/6M RFI Choke.....**$29.95**

InnoVAntennas

New!



2M Current Balun

Don't let unwanted currents flowing along your coax ruin your time on the air. Designed to keep common mode currents off your feedline for better antenna performance, this 50 Ω current balun from InnovAntenna features a ferrite core covered in a glue-filled UV-stable heat sink, plus power handling of 1.5 kW SSB/1.2W CW/1 kW Digital. Ring terminals allow for easy connection to the feedpoint of your antenna.

IVA-18484-0501TB 1:1 144 MHz Current Balun Choke.....**$119.99**

DX ENGINEERING

ISO-PLUS Ethernet RF Filter



Give yourself another tool to help you pull out those weak signals and operate more effectively. DX Engineering has designed a simple way to suppress electromagnetic interference (EMI) and reduce common-mode RF interference (RFI) to and from Ethernet cables used between your personal computers, printers, routers, cable modems, transceivers and other devices. This interference is a common problem on Gigabit Ethernet Cat5e and Cat6 cables used for network LAN connections. The patent pending ISO-PLUS is an inline Ethernet filter that joins two RJ-45 connectors together to fight common-mode RFI and EMI noise interference for radio frequencies from well below 1 MHz to over 100 MHz. Installed on either end of Ethernet cables, ISO-PLUS filters mitigate RFI caused to the Ethernet-connected device. At the same time they reduce interference to radio receivers and other Ethernet devices that is caused by RFI or EMI generated by an Ethernet-connected device. The ISO-PLUS provides common mode attenuation resulting in reduced or eliminated EMI or RFI caused by power supplies, wall power adapters, touch lamps, appliances, and just about anything else near RJ-45 cables. The RF filters do not affect Ethernet data signal levels or speed. Each ISO-PLUS comes with one shielded RJ-45 patch cable (about six inches). The filters work with Cat5, Cat5e, Cat6 and Cat6a cables with RJ-45 connectors. Available in sets of two or ten filters. The ISO-PLUS units do NOT pass DC voltages and do not support PoE (Power over Ethernet).

DXE-ISO-PLUS-2 Ethernet RF Filter, 2 Units **$81.99**
DXE-ISO-PLUS-10 Ethernet RF Filter, 10 Units **$355.99**

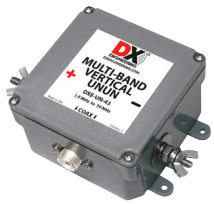
USB Isolator Surge Protection Device



DX Engineering's USB Isolator (DXE-ISO-USB) is an inline solid-state device that provides surge protection between two USB 2.0 devices, typically a transceiver and a computer. It protects a transceiver from a voltage surge coming from the computer, and vice versa, protects a computer from a surge from a transceiver. A passive device that requires no power, the USB Isolator has two ports, one USB A and one USB B. It is bi-directional, so it can be installed in either direction. The supplied 19.7" USB A to USB B standard patch cable can be reversed and used for either type of equipment connection with the opposite connector to the mating port on the ISO-USB. A user-supplied cable must have the opposite mating connector for the ISO-USB, and its other end must have the USB connector type that provides connection to the second piece of equipment or computer. The device's maximum USB 2.0 speed is 480 Mbps. Backwards compatible with USB 1.0/1.1/12 or 480 Mbps. This supports RS-232 COM port data speeds faster than the 115,200 bps baud rate selection found in most USB capable equipment. The device does not support USB C GB/s data speeds and does not pass sufficient DC current for charging or powering a device.
Enter "ISO-USB" at DXEngineering.com for more details.

DXE-ISO-USB USB Isolator Surge Protection Device.....**$129.99**

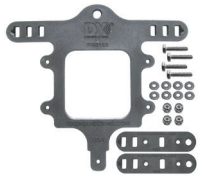
4:1 High Power UNUN for Non-Resonant Vertical Antennas



Using non-resonant multi-band antennas? This UNUN helps your antenna system operate at maximum efficiency by minimizing transmission line losses caused by SWR. You can add this UNUN to any 43 foot antenna system; it covers 1.8-30 MHz and can handle 2 kW CW/5 kW SSB. A feedpoint connection kit is available separately.

DXE-UN-43 High Power 4:1 UNUN **$201.99**
DXE-UN-BRKT-5A UNUN Mounting Kit.....**$18.99**

Wire Antenna Balun Mounting Bracket Kit for Maxi-Core® 20 Baluns



Mounting your balun correctly is critical to maintaining its reliability. Here's the right solution to make sure your balun is ready to face Mother Nature—the Wire Antenna Balun Mounting Bracket Kit. To ensure proper balun operation, DX Engineering created this mounting kit designed specifically for single-band wire antenna setups. At the heart of each kit is a nearly indestructible mounting bracket made from a UV-resistant poly-resin compound. You'll also get a pair of DX Engineering end insulators, along with all the stainless hardware required for installation. Its unique design provides minimum capacitive coupling between the antenna wire and the field surrounding the balun core. The DXE-WA-BMB is compatible with all Maxi-Core® 20 baluns and legacy Comtek baluns.

DXE-WA-BMB Wire Antenna Balun Mounting Bracket Kit **$29.99**

UNUNs

LDG ELECTRONICS



The RU-1-1 1:1 UNUN helps remove unwanted RF from the coax cable shield. This 200W PEP common-mode RF choke is ideal for short coax cable runs or non-resonant antennas. The RU-1-1 features SO-239 sockets for both input and output. The RU-9-1 UNUN allows easy interface of vertical and end-fed antennas to the LDG line of automatic antenna tuners. This 200W PEP UNUN may also be used for many antenna projects where a 4:1 or 49:1 UNUN is needed.

LDG-RU-1-1 1:1 UNUN, Coax Choke **$29.99**
LDG-RU-9-1 9:1 UNUN, Interface for Vertical and End-Fed Antennas ...**$29.99**

Check out our YouTube channel for in-depth tech tips and product demos!

⚠ **WARNING:** For Proposition 65 information, see p. 3

DX ENGINEERING

DX Engineering Maxi-Core® 20 Baluns and Feedline Choke

Get ready to make a significant upgrade to your station's performance with the next generation of baluns and feedline choke from the team at DX Engineering.



DXE-MC20-V4-1

Years of R & D coupled with major advancements in test equipment and techniques combined with custom ferrite materials have allowed our engineers to design these devices, signaling a new era of RF performance across the 1.8 to 54 MHz frequency range. Maxi-Core 20 Baluns and Feedline Choke:

- Reduce or eliminate currents on the outside of your feedline, allowing you to hear and to be heard much better
- Perform at the highest levels of efficiency in transmit or receive applications
- Provide much higher common mode impedance (CMI) across a greater frequency range—AM Broadcast band and the HF/6M spectrum—compared to competing models and even previous DX Engineering and Comtek models (CMI is a measure of how well a balun or feedline choke reduces exterior RF currents traveling through it and on the outside of the coaxial cable)
- Keep more RFI/BCI out of your antenna and receiver
- Transfer more of your transmitted signal to the antenna for high efficiency, the best antenna pattern, and maximum performance
- Force currents on the feedline or antenna to be equal for maximum efficiency and more symmetrical antenna patterns
- Handle full-legal-power-plus
- Feature 1/4-20 stainless steel hardware, a high-quality silver-plated PTFE dielectric SO-239 (UHF female) input connector, four weepholes to eliminate internal moisture, and weather-resistant NEMA enclosure with convenient mounting holes

Hear and be heard with DX Engineering Maxi-Core 20 Baluns and Feedline Choke! Choose from 5 options:



DXE-MC20-FC

DXE-MC20-1-1, 1:1 Current Choke Balun
For all HF-6M balanced antennas with a 50 Ω feedpoint, including resonant dipoles, loops, Yagis and beams.

DXE-MC20-FC, 1:1 Feedline Choke
Use this high CMI line isolator inline on 50 Ω feedlines, at the antenna, tower or shack end of the feedline.

DXE-MC20-1-1T, 1:1 Current Choke Balun
This 1:1 "T" model provides outdoor transition from any impedance balanced "ladder" line to coaxial cable and a wide impedance range tuner. Made for high-SWR non-resonant multiband antenna systems to force currents equal on the balanced line to minimize radiation and RFI, and maximize antenna performance.

DXE-MC20-C4-1,. 4:1 Current Choke Balun
For use on antennas with a 200 Ω feedpoint and on any impedance ladder line, especially antenna systems with higher impedance. This model tolerates operation at high SWR on non-resonant multi-band antennas.

DXE-MC20-V4-1, 4:1 Voltage Balun
Use this 200 Ω to 50 Ω transformer on random long-wire and OCF antennas. This true voltage balun tolerates high SWR and is intentionally designed with low CMI for antennas that need a transformer without RF choking for easier tuner operation.

Enter "DXE Maxi" at DXEngineering.com for complete details.

DXE-MC20-1-1	Maxi-Core 20 High CMI 1:1 Current Choke Balun	**$169.99**
DXE-MC20-FC	Maxi-Core 20 High CMI 1:1 Feedline Choke, Line Isolator	**$169.99**
DXE-MC20-1-1T	Maxi-Core 20 High CMI 1:1 Current Choke Balun, Tuner Model	**$147.99**
DXE-MC20-C4-1	Maxi-Core 20 High CMI 4:1 Current Choke Balun	**$169.99**
DXE-MC20-V4-1	Maxi-Core 20 Low CMI 4:1 Voltage Balun	**$141.99**

Cable Strain Relief Brackets

Mounting your balun or choke is only part of the equation—you still need to make sure your coaxial cables are secure and free from the stress of gravity. Our Cable Strain Relief Brackets will help prevent the cable from pulling from your PL-259 connector.

DXE-CSR8X-1	Cable Strain Relief Assembly, for RG-8X Cable	**$26.99**
DXE-CSR213-1	Cable Strain Relief Assembly, for RG-213/U Cable	**$26.99**


DXE-CSR213-1

In-Stock Parts Typically Ship The Same Day.

DX ENGINEERING

300 and 450 Ω Ladder Line




DXE-LLC-1P

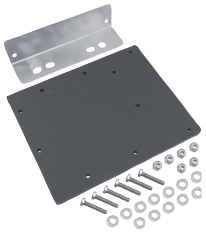
DX Engineering's 300 and 450 Ω Ladder Line is a transmitting-grade low-loss parallel-wire RF feedline featuring a strong, waterproof, UV black polyethylene insulation. The 300 Ω ladder line is constructed of 18-gauge conductors with 19 strands of copper clad steel wire, resulting in a velocity factor of 0.88. It is ideal for use with multi-band dipoles or other multi-band antennas.

The 450 Ω ladder line is constructed of 16-gauge conductors with 19 strands of copper clad steel wire, ideal for use with our Reversible Beverage Antenna, DXE-RBS-1P. The wire makes the line strong enough for long horizontal runs between supports. Actual impedance is a nominal 400 Ω with a nominal velocity factor of 91%.

DXE-LL300	300 Ω Ladder Line	per foot **$0.77**
DXE-LL300-5C	300 Ω Ladder Line, 500' Spool	**$281.99**
DXE-LL450-5C	450 Ω Ladder Line, 500' Spool	**$385.99**
DXE-LL450	450 Ω Ladder Line	per foot **$1.18**
DXE-LL450-1K	450 Ω Ladder Line, 1,000' Spool	**$792.99**
DXE-LL-INS	Ladder Line Supports for 450 Ω line, 25 Per Pack	**$22.49**
DXE-LLC-1P	Ladder Line Coupler for 450 and 300 Ω Ladder Line	**$11.99**

DX ENGINEERING

Balun or Feedline Choke Mounting Plate and Bracket Kit



This kit provides a variety of mounting solutions for DX Engineering Maxi-Core 20, Comtek and other brands that use 4" x 4" x 2" plastic NEMA boxes. This rugged polymer plastic plate and stainless steel bracket kit may be used at the base of any vertical, on the boom of a Yagi or beam antenna, or even on a mast or post. This unique perpendicular mount provides a beneficial separation between the ferrite of the balun or choke and the metal tubing, resulting in improved choking performance. This UV black high-strength polymer mounting plate provides added isolation between the feedline and the antenna system for optimal performance and decoupling. The stainless steel mounting bracket is laser cut for optional heavy-duty DX Engineering V-Saddle Clamps.

DXE-MC20K-BRKT	Mounting Plate and Bracket for Maxi-Core 20	**$37.99**

Choke and Mounting Packages
Also available are packages which include both a Maxi-Core 20 choke and mount. Choose from the 1:1 current choke balun and vertical/beam mount package for 50 Ω feedpoint antennas or the 1:1 feedline choke and inline mount combo for 50 Ω coaxial feedlines.

DXE-MC20-FCM	1:1 Feedline Choke and Inline Mount Package, 50 Ω	**$207.98**
DXE-MC20-1-1BM	1:1 Balun, Mount Package for Verticals/Beams, 50 Ω	**$207.98**

Balun Upgrade Kits



Ready to take your Yagi, beam or rotatable dipole to the next level? These kits provide everything you need to take advantage of improved station performance: 1:1 DX Engineering Maxi-Core® 20 Balun, mounting bracket, hardware and clamps for your antenna update. Maxi-Core® 20 Baluns handle full-legal-power-plus and provide higher common mode impedance across a greater frequency range than competing models. These baluns exhibit very low insertion loss and inherently low SWR. Kits include:

- DXE-MC20-1-1 Maxi-Core® 20 1:1 Current Choke Balun made for all HF-6M balanced antennas with a 50 Ω feedpoint, including resonant dipoles, loops, Yagis and beams
- DXE-BMB-4P Balun Mounting Bracket designed for Maxi-Core® 20 baluns, with poly-resin plate and stainless steel hardware
- DXE-BALUN-WK Balun Wiring Kit, which includes wire, terminal and hardware for antenna connection
- DXE-ECLS-150 or DXE-ECLS-200 Stainless Mounting Clamp with Studs for antennas with 1.50" booms or masts or up to 2" booms or masts

DXE-BN86-20UP150	Balun Upgrade Kit for 1.5" Boom or Mast	**$226.96**
DXE-BN86-20UP200	Balun Upgrade Kit for up to 2" Boom or Mast	**$227.96**

Feedpoint Connectors

DX ENGINEERING

These connectors provide a direct transition from cable to feedpoint for a variety of antennas that do not have a coaxial connector. They feature two 4" or 11" silver-soldered solid tinned-copper 12 AWG wire leads which are epoxy potted into a plastic housing for a weather-sealed connection.


DXE-FFPM


DXE-FFPC-SO239

DXE-FFPC-SO239	SO-239, 4" Leads, Flanged	**$46.99**
DXE-FFPC-SO239ZD	SO-239, 11" Leads, Flanged	**$55.99**
DXE-FPC-716DIN	7-16 DIN Female, 4" Leads	**$86.99**
DXE-FFPC-N	N Female, 4" Leads, Flanged	**$53.99**
DXE-FFPM	Feedpoint Connector Mounting Bracket Kit	**$14.49**

⚠ **WARNING:** For Proposition 65 information, see p. 3

DX ENGINEERING



Glass Antenna Insulators

Operators have relied on glass insulators since the dawn of radio because they're a proven and effective way to improve the efficiency of your wire antenna—regardless of its configuration. DX Engineering's new Glass Antenna Insulators have an antique look, yet handle a significant amount of stress without breaking, making them well-suited to most wire antenna and support rope applications.

DXE-TGI-2 Glass Antenna Insulators, Pair **$15.99**

MASTRANT ANTENNA GUYING



DXE-MSG3M-C2



DXE-MSG3M-C3

Mastrant Guying Hardware Packs

Properly guying your antenna is critical. That's why DX Engineering has worked with Mastrant's recommendations to assemble hardware packs with perfectly-matched components. These kits are tailor-made to work with Mastrant's guying rope, so you can build a safe, reliable guying system for your wire or vertical antenna.



DXE-MSG2-5M-PL

Part Number	Kit Type	Rope Size	Kit Contents	Price 2 Pack
DXE-MSG2M-C1	Coupling	2mm	Shackles, Thimbles, Duplex Clips	**$13.99**
DXE-MSG2M-C2	Coupling	2mm	Carabiners, Thimbles, Duplex Clips	**$12.49**
DXE-MSG2M-C3	Coupling	2mm	Quick Links, Thimbles, Duplex Clips	**$13.49**
DXE-MSG3M-C1	Coupling	3mm	Shackles, Thimbles, Duplex Clips	**$14.49**
DXE-MSG3M-C2	Coupling	3mm	Carabiners, Thimbles, Duplex Clips	**$15.99**
DXE-MSG3M-C3	Coupling	3mm	Quick Links, Thimbles, Duplex Clips	**$17.99**
DXE-MSG1-3M-T1	Tensioning	1-3mm	Quick Links and Tensioners	**$11.99**
DXE-MSG4-9M-SPL	Pulleys	4-9mm	2 Pack of Stainless Steel Pulleys	**$29.49**
DXE-MSG3M-BD	Bull Dog Grips	3mm	Bull Dog Grips	**$14.49**
DXE-MSG2-5M-PL	Pulleys	2-5mm	Galvanized Steel Pulleys	**$16.49**

More hardware packs available at DXEngineering.com

Antenna Support Rope

Synthetic Textile Industries' double-braided Dacron/Polyester ropes are not weakened by decay or mildew, and provide excellent resistance to abrasion. The color-sealed, black polyester yarn used in the braided jacket also protects the cord from degradation caused by ultraviolet light. It is available in a variety of diameters and lengths.

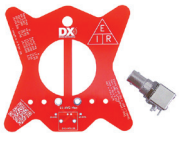
Part Number	Diameter	Break Strength	Length	Price
SYN-DBR-94-100	3/32"	260 Lbs.	100'	**$13.59**
SYN-DBR-94-1000	3/32"	260 Lbs.	1,000'	**$78.99**
SYN-DBR-125-100	1/8"	420 Lbs.	100'	**$18.49**
SYN-DBR-125-1000	1/8"	420 Lbs.	1,000'	**$116.99**
SYN-DBR-187-100	3/16"	770 Lbs.	100'	**$22.99**
SYN-DBR-187-350	3/16"	770 Lbs.	350'	**$61.99**
SYN-DBR-187-500	3/16"	770 Lbs.	500'	**$85.99**
SYN-DBR-187-1000	3/16"	770 Lbs.	1,000'	**$149.99**
SYN-DBR-312-100	5/16"	1,790 Lbs.	100'	**$31.99**
SYN-DBR-312-500	5/16"	1,790 Lbs.	500'	**$134.99**
SYN-DBR-437-500	7/16"	2,150 Lbs.	500'	**$279.99**

STI



DX ENGINEERING





Single-Band Low-Power Dipole Kit

Looking for the perfect project for your club, scout troop, or STEM group, or a way to introduce ham radio to your kids or grandchildren? The Single-Band Low-Power Dipole Kit gives you the essentials to build a dipole antenna: a center insulator, two end insulators, and a right angle BNC connector. The center insulator and end insulators are essentially printed circuit boards. Once assembled, the center insulator doubles as a wire winder. The end insulators also function as rulers, aiding in antenna tuning. You provide the coaxial cable, light support rope, and 14 to 26 gauge wire cut to the length of your desired frequency. Solder the six soldering points and you're ready to fine-tune your antenna and get on the air! **Enter "DWK" at DXEngineering.com.**

Single-Band Low-Power Dipole Kit

DXE-DWK Single-Band Low-Power Dipole Kit, Each **$9.99**
DXE-DWK-10 Single-Band Low-Power Dipole Kit , Pack of 10 ..... **$99.99**
DXE-DWK-25 Single-Band Low-Power Dipole Kit , Pack of 25 ..... **$199.99**

Need help with your project? Call the tech line at 330-572-3200!

Antenna Support and Guy Line Ropes

MASTRANT ANTENNA GUYING



Specifically designed for guying and support, Mastrant ropes come in several sizes and strength ratings. They're perfect for wire antennas, supporting Yagi booms and elements, as well as guying verticals and antenna masts. These non-conductive ropes are made from synthetic fibers that won't collect moisture or suffer from UV degradation.

All rope comes in a 328 foot/100 meter roll, and popular selections are available in 100 foot/30 meter and 1,650 foot/500 meter rolls (not listed in table; enter "MSG 1650" at DXEngineering.com). Choose from standard Mastrant-P or stronger M. R (yellow) and O (orange) are bright reflective versions of P. High-strength Q ropes have a polyester/polypropylene core. Enter "MSG" at DXEngineering.com for more options.

Part Number	Type	Diameter	Length	Strength	Price
MSG-MO05031	Mastrant-O	5.8mm/.228"	100' (31M)	540 Lbs.	**$38.99**
MSG-MP02100	Mastrant-P	2mm/.079"	330' (100M)	220 Lbs.	**$24.99**
MSG-MP02200	Mastrant-P	1.6 mm/.063 "	660' (200M)	220 Lbs.	**$49.99**
MSG-MP03031	Mastrant-P	3mm/.118"	100' (31M)	440 Lbs.	**$13.99**
MSG-MP03100	Mastrant-P	3mm/.118"	330' (100M)	440 Lbs.	**$34.99**
MSG-MP03200	Mastrant-P	2.6mm/.102"	660' (200M)	440 Lbs	**$69.99**
MSG-MPA3031	Mastrant-P	3.5 mm/0.141"	100' (31M)	300 Lbs.	**$18.99**
MSG-MPA3100	Mastrant-P	3.5 mm/0.141"	330' (100M)	300 Lbs.	**$48.99**
MSG-MP04031	Mastrant-P	4mm/.158"	100' (31M)	882 Lbs.	**$23.99**
MSG-MP04100	Mastrant-P	4mm/.158"	330' (100M)	882 Lbs.	**$54.99**
MSG-MP04200	Mastrant-P	4.4mm/.173"	660' (200M)	970 Lbs.	**$109.99**
MSG-MP05100	Mastrant-P	5mm/.197"	330' (100M)	1,102 Lbs.	**$78.99**
MSG-MP05100	Mastrant-P	4.9mm/.193"	660' (200M)	1,190 Lbs	**$78.99**
MSG-MQ06100	Mastrant-Q	6mm/.236"	330' (100M)	730 Lbs.	**$114.99**
MSG-MQ08100	Mastrant-Q	8mm/.315"	330' (100M)	1,700 Lbs.	**$155.99**
MSG-MQ11100	Mastrant-Q	11mm/.394"	330' (100M)	2,780 Lbs.	**$218.99**
MSG-MM02031	Mastrant-M	2mm/.079"	100' (31M)	529 Lbs.	**$20.99**
MSG-MM02100	Mastrant-M	2mm/.079"	330' (100M)	529 Lbs.	**$54.99**
MSG-MM03031	Mastrant-M	3mm/.118"	100' (31M)	860 Lbs.	**$32.99**
MSG-MM03100	Mastrant-M	3mm/.118"	330' (100M)	860 Lbs.	**$88.99**
MSG-MM04100	Mastrant-M	4mm/.158"	330' (100M)	1,984 Lbs.	**$178.99**
MSG-MM05100	Mastrant-M	5mm/.197"	330' (100M)	2,535 Lbs.	**$282.99**
MSG-MR02100	Mastrant-R	1.6mm/.063"	330' (100M)	220 Lbs.	**$26.99**

Mastrant Rope Accessories



The aluminum Mastrant Rope Winder (ARW32A) can be used on diameters up to 1/4". It is designed to allow the rope to be wound in a figure-8 shape to prevent twisting and looping. Various holes on its side are designed to conveniently catch and secure the ends of the rope, or a carabiner or other termination element. The 12" aluminum Ground Peg (ASGP3A) is suitable for guying small masts and vertical antennas. The Tensioning Reel allows guy lines on portable masts to be quickly and easily tensioned and released. The rope is also stored on the reel.

MSG-ARW32A Aluminum Rope Winder **$9.99**
MSG-ASGP3A Aluminum Ground Peg **$8.99**
MSG-CLPT771 Tensioning Reel **$29.99**
MSG-APCBGM Canvas Storage Bag **$4.99**

Kit for Securing Wire Antenna Between Two Points

Use the PWS2P24 kit to secure a wire antenna stretched between two points (mast, tree, building, etc.). The kit contains 330' of thin Mastrant suspension rope (9/64") for attaching to the arms of a dipole, for example; two pulleys; 30' of 1/4" rope that attaches pulleys to fixed points; and hardware to secure and tension to the anchor points. Antenna wire not included.

MSG-PWS2P24 For Securing Wire Antenna Stretched Between 2 Points.... **$66.99**

Wire Antenna Supports

These kits provide support for end-fed and inverted-V antennas. PWCSD24 (center support) contains 100' of 3/16" lift rope and pully with shackle. The PWESD24 (end support) comes with 330' of 1/8" rope for tensioning the legs and two pulleys.

MSG-PWCSD24 Wire Antenna Center Support **$32.99**
MSG-PWESD24 Wire Antenna End Support **$43.99**

Guying Sets



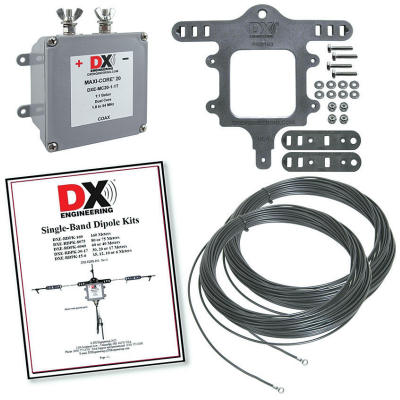
These standard and heavy-duty guying sets contain material suitable for one direction of mast guying, so Mastrant notes that, in practice, you may need three or four sets for each level (height) of guying. When deciding how many levels to choose, always follow the mast manufacturer's recommendations. Sets come with 66' or 98' of Mastrant-P, Mastrant-R (reflective yellow), or Mastrant-O (reflective orange) terminated with a thimble; shackle used to connect the rope with thimble to the mast; chain coupler for connecting the rope to the ground anchor (pin, anchor eye, etc.); Tensioner LineLok for setting the necessary length and tension of the rope; and duplex clip for additional securing of the rope after tensioning.

MSG-PWIA13H Heavy-Duty Guying Set, 98' of 3/16" (5mm) Rope **$35.99**
MSG-PWIA13S Standard Guying Set, 66' of 5/32" (4mm) Rope **$28.99**
MSG-PWIA21H Heavy-Duty Guying Set, 98' of 3/16" (5mm) Rope **$41.99**
MSG-PWIA21S Standard Guying Set, 66' of 5/32" (4mm) Rope **$33.99**
MSG-PWIB13H HD Guying Set, 98' of 3/16" (5mm) Rope, Yellow **$37.99**
MSG-PWIB21H HD Guying Set, 98' of 3/16" (5mm) Rope, Yellow **$44.99**
MSG-PWIC13H HD Guying Set, 98' of 3/16" (5mm) Rope, Orange **$41.99**
MSG-PWIC21H HD Guying Set, 98' of 3/16" (5mm) Rope, Orange **$51.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

DX ENGINEERING

Single-Band Wire Antenna Dipole Kits

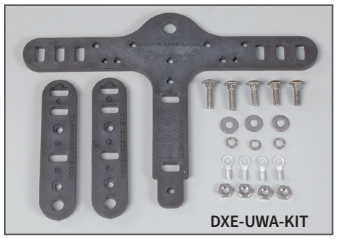


Choose from five models of rugged yet lightweight antennas that give you all the proven, reliable performance dipoles are known for plus the benefits of being constructed from high-quality DX Engineering components. Kits come with the DXE-MC20-1-1 Maxi-Core® 1:1 Balun; two 14 AWG stranded copper wires with black, relaxed PVC jacket and crimped and soldered 1/4" ring terminal on one end of each wire; high-strength wire antenna balun mounting bracket; end insulators; and stainless steel hardware. Antennas have up to a legal limit power rating of 1.5 kW when used with supplied balun. Also available are wire sets with ring terminals and hardware. **Enter "RDPK" at DXEngineering.com for more details.**

DXE-RDPK-160	Dipole Kit for 160M, Two 132' Wires	**$252.96**
DXE-RDPK-8075	Dipole Kit for 80M or 75M, Two 69' Wires	**$242.46**
DXE-RDPK-6040	Dipole Kit for 60M or 40M, Two 46' Wires	**$235.46**
DXE-RDPK-30-17	Dipole Kit for 30M, 20M, or 17M, Two 26' Wires	**$228.96**
DXE-RDPK-15-6	Dipole Kit for 15M, 12M, 10M, or 6M, Two 13' Wires	**$227.46**
DXE-ANTW-132RT	Two 14 AWG 132' Wires w/Terminals, Hardware	**$45.49**
DXE-ANTW-69RT	Two 14 AWG 69' Wires w/Terminals, Hardware	**$34.99**
DXE-ANTW-46RT	Two 14 AWG 46' Wires w/Terminals, Hardware	**$27.99**
DXE-ANTW-26RT	Two 14 AWG 26' Wires w/Terminals, Hardware	**$21.49**
DXE-ANTW-13RT	Two 14 AWG 13' Wires w/Terminals, Hardware	**$19.99**

DX ENGINEERING

Universal Wire Antenna Kits



Our Universal Wire Antenna (UWA) Kits contain parts to build several antenna types, like single band, multi-band, multi-frequency and folded dipole, doublet and inverted-V, Windom, off-center fed, Zepp, long wires, rhombic, vee beam and loop antennas.

The kits feature the new EZ-BUILD™ Center-T insulator and end insulators. The insulators' patented design features a serpentine wire grip for insulated DX Engineering Antenna Wire and DX Engineering's high strength, high-power 300 Ω ladder line. The serpentine wire connection grip is strong enough to support the antenna wires without looping or wrapping the wire ends. This allows fast and easy field antenna length adjustments without soldering.

The insulators are made of a lightweight, high strength, UV-protected material. The center-T insulator is designed to serve as a feedpoint and strain relief for antennas made with either wire or ladder line, which may be fed with either ladder line or coaxial cable. The center-T insulator can be the main support point for the antenna feedpoint by using the top center hole to attach a support rope. **DXE-UWA-KIT also serves as the mounting and support point for any DX Engineering Balun.**

The DXE-UWA8X-KIT and DXE-UWA213-KIT kits include a new strain relief bracket and P-clamps with neoprene cushions that grip the coaxial cable without deforming it, taking the weight of the hanging cable off of the connector. Each kit also includes crimp-on ring terminals for ladder line and antenna wire, and connection hardware.

DXE-UWA-KIT	Universal Wire Antenna Kit	**$30.49**
DXE-UWA8X-KIT	Universal Wire Antenna Kit for RG-8X	**$83.99**
DXE-UWA213-KIT	Universal Wire Antenna Kit for RG-213	**$85.99**
DXE-UWA-END-KIT	End Insulators, Package of 8	**$13.99**

MOONRAKER

Wire Dipole Center Insulator



The sturdy DPC-S dipole center insulator makes it easy and convenient to build HF wire dipole antennas. It includes wire terminals and mounting hardware, along with an SO-239 female coaxial connector for connecting your coaxial cable.

MKR-09-163	DPC-S HF Wire Dipole Center Insulator	**$17.99**

High Visibility Antenna Wire

Consolidated ELECTRONIC WIRE & CABLE



Consolidated Wire makes it easy to let others know to stay clear of your portable antenna installations with its 24 AWG High Visibility Antenna Wire. Made from tinned stranded copper, this wire is easy to use but hard to miss covered in orange, pink, or yellow PVC insulation. Available in spools of 100' ($8.50), 200' ($16.00), or 500' ($39.00). **Enter "CEW Visibility" at DXEngineering.com for more details.**

DX ENGINEERING

Premium Copper #14 Insulated Antenna Wire and Radial Wire



Use DX Engineering #14 Insulated Antenna Wire to achieve top performance while enjoying longer service life and trouble-free operation. This insulated copper wire is UV-resistant and lays out easily, unlike the wire that is commonly available at the "big box" stores which coils and kinks. It will last much longer in contact with the environment than bare wire. It is available in pre-cut lengths for easy dipole assembly or in bulk lengths of 500 and 1,000 feet for installing as many radials as possible with a ground-mounted vertical antenna.

DXE-ANTW-75	40M & Up, 75'	**$22.49**
DXE-ANTW-150	80M & Up, 150'	**$49.99**
DXE-ANTW-300	160M & Up, 300'	**$94.99**
DXE-RADW-500	Premium Radial Wire, 500'	**$110.99**
DXE-RADW-1000	Premium Radial Wire, 1,000'	**$207.99**

Copperweld® 18 AWG Wire



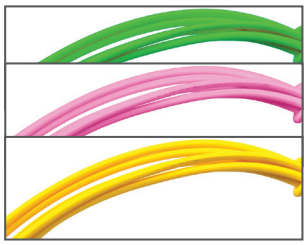
DXE-ANTCW18-1000

When you need a high-strength and durable wire for your antenna projects, 18 AWG Copperweld® provides a corrosion-resistant solution that stays stronger longer and provides excellent conductivity thanks to its thick copper skin. A good choice for HF applications, these copper-clad solid steel wires won't stretch as much as other wires, which can affect resonant frequency. Plus, they can better handle heat, humidity and whatever else Mother Nature throws their way. Available in spools from 100 to 1,000 feet.

DXE-ANTCW18-100	18 AWG Copperweld® Wire, 100' Spool	**$29.99**
DXE-ANTCW18-250	18 AWG Copperweld® Wire, 250' Spool	**$59.99**
DXE-ANTCW18-500	18 AWG Copperweld® Wire, 500' Spool	**$99.99**
DXE-ANTCW18-1000	18 AWG Copperweld® Wire, 1,000' Spool	**$149.99**

High Visibility Antenna Wire

DX ENGINEERING

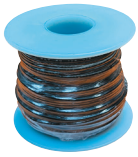


Most of the time, hams don't want to call too much attention to their antennas, especially if their HOA is watching. But for those instances when you want your installations to stand out for safety reasons, such as on Field Day, DX Engineering has a solution—High Visibility Antenna Wire available in 150, 250, and 500 foot spools. Made from premium stranded copper 14 AWG, these PVC-insulated, "Hi-Viz" wires come in bright fluorescent green, pink and yellow to alert curious onlookers, help hams work more efficiently in the field on their antenna projects, and serve as a warning in areas where children may be nearby. The relaxed, PVC insulation rolls out easily, unlike coated electrical wire which coils and kinks.

DXE-VIZ14-Y150	14 AWG Stranded Copper Wire, 150', Yellow	**$39.99**
DXE-VIZ14-P150	14 AWG Stranded Copper Wire, 150', Pink	**$39.99**
DXE-VIZ14-G150	14 AWG Stranded Copper Wire, 150', Green	**$39.99**
DXE-VIZ14-Y250	14 AWG Stranded Copper Wire, 250', Yellow	**$57.99**
DXE-VIZ14-P250	14 AWG Stranded Copper Wire, 250', Pink	**$57.99**
DXE-VIZ14-G250	14 AWG Stranded Copper Wire, 250', Green	**$57.99**
DXE-VIZ14-Y500	14 AWG Stranded Copper Wire, 500', Yellow	**$115.99**
DXE-VIZ14-P500	14 AWG Stranded Copper Wire, 500', Pink	**$115.99**
DXE-VIZ14-G500	14 AWG Stranded Copper Wire, 500', Green	**$115.99**

Stealth Antenna Wire

Consolidated ELECTRONIC WIRE & CABLE



When you want your antenna wire to go unnoticed by the watchful eyes of HOA officers, Consolidated Wire Stealth Antenna Wire makes a great choice to build center-supported HF stealth dipoles, inverted-Vs, or modest-length end-fed wire antennas. It features tough, black UV-resistant PVC insulation that stands up to hard conditions but blends into its surroundings. Even in freezing temperatures, it remains flexible. The insulation is UL-1007-rated for its excellent resistance to oils, acids, and chemicals. Constructed from lightweight 24 AWG stranded tinned copper that ensures easy rollout, the wire is available in spools of 100, 200, and 500 feet.

CEW-SANTW24-100	Stealth Antenna Wire, 100'	**$6.99**
CEW-SANTW24-200	Stealth Antenna Wire, 200'	**$12.99**
CEW-SANTW24-500	Stealth Antenna Wire, 500'	**$30.99**

Stealth Antenna Wire

DX ENGINEERING



For hams fighting less than hospitable HOAs and installation restrictions, DX Engineering Stealth Antenna wire is the ticket. The thinness of the copper-coated, 7-strand 26 AWG steel wire makes it difficult to see, yet it's surprisingly strong, with a break load of 24.5 pound-force. Plus, the Stealth Antenna Wire is jacketed in rugged black UV-resistant polyethylene for added stability. Weighing only an ounce per 62 feet, it's also ideal for portable antenna installations and a good choice for constructing center-supported HF stealth dipoles, inverted vees or modest length end-fed wire antennas. Available in spools of 150, 250 and 500 feet.

DXE-SANTW-150	26 AWG Stealth Antenna Wire, 150' Spool	**$25.99**
DXE-SANTW-250	26 AWG Stealth Antenna Wire, 250' Spool	**$41.99**
DXE-SANTW-500	26 AWG Stealth Antenna Wire, 500' Spool	**$72.99**

For new hams, check out our Getting Started HT, Mobile, and Base Radio Packages!

⚠ **WARNING:** For Proposition 65 information, see p. 3



DXL-DXLAUNCHER


DXL-ONESHOT



DXL-DXLAUNCHPLUS

GO Portable DX LAUNCHER

Air-Powered Line Launchers for Ham Radio Antennas

New!

Perfect for stringing your POTA or permanent backyard wire antennas, compressed air cannons from HamRadio 24-7 quickly, accurately, and without hassle launch weighted tennis balls attached with strong fishing line over tall canopy heights or into hard-to-reach areas using controlled PSI and a durable valve system. They integrate a drill adapter that allows for powered retrieval using any standard cordless drill. Manual winding is provided by a built-in hand grip. Launchers are compatible with standard air compressors or bike pumps. They come with assembled body, DX Reel with drill adapter, three weighted tennis balls, 350' spool of braided 30-pound line, ram rod, and manual. Choose from two models:

DX Launcher

Featuring PVC/steel construction, this model launches balls 100-plus feet at 40 PSI, 150-plus feet at 60 PSI, and approximately 200 feet at 80 PSI (its maximum pressure).*

DXL-DXLAUNCHER DX Launcher Compressed Air Cannon.....**$399.00**

DX Launcher Plus

The plus model has a two-gallon steel tank with removable barrel and handle, built-in liquid pressure gauge, safety blow valve, and reinforced fitting for field use. It launches balls 100-plus feet at 20 PSI, 200-plus feet at 60 PSI, and approximately 300 feet at 70 PSI (its maximum pressure).*

DXL-DXLAUNCHPLUS DX Launcher Plus Compressed Air Cannon.....**$499.99**
DXL-REPLREEL Replacement DX Reel,.....**$75.00**
DXL-TENNISBALLS Weighted Tennis Balls, Pack of 3.....**$20.00**

One-Shot Wire Antenna Slingshot

Designed to get fishing line accurately into trees, the One-Shot features a durable rubber bag rated at 300-plus launches and a precision 1 oz. weight to deliver repeatable shots out to 100 feet. Includes body, DX Reel, installed launch bag, and three weights.

DXL-ONESHOT One-Shot Wire Antenna Slingshot **$130.00**

***Do not exceed maximum pressure under any circumstances. Doing so may result in serious injury. See user manuals for complete safety guidelines. For more details, visit "DXL" at DXEngineering.com.**



DX ENGINEERING

Multiband Off Center Fed (OCF) Dipole Antenna Kit

This Off Center Fed (OCF) wire dipole kit offers the benefit of HF multiband operation—an unusually useful result of feeding two different lengths of wire with a 4:1 balun—as compared to a single-band resonant dipole with equal length wire legs. Low SWR band coverage is typically achieved with a transceiver's internal antenna tuner (ATU). For legal limit 1.5kW SSB and CW power handling, the cost of OCF multiband operation is the requirement of a capable external tuner. This rugged wire antenna kit includes two lengths of premium 14 gauge relaxed PVC antenna wire with soldered ring terminal for connection to the balun; one DXE-MC20-C4-1 Maxi-Core® 4:1 Balun; the patented high-strength antenna center insulator DXE-WA-BMB Balun Mounting Bracket and End Insulators, stainless steel hardware, and printed instructions. User trims the provided 48' and 113' lengths of wire to achieve the desired band coverage (80-10M or 40-10M). Add rope and supports, such as a DX Engineering Carbon Fiber Mast, all available at DXEngineering.com.

DXE-OCF-KIT Multiband Off Center Fed Dipole Antenna Kit **$244.77**

80-10M and 40-10M OCF Kits

The DXE-OCF-HP for 80-10M comes with two lengths of premium 14 AWG relaxed PVC antenna wire (96', 42'), each with a ring terminal soldered on one end; a DXE-MC20-C4-1 Maxi-Core® 4:1 Balun; DXE-WA-BMB Bracket and End Insulators; and stainless steel hardware. The DXE-OCF-HP40 kit for 40-10M is the same except for the wire lengths.

DXE-OCF-HP Multiband OCF Dipole Antenna Kit, 80-10M, (96', 42' Wires) **$243.97**

DXE-OCF-HP40 Multiband OCF Dipole Antenna Kit, 40-10M (59', 14' Wires).....**$231.97**

Multi-Band Wire Antennas

EAntenna


EAN-R2010049

Since they use multiple parallel wires arranged in a fan-style design, EAntenna calls these antennas "multi-fan" dipoles. The antennas' unique design allows each band dipole to remain separate from the others, which means you can pack multiple wire antennas in the space typically required for one. Each antenna listed below handles full legal limit power.

Part Number	Bands	Wire Length	Price
EAN-R2010050	20/15/10	34.42'	**$305.99**
EAN-R2010049	80/40	88.51'	**$330.99**
EAN-R2010048	80/40/20/15/10	88.51'	**$349.99**
EAN-R2010047	30/17/12/6	43.30'	**$289.99**
EAN-R2010046	40/20/15/10	42.31'	**$345.99**

To take advantage of our Beat-a-Price Guarantee, please Contact Us!

DX ENGINEERING

NVIS Antenna Kit



DX Engineering now makes it easier than ever to use NVIS (Near Vertical Incidence Skywave) techniques for emergency and recreational purposes. Used for decades in military applications and for in-state disaster communications, the ionospheric NVIS mode works at frequencies from 2 MHz to 10 MHz. Sturdy and easy to deploy, the DXE-NVIS-8040 kit is great for camping, QRP, ARES®, EMCOMM, SPOTA, and any use where short range HF operation from 80 to 40 meters is preferred. The kit comes with a crossed dipole antenna capable of handling 1,500 watts. The antenna's stranded wires are 14 AWG. The support rope size is 5/16". The antenna weighs in at 25 lbs., perfect for taking on the road. Guying is provided by the antenna's four legs.

The kit also includes a 15', four-section telescopic fiberglass mast collapsible to 6' (DXE-TF15); cam lock clamps; ground stakes; low-loss 50 Ω coaxial cable; antenna support rope; and complete balun mounting kit (DXE-NVIS-BMB), featuring all-in-one bracket, DX Engineering end insulators, and stainless steel hardware. A DX Engineering DXE-MC20-1-1T balun is included.

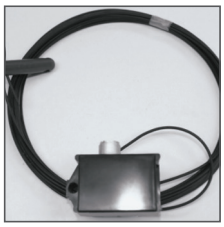
DXE-NVIS-8040 Wire Antenna, 15' Mast, Balun Mounting Kit **$549.36**

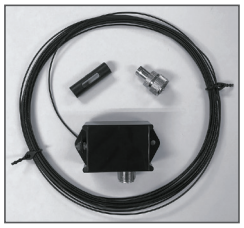
NVIS Shortened Dipole

This NVIS wire antenna kit features everything included with the DXE-NVIS-8040 but with loading coils to make the 80 meter dipole legs the same length as the 40 meter dipole legs.

DXE-NVIS-8040S NVIS Shortened Dipole Kit.....**$606.86**


PEZ-EFT-102040


PEZ-EF-10


PEZ-EF-10QRP

Par EndFedz® End-Fed Half-Wave Antennas

VIBROPLEX®

DX Engineering carries a range of full length low-power end-fed dipole antennas from the amateur radio pros at Par EndFedz®. A go-to choice for worry-free portable ops or stealth HOA installations, these versatile antennas can be mounted horizontally, vertically or as a sloper with no need for a ground plane or counterpoise. They feature a unique match box coax connection at the end of the wire for convenient and quick setup, whether hung from a tree limb, out of a hotel window, or in an attic. Stainless steel hardware and end insulators are included.

QRP End-Fed Half-Wave Antennas

Par EndFedz now offers single-band low-power HF models (25W SSB/CW, 12.5W Digital) covering 40, 30, 20, 17, 15, 12, 10, or 6 meters. **Pricing from $44.99 to $59.99. Enter "PEZ" at DXEngineering.com for details on the full lineup. Enter "PEZ QRP 25W" for low-power models.**

Part Number	Band(s)	Wire Length	Power	Price
PEZ-EF-QUAD	40/20/15/10	65'	200W SSB/CW, 100W AM/DIG	**$154.95**
PEZ-EFT-102040	40/20/10	41'	25W SSB/CW, 12.5W AM/DIG	**$89.99**
PEZ-EF102040-239	40/20/10	41'	25W SSB/CW, 12.5W AM/DIG	**$89.99**
PEZ-EF102040-BNC	40/20/10	41'	25W SSB/CW, 12.5W AM/DIG	**$89.99**
PEZ-EF-4020	40/20	66'	100W SSB/CW, 25W AM/DIG	**$99.99**
PEZ-EF-SWL	0-30 MHz	45'	Receive Only	**$74.99**
PEZ-EF-6	6	114'	100W	**$62.99**
PEZ-EF-10	10	16' 7"	100W SSB/CW, 25W AM/DIG	**$63.99**
PEZ-EF-10H	10	16' 7"	300W SSB/CW, 150W AM/DIG	**$74.99**
PEZ-EF-11	11	17' 6"	100W SSB/CW, 25W AM/DIG	**$66.99**
PEZ-EF-17	17	25' 6"	100W SSB/CW, 25W AM/DIG	**$69.99**
PEZ-EF-17H	17	25' 6"	300W SSB/CW, 150W AM/DIG	**$77.99**
PEZ-EF-20	20	33'	100W SSB/CW, 25W AM/DIG	**$69.99**
PEZ-EF-20H	20	33'	300W SSB/CW, 150W AM/DIG	**$79.99**
PEZ-EF-30	30	46'	200W	**$78.99**
PEZ-EF-40	40	65' 6"	200W	**$83.99**
PEZ-EF-60	60	88'	100W	**$89.99**
PEZ-EF-80	80	135'	100W	**$99.99**
PEZ-EF-40-10-KW	40/20/15/10	64'	1 kW ICAS	**$169.95**
PEZ-EF-8010-JRKW	80/40/20/15/10	74'	1 kW ICAS	**$189.95**
PEZ-EF-ALLBANDKW	80-10	132' 8"	1 kW SSB/CW, 250W AM/DIG	**$189.95**

⚠ **WARNING:** For Proposition 65 information, see p. 3

Portable Wire Antennas & Accessories

PACKTENNA Portable HF Antenna System

New!



These compact, lightweight, and trail-ready HF antenna systems make an ideal solution for outdoor activations. The PackTenna board features well-designed support and mounting options, including wire retention holes to prevent unraveling during transport; mounting holes for paracord or bungee cord; banana jacks for connecting wire elements, ground radials, or counterpoise; and an S-clip for strain relief and easy adjustments of wire length. Antennas are power rated at 100W SSB/CW, 50W Digital. Choose from these options:

20/10 End-Fed Half-Wave Antenna

The EFHW2010 comes with an integrated wire winder, 50:1 matching transformer, and 32.9' of 26 AWG copper-clad steel wire combined into a rugged unit. It uses the matching transformer to convert the high impedance (3,000-5,000 Ω) of a half-wave wire to 50 Ω, eliminating the need for a tuner on resonant bands. Operators can also enjoy 40M coverage with optional coil and wire. The Mini Inline RF Feedline Choke is recommended for use above 10W.

Mini End-Fed Random Wire Antenna

This HF multiband (wire is cut to fit band needs) antenna combines a 9:1 UNUN, wire winder, and antenna wire in a compact unit that is quick to set up, take down, and toss into a backpack. The antenna comes with 29' of 26 AWG wire with a "silky" jacket to minimize wire tangle. This antenna requires a wide range antenna tuner.

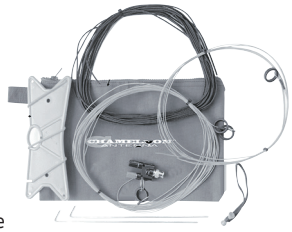
PAK-101	EFHW2010 20/10M End-Fed Half-Wave Antenna	**$115.00**
PAK-102	Mini End-Fed Random Wire Antenna	**$110.00**
PAK-103	Mini Inline RF Feedline Choke, 100W Max. Power Rating	**$75.00**

Coaxial Cable Assemblies

PAK-121	RG-316, Right Angle BNC Male, 3'	**$19.00**
PAK-122	RG-316, Right Angle BNC Male to Straight BNC Mail, 20'	**$28.00**
PAK-123	LMR-195, Straight BNC Male	**$28.00**

CHAMELEON ANTENNA

SOTA Activation Zone Model Portable HF Antennas



CHA-SOTA-AZ-1

Designed to meet the often demanding conditions of SOTA (Summits on the Air) adventures and other extreme outdoor activations, these two easy-to-deploy portable HF antennas are built to get the job done. The AZ-1 is an end-fed, non-resonant antenna covering 60-10M. Easily transportable up your favorite summit at 10 oz., the AZ-1 comes with BNC end connector, 42' antenna wire, 8' counterpoise wire, 40' micro-paracord, two tent stakes, line winder, and Bongo Tie. The AZ-2 is a portable linked dipole covering 40/30/20M and weighing 1.5 lbs. Supporting both localized NVIS and DX communication, it comes with 66' antenna wire with band links, BNC center connector, 50' micro-paracord, three tent stakes, three line winders, Bongo Tie, and carrying pouch. Both antennas are power rated at 100W SSB/50W CW and Digital. You can also purchase the AZ-2 as a package with a 50' DX Engineering High-Visibility Coaxial Cable (orange) assembly with BNC male connectors.

CHA-SOTA-AZ-1	SOTA End-Fed Non-Resonant Antenna, 60-10M	**$146.99**
CHA-SOTA-AZ-2	SOTA Linked Dipole, 40/30/20M	**$208.99**
DXE-CHAAZ-8XVB50	SOTA Linked Dipole AZ-2 w/ 50' Coaxial Cable Assembly, BNC Male	**$284.16**

BUCKMASTER INTERNATIONAL, LLC

Multi-Band Off-Center Fed Dipole HF Antennas



BMT-DX-OCF

Buckmaster OCF Multi-Band HF Antennas offer exceptional performance with anvil-like reliability. The efficient off-center fed dipole design, and high-quality components, deliver years of trouble-free operating.

The permanently sealed center insulator houses either a 300 or 3,000 watt potted balun, secured by a 1/4 inch stainless steel eyebolt. Each antenna is fully assembled. DX Engineering carries the support rope and coaxial cable you need to complete your installation.

Part Number	Bands	Wire Length	Power Rating (watts)	Price
BMT-DX-OCF-40	40/20/10/6	68'	300	**$276.00**
BMT-DX-OCF	80/75/40/20/17/12/10/6	135'	300	**$319.00**
BMT-DX-OCF-160	160/80/75/40/20/17/12/10/6	270'	300	**$422.00**
BMT-DX-OCF-HP40	40/20/10/6	68'	3,000	**$375.00**
BMT-DX-OCF-HP	80/75/40/20/17/12/10/6	135'	3,000	**$429.00**
BMT-DX-OCF-HP160	160/80/75/40/20/17/12/10/6	270'	3,000	**$544.00**

In-Stock Parts Typically Ship The Same Day.

End-Fed Half-Wave 40-10M Spool-Style Portable Wire Antenna

SPOOLTENNA™

New!



This compact and lightweight antenna makes a great addition to your POTA, SOTA, and Field Day activations. Its innovative spool design ensures rapid deployment and teardown, providing a worry-free operating experience that doesn't compromise performance. The antenna's spool delivers easy winding and unwinding, allowing you to spend more time on the air and less time dealing with tangled wires. Simply place a screwdriver, pen, or whatever you have handy in the center hole of the antenna to act as an axle. As you hold the axle, walk toward your operating location, letting the spool unwind as you go. Plus, take advantage of low SWR on all supported bands with no antenna tuner required. Features include:

- 65' 20 AWG tinned copper wire
- 100W SSB/50W CW and Digital power handling
- Winding knob makes setup and teardown a breeze
- 4mm banana jack provides quick connection/disconnection of radiating element
- 10mm mounting holes on the face and back side provide flexible mounting or hanging options
- Strain relief loop on both ends of the radiating element
- Right-angle BNC connector aligns with direction of the feedline Supplied with BongoTies tie wraps for retaining wire on the spool
- Comes with assembled unit, field testing report for that serial number, owner's manual, and Quick Start guide

OOL-PARKEFHW4010	End-Fed Half-Wave 40-10M Spool-Style Antenna	**$149.00**
OOL-SSP-120	Empty SpareSpool Winder w/BongoTie	**$32.00**
OOL-REPL-WIRE	Replacement Wire, 65'	**$32.00**
OOL-HI-VIZ-WIRE	High-Viz Orange Replacement Wire, 65'	**$59.00**

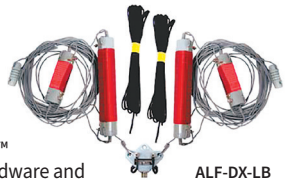
DX Engineering Nomad Mast/Spooltenna Portable Packages

Packages include Spooltenna 40-10M EFHW, 20' of RG316 coaxial cable, winder, choke, DX Engineering Nomad Portable Telescopic Mast (red or black), rope, and tent pegs.

DXE-STEF4010-1B	DX Engineering Black Nomad Mast/ Spooltenna Package	**$486.94**
DXE-STEF4010-1R	DX Engineering Red Nomad Mast/ Spooltenna Package	**$486.94**

ALPHA DELTA Radio Communications

Multi-Band Dipole Wire Antennas



ALF-DX-LB

These complete resonant antennas include a DELTA-C center insulator and end insulators, ISO-RES coils, and separate wires for different bands. All wires are attached to the center insulator. An SEP ARC-PLUG™ static electricity protector is built in. Stainless steel hardware and 12-gauge solid copper wire ensure long life. Antennas are shipped assembled except for the DX-LBPLUS. No antenna tuners are necessary, except for 15M band with DX-CC.

ALF-DX-CC	80-10 Meter Parallel Dipole, 82'	**$209.99**
ALF-DX-DD	80-40 Meter Single Dipole, 82'	**$179.99**
ALF-DX-EE	40-10 Meter Parallel Dipole, 40'	**$195.99**
ALF-DX-LB	160-80-40 Meter Single Wire Dipole, 100'	**$209.99**
ALF-DX-LBPLUS	160-10 Meter Parallel Dipole, 100', Not Fully Assembled	**$245.99**

ALPHA DELTA Radio Communications

Single Band Full Size Dipole Antennas



ALF-DX-80

To get on the 80, 40 and 20 meter bands quickly, look to these antennas from Alpha Delta. They're pre-tuned for the lowest indicated frequency, but you can trim them to tune for any frequency from 14-30 MHz. They come fully assembled and include a DELTA-C center insulator with built-in SEP ARC-PLUG™ static electricity protector, high strength copper wire and stainless steel hardware. They will easily handle full legal power.

ALF-DX-80	Single Band Full Size Dipole, 80M, 134'	**$119.99**
ALF-DX-40	Single Band Full Size Dipole, 40M, 67'	**$99.99**
ALF-DX-20	Single Band Full Size Dipole, 20M, 34'	**$90.99**

ALPHA DELTA Radio Communications

Antenna Insulator Kit with Static Discharge



This kit contains one center insulator, antenna connection hardware, one ARC-PLUG static electricity protector and two end insulators. The antenna hardware is molded of Deltalloy™, an extremely tough and durable plastic specifically blended to withstand sunlight and extreme weather conditions. An SO-239 connector is provided for direct connection to your coaxial cable. A ladder line balanced feedline may be connected directly to the dipole wire ends.

ALF-DELTA-C	Antenna Insulator Kit	**$42.99**
ALF-DELTA-CIN	Replacement End Insulator	**$4.99**
ALF-SEP	Replacement ARC-PLUG Protector	**$19.99**

⚠ WARNING: For Proposition 65 information, see p. 3

kelemen Antennas



Wire Antennas

DX Engineering is excited to be the exclusive North American retailer of high-performance, finely constructed Kelemen Wire Antennas from WiMo. Choose from 50 models of high-efficiency, wide-bandwidth monoband or multi-band antennas in many unique combinations of supported HF bands (160 through 10M), lengths, and power ratings (400W, 1,000W, or 2,000W PEP SSB and CW at resonance). These lightweight antennas come pre-assembled and ready to operate, with balun enclosed in a weatherproof polycarbonate case, clear PVC-insulated stranded copper wire, stainless wire clamps, and insulators. Featuring special traps made of PTFE-insulated coax (much lighter than conventional traps) with high Q and low losses, these weatherproofed, temperature-resistant, and shortened antennas are great for regular use or when there's not enough space for a full-size dipole. They can be mounted horizontally or in an inverted-V configuration with a required central support.

Choose from a range of options, from the 40/20/15/10M Single Trap 400W Wire Ground Plane model (KEL-11505-4251, $189.99) to the 80/40/20/15/10M 2kW Trap Dipole model (KEL-11500-84251H, $549.99). **Enter "Kelemen" at DXEngineering.com for the full lineup.**

CHAMELEON ANTENNA

GO Portable

EMCOMM-II Version 2 and EMCOMM-III Portable HF Antennas



CHA-EMCOMM-II



CHA-EMCOMM-III-B

Specially designed for backup emergency HF system or permanent installation, Version 2 of the rugged EMCOMM-II wire antenna delivers excellent 160-6M coverage and handles 500W SSB, 250W CW and 100W Digital. Add your external tuner and it makes a perfect backup or portable HF antenna for your station. The antenna comes with 60' of antenna wire and a waterproof matching box. Designed for short- to long-range portable and man-pack HF communications, EMCOMM-III antennas are a great solution for backpacking and camping, as well as military, Civil Air Patrol, ARES, and RACES applications. Deployable in less than 15 minutes using almost any available support (no masts or guying required), they can be configured for NVIS communication and will support frequency-hopping and spread-spectrum modes/operations. The 160-10M version comes with matching transformer, a 73' copper-clad KEVLAR PTFE antenna wire on a line winder, and a 25' counterpoise. The 80-10M version comes with matching transformer and 130' of wire. An antenna tuner or coupler may be required.

CHA-EMCOMM-II-V2	Version 2, EMCOMM II Portable HF Antenna	**$160.00**
CHA-EMCOMM-III-B	80-10M 130' Base Antenna, 500W SSB or 250W CW	**$195.00**
CHA-EMCOMM-III-P	160-10M Portable Antenna, 100W SSB or 50W CW	**$190.00**

MOONRAKER

G5RV & End-Fed Long Wire Multiband Antennas



Made from either enameled copper or PVC-coated flex weave wire, these 500W G5RV antennas are an economical and proven option for HF operations when paired with an external tuner. Antennas feature a high-quality SO-239 molded at the end of 300 Ω ladder line (15.1' for copper wire models, 30.18' for flex weave).

MKR-11-400	G5RV, 80-10M, 1.5mm Enameled Copper Wire, 101.71'	**$86.99**
MKR-11-408	G5RV, 40-10M, 1.5mm Enameled Copper Wire, 50.85'	**$71.99**
MKR-11-428	G5RV, 80-10M, 3.5mm Flex Weave Wire, 101.71'	**$150.99**
MKR-11-432	G5RV, 40-10M, 3.5mm Flex Weave Wire, 50.85'	**$134.99**

Multiband End-Fed Long Wire LWHF Antennas

Featuring a 9:1 UNUN, 400W power rating, WARC band coverage, and SO-239 connector, Moonraker LWHF antennas are available in three versions to suit your HF interests and space constraints. Typically, a perfect match can be obtained when these antennas are used with an external tuner. All models include a ground lug and wire terminal for an earth ground.

MKR-11-492	End-Fed Long Wire, 40-6M, 32.81'	**$142.99**
MKR-11-494	End-Fed Long Wire, 80-6M, 65.62'	**$160.99**
MKR-11-496	End-Fed Long Wire, 160-6M, 136.81'	**$190.99**

COMET

HF Portable Ground Radial Kit



Here's an easy way to realize better results on Field Day or during your POTA, SOTA, and other outdoor activations. Comet's robust counterpoise radial wire set for portable HF vertical antennas gives you what you need for real QRP excitement on the air. It comes with six 16.4' 16 AWG radials assembled into a single 1/4" ring terminal for easy deployment. Simply add these to the portable vertical antenna bracket or counterpoise screw at the base of the antenna or bracket and fan them out for increased efficiency, greater range, and more contacts.

CMA-CGW-560	HF Portable Ground Radial Kit	**$34.49**

Join our crew on Facebook for news and exclusive deals!

DX ENGINEERING

Low Power Portable Dipole & Winder Kits, QRP Band Pass Filters & More

GO Portable



New!

These kits provide the parts for a fun DIY build of a lightweight resonant HF antenna designed for fast portable operations on 40 meters or higher. Making your own single- or dual-band linked dipole is easy. Once it's built, you can repeatedly and quickly unwind the dipole, install it for POTA or other activities, make contacts on the air, wind it up when you're done, and take it home for the next adventure. Here's what you receive:

- Center insulator with a 1:1 low-power balun, 50 Ω (max. RF power 250W PEP SSB, 100W CW or Digital); BNC female right-angle connector pre-installed
- 24-gauge stranded hi-visibility yellow insulated wire; 80' (two 40' sections)
- 4 link insulators for supporting the wire; they may be used to "break up" the dipole into multiband sections
- 4 alligator clips (two per link); one link per side makes a two-band dipole
- 4 clip hooks for user-supplied rope
- Snap hook to support the center insulator balun on a Nomad Portable Mast
- 3 easy-to-hold DX Engineering red winders
- BongoTies (available in a variety of colors) to secure wires onto winders

Enter "DXE-LPB1" at DXEngineering.com for details. Kits are available for $84.99.

DXE-LINK-KIT	Includes 2 Link Insulators, 4 Alligator Clips	**$8.99**
DXE-LPB-1-1-BNC	1:1 Low Power Feedline Choke, 50 Ω, 1.8-54 MHz	**$76.00**
DXE-LPB1-B	1:1 Low Power Balun Center Insulator, 50 Ω, 1.8-54 MHz	**$49.99**

Winders & Tie Wrap Combos

Keep your shack organized! These packages come with four durable and lightweight winders (8" x 4") made from FR4 PCB material. You also receive a pack of 10 BongoTies multipurpose tie wraps in your choice of colors. **Combos are available for $24.99.**

QRP Band Pass Filters

Get the band filtering you need for low-power activations with these inline devices. Filters have a power rating of 20W SSB/5W Digital and include a BNC connector.

DXE-BP10-QRP	10M QRP Band Pass Filter	**$69.99**
DXE-BP15-QRP	15M QRP Band Pass Filter	**$69.99**
DXE-BP20-QRP	20M QRP Band Pass Filter	**$69.99**
DXE-BP40-QRP	40M QRP Band Pass Filter	**$69.99**
DXE-BP80-QRP	80M QRP Band Pass Filter	**$69.99**

QRP Baluns, UNUNs & High Pass Filter

Baluns and UNUN come with 3 hooks, 2 insulators for 22 AWG wire, and BNC connector.

DXE-TWIG-1-1	1:1 QRP Choke Balun, 25W SSB/10W CW/5W Digital	**$49.99**
DXE-TWIG-4-1C	4:1 QRP Choke Balun, 25W SSB/10W CW/5W Digital	**$69.99**
DXE-TWIG-9-1	9:1 QRP UNUN, 25W SSB/10W CW/5W Digital	**$49.99**
DXE-TWIG-BCFIL	QRP BC Interference 80M High Pass Filter for HF Portable;	**$49.99**
DXE-TWIG-EFHW	QRP EFHW Antenna Feedpoint with 49:1 UNUN	**$49.99**

VHF/UHF Portable Antenna Mount

This 50W-maximum mount includes an SO-239 feedline/antenna connection and fits the DX Engineering Nomad and other collapsible fiberglass masts.

DXE-MOBILEPORT-U	VHF/UHF Portable Antenna Mount	**$29.99**

DualDuck Portable HT/Mobile VHF/UHF Antenna Mount

This mount lets you elevate VHF/UHF handheld or mobile transceiver antennas for improved signal performance. Rated to handle 20W of power, it supports two identical "rubber duck" antennas, one acting as a radiator and the other as a counterpoise. A bottom-mounted BNC connector allows for feedline attachment.

DXE-DUALDUCK-S-B	DualDuck Antenna Mount	**$39.99**

End-Fed Wire Antennas

momo BEAM high-performance durable ANTENNAS



New!

MOO-EF1080C-100W

These make a great solution for operators seeking versatility and performance. Featuring stainless steel hardware and UV-resistant materials, they can be deployed for fixed or portable operations in horizontal, inverted-L, or sloper configurations. At their core is a coated copper wire radiator paired with a 49:1 impedance transformer, ensuring efficient 50 Ω operation.

System Part Number	Band(s)	Power Handling	Length	Price
MOO-EF1040-100W	40/20/15/10	100W PEP/20W Digital	65.6'	**$159.99**
MOO-EF1040-300W	40/20/15/10	300W PEP/100W Digital	65.6'	**$198.99**
MOO-EF1040-1000W	40/20/15/10	1,000W PEP/250W Digital	65.6'	**$313.99**
MOO-EF1080C-100W	80/40/20/15/10	100W PEP/20W Digital	76'	**$238.99**
MOO-EF1080C-300W	80/40/20/15/10	300W PEP/100W Digital	76'	**$278.99**
MOO-EF1080C-1000W	80/40/20/15/10	1,000W PEP/250W Digital	76'	**$399.99**

Ciro Mazzoni Radiocomunicazioni



Automatic Magnetic Loop Antennas

Own a stealthy loop antenna that can really handle the power. DX Engineering is proud to offer popular and proven "Loop Antennas by I3VHF"—the BABY Loop model (6.6-29.8 MHz) and MIDI Loop (3.5-14.5 MHz), both manufactured to the highest standards by Italy's Ciro Mazzoni. They're compact, quiet, easy-to-install and ideal when you're dealing with limited space but still want higher-power handling compared to other transmitting loops. Perfect for stealth HOA, these solidly constructed aluminum antennas include the ATU 2.0 Automatic Tuning Unit to resonate the loop throughout their wide frequency ranges: 80 through 20 meters for the MIDI Loop, 40 through 10 meters with the BABY, without any coverage gap. The updated ATU 2.0 now features a black background display with amber characters. The ICOM-CAT-CBL interface cable for the ATU 2.0 unit in BABY, MIDI, and STEALTH loop antennas connects Icom transceivers equipped with computer ports for frequency specific automatic tuning. Other brand radios are interfaced to the ATU 2.0 with RS-232 cables. **For complete details, enter "MZZ" at DXEngineering.com.**

MZZ-BABY-A	Loop Antenna, 6.6-29.8 MHz, 39.8" Diameter, with ATU 2.0	**$2,335.99**
MZZ-MIDI-A	Loop Antenna, 3.5-14.5 MHz, 78.7" Diameter, with ATU 2.0	**$2,479.99**
MZZ-BABY-TRIPOD	Tripod Stand for BABY Loop by I3VHF	**$189.99**

Interface Cables

Interface cables for the ATU 2.0 are available for Icom, Yaesu, Kenwood, Elecraft, Flex, and Elad transceivers. **Pricing from $49.99 to $99.99.**

Ciro Mazzoni Radiocomunicazioni



STEALTH Loop Antenna

From the loop antenna experts at Italy's Ciro Mazzoni comes the low-profile STEALTH Loop Antenna by I3VHF. Featuring an unusual shape resembling a piece of abstract art, the 6.6-29.8 MHz continuous coverage STEALTH Loop measures only 54" x 19.6" x 10.2", making it ideal for keeping out of sight while letting you work the 40 to 10 meter bands. Made from strong, powdercoated aluminum alloy, the antenna features a typical SWR of 1.3:1; 6 dB front to back ratio; 25 dB front to side ratio; 50 Ω input impedance; and 125 watt power rating. It includes the ATU 2.0 Automatic Tuning Unit to resonate the loop throughout its wide frequency range. The ATU 2.0 now features a black background display with amber characters. Weighing 15.4 pounds (without mounting brackets), the STEALTH Loop is an antenna built for high performance, without drawing the attention of your neighbors or HOA.

MZZ-STEALTH-A	6.6-29.8 MHz Loop Antenna, with ATU 2.0	**$1,999.99**
MZZ-STEALTH-CAP	Heavy-Duty Cast Acrylic STEALTH Capacitor Cover	**$189.99**

Horizon Loop Antennas

Bushcomm HF Antenna Systems



Capitalizing on the popularity of HF magnetic loops, Bushcomm's two Horizon Loops are a great solution for HF operation in a limited space. Whereas many popular magnetic loop models are receive only, these antennas actually allow tight-band transmit capability. Reception is characteristically quiet and transmission is remarkably efficient. They feature a durable, yet lightweight, aluminum loop and come with installation hardware. Horizon Loops handle 125 watts PEP.

BCM-LOOP-20	Horizon Loop, 20-10M, 29" OD	**$399.99**
BCM-LOOP-40	Horizon Loop, 40-10M, 54" OD	**$429.99**

CHAMELEON ANTENNA



MPAS Portable HF Backpack Antenna Systems

This system covers HF/6M and can handle up to 100W SSB or 50W CW. It includes the Hybrid-Micro matching unit and portable base, 113" collapsible whip, 105.5" antenna extension, 50' coax with RFI choke, in-ground antenna mount, backpack, stainless steel hardware, and 75' of antenna wire/25' of counterpoise wire to support vertical, horizontal, sloper, inverted vee and L, NVIS, and other configurations. The MPAS 2.0 with Hybrid-Mini matching unit can handle up to 500W SSB or 250W CW.

CHA-MPAS-2-0	HF Backpack Antenna, Hybrid-Micro Matching Unit	**$600.00**
CHA-MPAS-2-MINI	HF Backpack Antenna, Hybrid-Mini Matching Unit	**$625.00**

CHELEGANCE JNCRadio

GO Portable



NCE-CH0010003





Portable Vertical/Dipole Antennas and Active Indoor Shortwave Loop Antenna

Chelegance carries a nice selection of high-performance and sturdy portable antennas for your vacations, POTA, SOTA, IOTA, and other outdoor operations. The JPC-12 Portable HF Vertical Antenna (40 through 6 meter) is built for easy assembly and excellent performance. You receive a special antenna base with SO-239, ground stake, counterpoise wire set, manual tuning multi-band coil, heavy-duty aluminum tubes with threaded studs, stainless telescopic whip, and carrying bag. With a manually tuned center-mount coil and whip adjustments, expect good results from 7 MHz and up. It handles up to 100W and can be quickly put together to connect with a user-supplied coax for use on the go.

NCE-CH0010003	JPC-12 Portable HF Vertical Antenna	**$276.00**

JPC-7 Portable HF Dipole Antenna

This easy-to-deploy 100W power rated antenna covering 40 through 6 meters includes special antenna base, a 1:1 choke balun with SO-239 and connection leads, rotating arm bracket kit, brass connector, tripod adapter, manual tuning multi-band coils, heavy-duty aluminum arms, and two 98.4" stainless telescopic whips. The dipole kit comes packed into the provided 14.5" x 9" carrying bag but extends out to over 21.5' overall. Requires user-supplied tripod/mast and coaxial cable for portable use.

NCE-CH0010004	JPC-7 Portable HF Dipole Antenna	**$429.00**

MC-599 Portable Shortwave Dipole V Antenna

The MC-599 boasts versatile use with 40-6M coverage, 200W PEP power capacity, premium wire elements for top performance on 40M, compact dimensions for easy portability, and marking system on both telescopic whips for effortless tuning. With only five parts, assembly can be accomplished in about two minutes.

NCE-CH0010012	40-6M Portable Shortwave Dipole Antenna	**$459.00**
NCE-CH0030029-O2	Tripod and Mast for MC-599/JPC-7	**$144.00**

MC-750 Portable HF Vertical Antenna

Covering 40 through 6 meters and handling up to 100W, this no-tools-required antenna system is easy to set up and disassemble. Its antenna base features a built-in ground spike, female SO-239 connector and jacks for up to four preassembled, 11.48' counterpoise radials (included). The antenna functions as a quarter-wave vertical ground plane antenna for the 14-50 MHz frequency range while using the included 17' telescoping whip. Also included is a loading coil for operating in the 7 MHz/40M band. The kit comes with a 1.64' extension, cable winder, and carrying bag.

NCE-CH0010009	MC-750 Portable HF Vertical Antenna	**$375.00**
NCE-CH0030002	Tripod for MC-750/JPC-12/Other Antennas	**$60.00**
NCE-CH0010009-P1	80M Tuning Coil for MC-750	**$99.00**

KC-4 4-Band HF Vertical Base Antenna

Covering 40/20/15/10M, the KC-4 provides seamless multiband operation with automatic band switching. Features include power handling up to 1,000W PEP (400W SSB/200W CW/100W Digital); top-loading design for enhanced efficiency; self-supporting vertical radiator that eliminates the need for ground radials; aluminum construction; <1.5:1 (after final tuning); easy installation; and more.

NCE-CH0010013	KC-4 40/20/15/10M Vertical, 25.6'	**$525.00**

Deshibo GA-450 Active Indoor Shortwave Loop Antenna



Boasting HF receive from 2.3-30 MHz (SW) and AM Broadcast receive from 522-1710 kHz (MW), this 8" diameter mini-loop antenna is an excellent addition whether you're at home or out of the shack in a camper or RV. It features a control base and BNC loop connector, gain control, USB-C charging port, internal battery, and female BNC output. You also receive male BNC-to-BNC and BNC to 3.5mm adapter cables for connection to your receiver and a USB-A to USB-C cable to connect charging power from a laptop (AC adapter not included).

NCE-CH0030010	Deshibo GA-450 Active Indoor Shortwave Loop Antenna	**$147.00**

Tripod Adapter

CHAMELEON ANTENNA



This innovative adapter converts a 5/8"-11 female threaded tripod to a 3/8"-24 female thread, making it compatible with a wide range of antennas and surveyor-type tripods. The aluminum, weatherproof adapter is equipped with lateral holes for fast and convenient attachment of radials or counterpoises, including compatibility with the CHA DIY RADIAL KIT and similar products from other manufacturers.

CHA-SURVEYOR-ADT	Tripod Adapter, 5/8"-11 Female to 3/8"-24 Female	**$70.00**

FREE standard shipping on qualifying orders! See page 68 for details and exceptions.

⚠ WARNING: For Proposition 65 information, see p. 3


CHA-MPAS-LITE


CHA-MCC-PRV-POTA

MPAS Lite Modular Portable Antenna Systems

The "little brother" of the MPAS-2-0, the MPAS LITE provides HF and 6 meter coverage (100W SSB or 50W CW) and deployment flexibility. It includes Hybrid-Micro matching unit and portable base; 60' of antenna wire; 17' collapsible stainless steel whip; 50' coax with RFI choke; spike mount (for attaching the Hybrid HF antenna base and a counterpoise); and stainless steel hardware. The MPAS Lite with Hybrid-Mini Modular Antenna System can handle up to 500W SSB and 250W CW.

CHA-MPAS-LITE Portable Antenna System, Hybrid-Micro Matching Unit **$360.00**
CHA-MPASMINILITE Portable Antenna System, Hybrid-Mini Matching Unit..... **$385.00**

Universal Guying System

This portable system is made of non-conductive guy wire, corrosion-resistant stainless steel anchors, and heavy-duty nail pegs. System includes three winder assemblies; three lengths of 25' of 3mm-P Mastrant cord; nail plugs; line tighteners; and guy ring.

CHA-UGS Universal Guying System **$65.00**

CHA-LEFS-8010 Lightweight End-Fed Sloper Antenna

This minimalist 80-10M no-tuner antenna is made for outdoor operators who don't want extra bulk. It features a line winder with integral impedance matching network transformer, 20 gauge PTFE antenna KEVLAR wire, and 50' of Micro 90 paracord.

CHA-LEFS-8010 End-Fed Sloper Antenna..... **$225.00**

CHA-LEFS-4010 End-Fed Half-Wave Sloper Antennas

Elevate your portable ops with these 40/20/15/10M no-tuner antennas (30/17/12M is possible with a tuner). They come with 65' of 20 AWG wire, built-in winder with integral 49:1 impedance matching transformer, and carrying pouch.

CHA-LEFS-4010 End-Fed Half-Wave Sloper Antenna **$175.00**
CHA-LEFS4010-316 End-Fed Half-Wave Sloper w/25' of RG-316 Cable..... **$250.00**

Multi-Configuration Coil and PRV Antenna Systems

This replacement coil provides base-loaded inductance for the 2-40M PRV-SOTA and PRV-POTA Portable Resonant Vertical (PRV) Antenna Systems. The coil (500W SSB, 300W CW, 200W Digital) is also compatible with the MPAS-2-0/MPAS LITE. PRV systems come with 58" telescoping whip, ground spike mount, puck hub, four 12.5' radial wires with winders, counterpoise wire, camera tripod adapter, and 12' of RG-58 coax with RF choke.

CHA-MCC-COIL Multi-Configuration Coil..... **$350.00**
CHA-MCC-PRV-POTA 2-40M PRV Antenna System, Heavy Kit; **$674.00**
CHA-MCC-PRV-SOTA 2-40M PRV Antenna System, Light Kit... **$569.00**

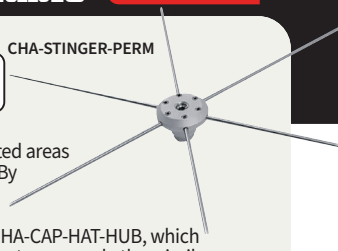
CHA Hub and Wire Kit

For use with the Chameleon Tactical Delta Loop (TDL) antenna, this kit comes with 25' of copper-clad Kevlar PTFE wire and hub for the TDL.

CHA-HUB-KIT Hub and Wire Kit for CHA TDL..... **$122.00**


CHA-HUB-KIT

CHAMELEON ANTENNA™ GO Portable


CHA-STINGER-PERM

Stinger Rigid Radials

This kit creates an antenna ground plane in space-restricted areas where full-size wire counterpoise radials are not feasible. By utilizing six durable 48" stainless steel elements, the kit provides a robust and easy-to-install alternative to traditional radial systems. Kit comes with hardware and CHA-CAP-HAT-HUB, which makes the radial kit compatible with Chameleon vertical antennas and other similar 3/8"-24 threaded verticals.

CHA-STINGER-PERM Stinger Vertical Antenna Radial Kit..... **$95.00**
CHA-STINGERS Stinger Rigid Radial Elements, Set of 6 ..... **$45.00**

Four Pack of Antenna Wire Winders

These plastic winders (green, orange, tan, or yellow) make antenna deployment/tear-down simple.



CHA-4PKWINDERSGR Winders, Pack of 4, Green..... **$27.00**
CHA-4PKWINDERSOR Winders, Pack of 4, Orange..... **$27.00**
CHA-4PKWINDERSTN Winders, Pack of 4, Tan..... **$27.00**
CHA-4PKWINDERSYL Winders, Pack of 4, Yellow **$27.00**

Counterpoise Wire Kits

Ideal for creating ground plane radials, these kits (green, orange, tan, or yellow) include four lengths of 25' wire terminated with a 3/8" ring that attaches to the base of the Hybrid MICRO or MINI, Jaw Mount, or other vertical base. Includes plastic wire winders and tent stakes. **Enter "CHA Counterpoise" at DXEngineering.com.**

Stainless Steel Telescopic Whip Antennas

The SS17 10-section whip extends to 17'. It can operate a full quarter wave from 6M-20M with manual adjustment without loading coil, or it can be combined with the CHA MPAS 2.0 as main radiator. Comes with 3/8"-24 base mounting. The 1,000W PEP SS25 has 14 sections and extends to 25'. Both of these models collapse to 25" inches.

CHA-SS17 Telescopic Whip Antenna, 17'..... **$70.00**
CHA-SS25 Telescopic Whip Antenna, 25'..... **$100.00**
CHA-SS58 Telescopic Whip Antenna, 58"..... **$55.00**

Spike Mount

Easily "plant" mount into the ground for your portable antenna. These stainless steel mounting solutions from Chameleon even feature a thumbscrew for using a counterpoise system. Please note that it requires an antenna with a separate feedpoint.



CHA-SPIKE-MOUNT 3/8"-24 Stud Spike Mount, 15"..... **$65.00**
CHA-SPIKEMOUNT21 3/8"-24 Stud Spike Mount, 21" **$70.00**

Jaw Mount

Here's a quick, easy way to rapidly deploy your vertical mast. It's got a 3/8"-24 threaded mount on one end and a set of steel jaws on the other. The jaws will clamp securely on 3/4" to 2" OD tubing. The mount works in a vertical or horizontal orientation and will handle 250 watts PEP.



CHA-JAWMOUNT Jaw Mount..... **$66.00**

α ALPHA® ANTENNA

Alpha Antenna

DX Engineering is pleased to now carry a range of HF base, HF and VHF/UHF mobile, and portable antennas from Alpha Antenna, including precision-engineered verticals, Yagi LPDA beams, magnetic loops, end-feds, and dipoles. We've listed just a few models here, including the tune-free Base Vertical Antenna (HFLTEBSEANT), which comes with stainless steel 17.9' telescopic vertical element, outdoor housing with Auto Match, mast mount, 25.3' horizontal active element, and 8' grounded counterpoise element. Also choose from the 160-10M EmComm End-Fed JPole Sr, which enables a tuner to achieve a near perfect SWR, with limited efficiency while using a tuner on 160M; and HexTenna Deluxe resonant legal-limit rigid dipole and vertical antenna. The UV6 (UV6VERTANT) is a tri-band antenna that utilizes a linear phase shift design to couple the different frequency band sections together. The Portable HF MIL EmComm Deluxe Antenna (MILEMCOMMDLX) is a wideband antenna system for DX, NVIS, and EmComm. It includes a 25' NVIS wire element, 8' grounded counterpoise, 9.5' whip, and aluminum tripod with carrier.

Enter "ALP Antenna" at DXEngineering.com for more details and other options.



ALP-HEXTENNADIX


ALP-HEXTENNABSC


ALP-HF-JPOLE-JR


ALP-HFLTEBSEANT

ALP-HFLTEBSEANT	Base Vertical, 80-10M, 17.9', 250W PEP SSB/125W CW/25W Digital	**$299.99**
ALP-HF-JPOLE-SR	Base End-Fed, 160-10M, 60', 250W PEP SSB/125W CW/25W Digital	**$219.00**
ALP-HF-JPOLE-JR	Base End-Fed, 80-6M, 34', 250W PEP SSB/125W CW/25W Digital	**$199.00**
ALP-EMCOMMLOOP	Portable MagLoop, Tunable from 7-21.450 MHz plus 2M & 440MHz, 100W PEP SSB/50W CW/25W Digital	**$399.00**
ALP-BASEMAGLOOP	Base MagLoop, 40-10M, 3' Wide Loop, 100W PEP SSB/50W CW/25W Digital	**$1,000.00**
ALP-VERTITENNA	Portable, 220/440 MHz and 2-20M, 17.9' Telescopic Vertical Element, 1,200W PEP SSB/600W CW/300W Digital	**$229.00**
ALP-HEXTENNADIX	HexTenna Deluxe Portable, 40-6M/2M/1.25M/70cm, 1,500 SSB, w/ HD Tripod	**$600.00**
ALP-HEXTENNABSC	HexTenna Deluxe Portable, 40-6M/2M/1.25M/70cm, 1,500 SSB	**$400.00**
ALP-UV6VERTANT	Base/Portable 2M/70cm/6M, 150W	**$169.00**
ALP-MILEMCOMMDLX	Portable, 80-6M, 9.5' Whip, 250W PEP SSB/125W CW/25W Digital w/Tripod	**$519.00**
ALP-MILEMCOMMBSC	Portable, 80-6M, 9.5' Whip, 250W PEP SSB/125W CW/25W Digital	**$400.00**

To take advantage of our Beat-a-Price Guarantee, please Contact Us!

REZ ANTENNA SYSTEMS

New!



REZ-SCOUT-PDL



REZ-RNGR80GS2-G



REZ-RECN40GS2-BK



REZ-SCOUTGS2

Recon 40 Version II HF Portable Antenna Systems

REZ's Recon 40 II antennas (40-10M) are made for easy deployment and effective portable ops. Packages come with the rugged Recon 40 base-load tuning coil (500W SSB, 300W CW, 200W Digital, 50% duty cycle); heavy-duty 17' (23.25" collapsed) stainless steel stealth black telescoping whip; and Radial Kit with four pre-assembled 33' 18 AWG radials with banana plugs for quick connection to the coil base. This upgraded Version II includes radial ports drilled directly into the base, streamlining setup and improving reliability. The Recon 40 also comes with a premium water-resistant MOLLE backpack with enough room for Recon 40 components, a 100W rig, mic, key, battery, and laptop; and either a 17" ground spike for soft and medium soils or a ZPOD Tripod and tie-down loop for sandy or rocky locations.

REZ-RECN40GS2-BK	Recon 40 II, Black Backpack, Ground Spike	**$543.00**
REZ-RECN40GS2-G	Recon 40 II, Gray Backpack, Ground Spike	**$543.00**
REZ-RECN40GS2-OD	Recon 40 II, Olive Drab Green Backpack, Ground Spike	**$543.00**
REZ-RECON40GS2-T	Recon 40 II, Tan Backpack, Ground Spike	**$543.00**
REZ-RECN40PD2-BK	Recon 40 II, Black Backpack, Tripod	**$563.00**
REZ-RECN40PD2-G	Recon 40 II, Gray Backpack, Tripod	**$563.00**
REZ-RECN40PD2-OD	Recon 40 II, Olive Drab Green Backpack, Tripod	**$563.00**
REZ-RECN40PD2-T	Recon 40 II, Tan Backpack, Tripod	**$563.00**
REZ-REC40-II	Recon 40 II 40-10M Tuning Coil, Built-In Radial Ports	**$299.00**

Ranger 80 Version II HF Portable Antenna Systems

Another great choice for fun and effective POTA, SOTA, and EmComm activations, the Ranger 80 systems feature a rugged base-load tuning coil that allows for tuning from 80-15M with the included seven-section tapered military whip made from brass and stainless steel (9.3' extended, 17" collapsed). Operation on 12M and 10M requires the use of an optional telescoping whip (sold separately). Like the Recon 40 II, the radial ports of this upgraded version are integrated directly into the base for faster deployment. The coil also features improved weather resistance. The unique manual-tuning sliding coil collar features a large contact area for worry-free power handling (200W SSB, 100W Digital at 50% duty cycle). Kit contains components included in the Recon 40 II.

REZ-RNGR80GS2-BK	Ranger 80 II, Black Backpack, Ground Spike Mount	**$634.00**
REZ-RNGR80GS2-G	Ranger 80 II, Gray Backpack, Ground Spike Mount	**$634.00**
REZ-RNGR80GS2-OD	Ranger 80 II, Olive Drab Green Backpack, Ground Spike Mount	**$634.00**
REZ-RNGR80GS2-T	Ranger 80 II, Tan Backpack, Ground Spike Mount	**$634.00**
REZ-RNGR80PD2-BK	Ranger 80 II, Black Backpack, Tripod Mount	**$654.00**
REZ-RNGR80PD2-G	Ranger 80 II, Gray Backpack, Tripod Mount	**$654.00**
REZ-RNGR80PD2-OD	Ranger 80 II, Olive Drab Green Backpack, Tripod Mount	**$654.00**
REZ-RNGR80PD2-T	Ranger 80 II, Tan Backpack, Tripod Mount	**$654.00**
REZ-RNGR80-II	Recon 80 II 80-10M Tuning Coil, Built-In Radial Ports	**$375.00**

Scout II Vertical Antenna Systems

This versatile 20-6M option for easy portable operations features a patent-pending anti-rotation mounting port and a range of optional accessories, allowing for flexible deployment in multiple configurations:

- 1/4-wave vertical
- Coil-loaded vertical
- Wire dipole
- Rigid dipole
- Delta loop

GO Portable

It delivers power handling of 500W SSB/300W CW/200W Digital. The Scout kit includes Scout mounting base, 17" ground spike or tripod, 17' version II telescoping whip, and radial kit. The Scout base also includes integrated 4mm radial ports compatible with standard banana plugs. An included hoist ring allows for easy deployment of a wire dipole from a tree or other natural anchor. Kits come with a FlexPack antenna bag.





REZ-SCOUTPD2-KIT

REZ-SCOUTGS2	Scout II Vertical Antenna System, Ground Spike	**$279.00**
REZ-SCOUTGS2-KIT	Scout II Vertical Antenna System, Spike, FlexPack Bag	**$372.00**
REZ-SCOUTPD2	Scout II Antenna System, Tripod	**$299.00**
REZ-SCOUTPD2-KIT	Scout Antenna System, Tripod, FlexPack Bag	**$392.00**

Portable Delta Loop

REZ's Portable Delta Loop covers 40-6M with power handling of 500W PEP/300W CW/200W Digital. It comes with the Scout base, 25' antenna wire, winder, multi-mount adapter, two 17' whips, and ZPOD tripod.

REZ-SCOUT-PDL	Portable Delta Loop, 40-6M	**$435.00**

4-Band Scout Linked Dipole Kit

The Linked Dipole Kit supports up to four bands, covering frequencies as low as 7 MHz. The elements are not pre-cut, allowing you to select your desired bands. Kit includes 77' 18 AWG tinned copper wire, 12 Powerpole® connectors, wire winders, shrink tubes, plastic clips, ring terminals, and element insulators.

REZ-LDK	4-Band Linked Dipole Kit	**$65.00**



MOONRAKER

GO Portable

LMA-M Portable Telescopic Mast

If you're looking for a reliable and lightweight solution for VHF/UHF antennas or similar applications whether working a portable operation or for permanent installation, Moonraker's LMA-M Portable Telescopic Mast makes a solid choice. This mast features six sections that extend from a compact 5.5' to an impressive 26'. Constructed from aluminum, its diameter ranges from 2" at the base to 1" at the top. The LMA-M weighs only 8.8 lbs. for easy transport and setup. Guy rings included for additional support in windy conditions.

MKR-09-052	LMA-M 26' Portable Telescopic Mast	**$357.99**

MOONRAKER

New!

Heavy-Duty Antenna Mast Tripod

Featuring an impressive 8' diameter footprint and frame constructed from strong steel pipe, this super heavy-duty 5.5'-tall tripod is a sturdy choice for safely holding large antennas or big antenna masts with diameters from 1.25-2.5". Each leg provides independent height adjustment from 0-18" (for making precise adjustments when placed on uneven ground) and includes thumbscrew and locking pin, along with non-skid rubber feet, to prevent slippage. Tripod can be collapsed for easy transport.

MKR-99-570	Heavy-Duty Antenna Mast Tripod	**$239.99**



REZ ANTENNA SYSTEMS



REZ-SXF-41



REZ-SC-4017



REZ-Z17CSS

New!



REZ-Z25

GO Portable



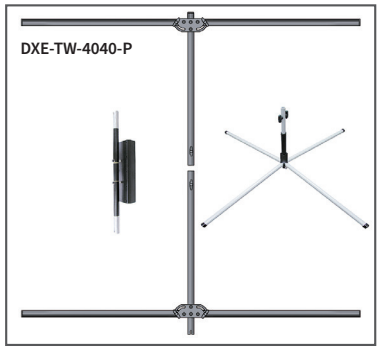
REZ-RBP-B

REZ Antenna System Accessories

Choose from a range of high-quality accessories to enhance your REZ portable antenna system operations.

REZ-MA-001	Universal Mast Mount, Fits Masts from 1"-1.75"	**$75.00**
REZ-SC-4017	40M Loading Coil for 17' Whip & Scout XFORM UNUN	**$75.00**
REZ-SC-4025	40M Loading Coil for 25' Whip & Scout XFORM UNUN	**$75.00**
REZ-ZQD-RP	Radial Puck, 8 4mm Jacks, 3/8"-24 Threaded Center	**$40.00**
REZ-ZQD-RP-U	Radial Puck Upgrade, 8 4mm Jacks, 1.96" Dia. Hole	**$45.00**
REZ-STA	Tripod Adapter, 3/8"-24 Antenna to 5/8"-11 Tripod	**$78.00**
REZ-SXF-41	4:1 XFORM UNUN, Requires Scout Base	**$175.00**
REZ-Z17CSS	17', 6" Telescopic Whip, 20-6M, 40M w/Scout 4017 Coil	**$75.00**
REZ-Z17SS	17' Telescopic Whip, 20-6M, 1,000W PEP	**$70.00**
REZ-Z25	25' Telescopic Whip, 30-6M, 1,000W PEP	**$100.00**
REZ-ZPOD-II	Aluminum Tripod, 3/8"-24 Mount for Coil & Whip	**$75.00**
REZ-RBP-B	Ranger Pro Backpack, Black	**$85.00**


DXE-TW-2010-P


DXE-TW-4040-P

DX ENGINEERING

TransWorld Antenna Packages



If you enjoy portable HF operation but don't enjoy lugging around a massive antenna, you should check out the TransWorld Antenna line. These antennas are small and portable, yet boast exceptional performance and durability. TransWorld Antennas are DX Engineering products, so they're built to the same precision standards that made TransWorld Antenna a household name for HF enthusiasts.

The DX Engineering TransWorld Antenna is essentially a basic structure consisting of top, bottom and tee sections with interchangeable Array Box Center Sections that you can purchase separately for the other bands you want. There are a ton of options; to make selecting the right antenna setup easier, we've created these handy packages.

5-Band Explorer

This combo delivers excellent 20, 17, 15, 12 and 10 meter coverage with manual bandswitching. It includes a portable Quadrastand, basic antenna structure, and a handy travel bag.

DXE-TW-2010L-P 5-Band Explorer Package **$888.95**

5-Band Adventurer

Similar to the 5-Band Explorer with the addition of automatic bandswitching. The travel bag is available separately.

DXE-TW-2010-P 5-Band Adventurer Package **$1,054.96**

Band-Specific Solo Explorer

This monoband antenna system gives you an impressive presence on the 40 meter band. It's an extremely portable package, and comes with Quadrastand and basic antenna structure components. Solo Explorers are available for the 80, 40 and 30 meter bands; visit DXEngineering.com to see all the HF options.

DXE-TW-4040-P 40 Meter Solo Explorer Package **$748.96**

5-Band Globetrotter



Though it's a great portable antenna, the TransWorld Antenna is actually perfect for stealthy home installation too, when paired with the TransWorld Permanent Mounting Pole that's included in this package. Like the 5-Band Adventurer, the Globetrotter features 20-10M coverage with automatic bandswitching.

DXE-TW-2010P-P 5-Band Globetrotter **$956.96**

Band Switch Box Cover

DXE-TW-COVER Band Switch Box Cover for TW-2010/2010L/3030/4040 ..... **$29.99**

COMET™

HFJ-350MTOYBX Portable Telescopic Antenna



Here's something convenient and powerful that you'll want to stash in your truck or Go-Kit. The three-division, lightweight HF portable HFJ-350MTOYBX makes it easy and quick to tune the 160 through 6M bands by manually changing the antenna's plug tap connection and whip length. This 10-band antenna includes a 10-section telescopic element, 160M extension coil, and base coil with M-P connector. It extends to 75" and collapses to 14" for easy transport. Power rating: 75W SSB PEP on 1.8 and 3.5 MHz; 100W SSB PEP on 7.0-50 MHz. Comet recommends use on your UHF mount or adapter with a counterpoise wire and tuner for best results.

CMA-HFJ350MTOYBX 10-Band Portable Antenna **$149.95**

CMA-CCB-HFJ Cloth Roll-Up Pouch, Toy Box HFJ-350M **$34.49**

Need help with your project? Call the tech line at 330-572-3200!

DX ENGINEERING GO Portable



NOMAD Fiberglass Telescopic Masts

Like their name implies, DX Engineering NOMAD Telescopic Masts are ready to travel wherever your adventures take you. Whenever you can have some radio fun, NOMAD masts keep you ready to put up your antenna quickly in a park, on a summit, or just about anywhere. Constructed from high-quality materials, these attractively finished and strong yet lightweight masts are available in four length and color combos. They're super short when collapsed for convenient transport and fast, easy deployment, with telescopic sections that lock in place with a simple twist of the wrist. Just attach a wire antenna and slide it up to the desired height. Choose from two 19' NOMAD19 models, red or black, that collapse to 22" for stashing in a backpack or gear bag. They feature 13 sections with a bottom section tube diameter of 1.5" and a base cover OD of 2". The two NOMAD23 models, also in red or black, have 14 sections that extend to 23' and collapse to 23.5". They feature a bottom section tube diameter of 2" and base cover OD of 2.5". NOMAD masts come with guy rings, guy ring clips for your ropes, and drawstring bag.

DXE-NOMAD19-BK NOMAD Telescopic Mast, 19', 13 Sections, Black..... **$106.99**
DXE-NOMAD19-RD NOMAD Telescopic Mast, 19', 13 Sections, Red..... **$106.99**
DXE-NOMAD23-BK NOMAD Telescopic Mast, 23', 14 Sections, Black..... **$142.99**
DXE-NOMAD23-RD NOMAD Telescopic Mast, 23', 14 Sections, Red..... **$142.99**

Telescopic Masts

WiMO



For convenient and worry-free portable operations, you can't go wrong with strong yet lightweight aluminum Telescopic Masts from WiMo. The masts' slotted aluminum tubing can be extended to the desired length and locked solidly in place with the attached clamps. Models are available from maximum heights of 13' to 52' in a variety of telescoped section counts (3 to 11) and top and bottom diameters. These versatile masts have a range of uses, including antenna construction, installation of weather stations, and mounting of monitoring cameras. Although the masts are primarily intended for temporary, portable use, they can also be installed permanently if properly fastened to serve as a guying point for a dipole antenna or other functions. The Metal Guy Ring Kit (WMO-23050) features a unique cable management slot that allows for the rotation of the mast while preventing the tangling of cables with the guys.

Enter "WiMo Telescopic" at DXEngineering.com.
Pricing from $119.99.

WMO-23046-01 Mast Clamp Quick-Release Handle **$16.99**
WMO-23050 Metal Guy Ring with Cable Management Slot and 4 Bushings Kit **$89.99**

Portable Mast Guying Rings

Sized for WiMo telescoping masts, these rings are made from fiberglass-reinforced plastic and come with three guying thimbles for secure rope attachment without binding or cutting. Rings anchor themselves at the mast clamp while allowing the mast to rotate even when anchored with guy ropes.

Portable Mast Guying Rings ..... from **$25.99**

Mast Tripods, Foot Plates, Tripod Rotator Mounting Plate

Perfect for EMCOMM, Field Day, SOTA, POTA, IOTA, or any occasion where you need a fast and hassle-free temporary installation, WiMo Tripods do the trick. They fold together in one simple move without any tools and collapse to a compact size for easy transport. Masts can be fixed within the tripods by means of two large tripod heads and secured by three knob screws. Legs fold out to a 3.5' radius. Tripod heads and legs are made of aluminum, and thread inserts are stainless steel. Choose from four models of differing heights and for mast base sections of 1" to 2.75" O.D. or 2" to 3.54" O.D. Sold in sets of three, aluminum Foot Plates can be used on the legs of your WiMo Tripod to stabilize it on sandy soil or keep it level on an incline. The 182312 makes it possible to mount select rotators for portable or semi-permanent operation.

WMO-18320 Mast Tripod for Masts of 1" to 2.75" O.D., Folds to 53" **$439.99**
WMO-18322 Mast Tripod for Masts of 1" to 2.75" O.D., Folds to 59" **$459.99**
WMO-18323 Mast Tripod for Masts of 1" to 2.75" O.D., Folds to 78.7" **$499.99**
WMO-18324 Mast Tripod for Masts of 2" to 3.54" O.D., Folds to 78.7" **$499.99**
WMO-18312 Mast Tripod Foot Plates (3)..... **$129.99**
WMO-18312-RP Tripod Rotator Mounting Plate for G-450CDC/G-1000DXC/G-2800DXC/Others..... **$249.99**

Telescoping Fiberglass Masts



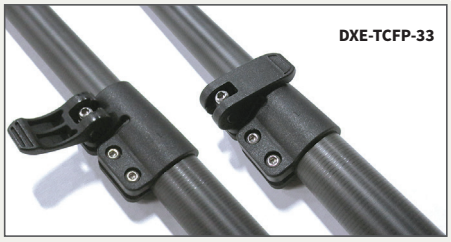
Choose from two WiMo fiberglass masts that make great choices for Field Day, POTA, SOTA, or temporary deployment in your backyard. The heavy-duty 18333-10 model features a 1.80" O.D. bottom tube with a wall thickness of 0.08" for safely handling wire antennas, VHF Yagis, or other small devices. With a bottom tube O.D. of 1.57", the 18333-6K also makes a reliable option for quick deployment just about anywhere. These reinforced telescoping masts are rigid, non-conductive, and easy to transport in your car or carry-on luggage.

WMO-18333-10 HD Fiberglass Telescoping Mast, 32.81', 3.3' Collapsed **$309.99**
WMO-18333-6K Fiberglass Telescoping Mast, 19.69', 2.13' Collapsed **$155.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

DX ENGINEERING

Premier Telescoping Carbon Fiber Masts


DXE-TCFP-33

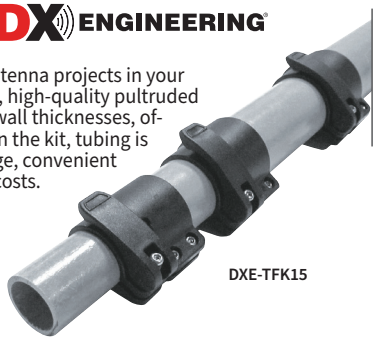
When you demand superior long-lasting performance, these high-strength masts make an excellent choice for your portable and temporary antenna supports. Lighter than aluminum and fiberglass and stiffer than steel of the same thickness, they're available in three extended lengths (24', 33', and 49', plus a heavy-duty 33' option). They feature short section lengths designed for low-cost shipping and easy transport, with the 49' model collapsing to 81" and the other three masts sliding down to an impressive 69"—perfect for your outdoor adventures and EMCOMM deployments. These black, UV- and corrosion-resistant masts include adjustable lever-action cam-lock clamps that secure the next smaller tube in place and allow for fast and simple raising and lowering. The included 3mm Allen wrench lets you remove clamps for placement of optional guy rings and make adjustments to lever grips.


DXE-TCFP-24

DXE-TCFP-24	24' Mast, 4 Clamps, 5 Sections, Top O.D. 0.89", Bottom O.D. 1.40"	$449.99
DXE-TCFP-33	33' Mast, 6 Clamps, 7 Sections, Top O.D. 0.89", Bottom O.D. 1.67"	$671.99
DXE-TCFP-33HD	Heavy-Duty 33' Mast, 6 Clamps, 7 Sections, Top O.D. 1.27", Bottom O.D. 2.06"	$824.99
DXE-TCFP-49	49' Mast, 9 Clamps, 10 Sections, Top O.D. 0.89", Bottom O.D. 2.06"	$1,211.99

15, 25, and 46 Foot Telescoping Fiberglass Tubing Mast Kits

DX ENGINEERING


DXE-TFK15

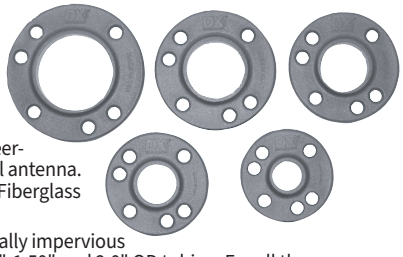
Perfect for operating on the go or testing antenna projects in your backyard, the kits come with finely finished, high-quality pultruded fiberglass tubing featuring nominal 0.120" wall thicknesses, offering strength and durability. Depending on the kit, tubing is collapsible to either 4' or 7.5' for easy storage, convenient loading in a vehicle, and reduced shipping costs. Heavy-duty model comes with 3" O.D. base section.

- Custom-made tubing
- Smooth telescoping
- Neutral light gray color
- Includes DX Engineering cam lock clamps, adjustment wrench and vinyl cap

DXE-TFK15	15' Telescoping Tubing Kit	$122.98
DXE-TFK25	25' Telescoping Tubing Kit	$237.98
DXE-TFK46	46' Telescoping Tubing Kit	$215.98
DXE-TFK46-HD	46' Heavy-Duty Telescoping Tubing Kit	$281.98

DX ENGINEERING

Guy Rings



You can use DX Engineering's finely engineered Guy Rings to secure your rope guys and stabilize your DX Engineering, Hustler or other aluminum vertical antenna. They're also great for our Telescoping Fiberglass and Aluminum Tubing Kits.

These guy rings are super strong, virtually impervious to the elements and fit 0.75", 1.0", 1.25", 1.50" and 2.0" OD tubing. For all the specs, please visit DXEngineering.com.

DXE-GR-2P	Guy Rings, Set of 2	$5.29
DXE-GR-4P	Guy Rings, Set of 4	$10.29
DXE-GR-5P	Guy Rings, Set of 5	$9.29

Telescoping Masts

ROHN Products LLC



Rohn telescoping masts are available in 28', 34', 36' and 43' nominal heights. They are pre-galvanized for corrosion protection and come assembled with hardware. All masts must be guyed or bracketed; installation should be done by experienced professionals. Telescoping masts are not recommended for commercial, CB or beam antenna installations. Truck Freight on "H" Series.

ROH-H30	28' Telescoping Mast	$141.99
ROH-H40	36' Telescoping Mast	$206.99
ROH-H50	43' Telescoping Mast	$264.99
ROH-9H50	34' Telescoping Mast	$282.99

Telescopic Mast Ground Mount

Built for your Rohn H and 9H (or any other 1.25"-1.5" telescopic mast), simply drive this ground mount into the soil, add your guy lines and get on the air.

ROH-GTMBL	Ground Mount	$87.99

In-Stock Parts Typically Ship The Same Day.



SB

GO Portable

Carbon-6 Compact Ultra-Light Telescopic Mast

This mast fits nicely in a backpack for easy transport on your outdoor adventures. It extends to 19' and collapses to 17". Smooth telescoping of the mast's 18 sections ensures rapid deployment.

- Supports lightweight horizontal or inverted-vee antennas.
- The mast does not affect attenuation in a significant way. At worst, users may see a loss of less than 0.1 dB (measured with a coil wound around the mast).

SBM-CARBON-6	Compact Ultra-Light Telescopic Mast	$85.99

MDCS-100 Drive-On Mast Mount

This mount makes it easy to operate from your parked car. Just drive a wheel onto the base plate and insert a mast into the steel sleeve. Pair it with the SOTAbeams Compact Travel Mast (SBM-TRAVELMAST) for a complete portable solution.

SBM-MDCS-100	Drive-On Mast Mount	$190.99

Antenna Lifting Kite

Its large enough to lift antennas with ease but small enough to remain easy to control, even in high winds. Drogue tail, 200 feet of braided Dacron line on reel, kite bag, 5 meter shock cord, two top insulators and two static bleed resistors included.

SBM-ANTLIFT-KT	Antenna Lifting Kite	$89.99

SB GO Portable



Portable Antenna Poles

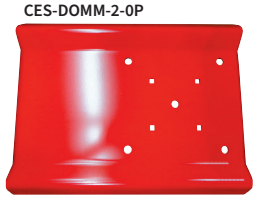
The Tactical TAC7000HDS is a heavy-duty fiberglass telescopic mast that's built tough for serious outdoor operators. The 23' mast collapses to 23" for easy transport, and the heavy-gauge pole sections combine strength, stiffness and proper weight for demanding applications. Other features include built-in base shock absorber and hollow top section for easy wire feeding. It makes a good complement to SOTABeams' Band Hopper antennas. The super-light MINI Telescopic Fiberglass Pole extends to 13' 6" with a closed length of only 20". Great for portable operations—especially cycling. Both poles include carrying bag. Also now available is the Tactical Mini Compact Ultra-Portable Telescopic Mast, built for easy transport in a backpack; and a guying kit for the Tactical Mini.

SBM-TAC7000HDS	Heavy-Duty Portable Antenna Mast, 23' extended, 23" collapsed	$295.99
SBM-MFGK-7000	Multi-Function Guying Kit for TAC7000HDS	$45.99
SBM-MINI-POLES	MINI Telescopic Fiberglass Pole, 13' 6" extended, 20" collapsed	$60.99
SBM-TACMINI	Mini Compact Ultra-Portable Telescopic Mast, 19.6' extended, 1.84' collapsed	$190.99
SBM-MFGK-MINI	Multi-Function Guying Kit for Tactical Mini Mast	$43.99
SBM-TACMINIGUYPK	Guying Hardware Pack for Tactical Mini Mast	$10.99

CARLSON Roof Towers
A SOLID BASE FOR CLEAR COMMUNICATION

GO Portable

CES-DOMM-2-0P





Heavy-Duty Drive-On Car Stands for Portable Masts

Here's a simple and smart solution for securing your antenna mast when operating portable. Just drive your vehicle onto these well-built stands to keep them from moving in all kinds of weather. The stands consist of a separate mast-holding pipe stand that attaches to a base plate. The plate is wide enough so you can safely drive your vehicle wheel on top of it. Pipe stands come in 2", 2.5", and 3" diameters to accommodate carbon fiber or fiberglass masts. The pipe stand and base plate are made from durable, heavy-duty steel. Kits come with hardware to fasten the pipe stand to the base plate. Carlson says to use common sense in high winds where the wind load rating of the antenna, based on height/square footage, could exceed mast limits. Available as heavy-duty model (red) with 1/4" steel base or standard model (gray) with 9-gauge high-tensile steel base.

CES-DOMM-HD-2-0P	HD Package, Base Plate, 2" ID Pipe Stand, Hardware	$325.98
CES-DOMM-HD-2-5P	HD Package, Base Plate, 2.5" ID Pipe Stand, Hardware	$355.98
CES-DOMM-HD-3-0P	HD Package, Base Plate, 3" ID Pipe Stand, Hardware	$371.98
CES-DOMM-HD-2-0	HD 2" ID Pipe Stand Only	$169.99
CES-DOMM-HD-2-5	HD 2.5" ID Pipe Stand Only	$199.99
CES-DOMM-HD-3-0	HD 3" ID Pipe Stand Only	$215.99
CES-DOMM-HD-BASE	Base Plate Only	$155.99
CES-DOMM-STD-2-0	Standard Package, Base, 2" ID Pipe Stand, Hardware	$119.00

Heavy-Duty Portable Antenna Mast Trailer Hitch Mount

New!

Great news for POTA operators! Here's a perfect solution for securely mounting your antenna mast to a standard 2" trailer hitch receiver. Constructed from heavy-duty steel and finished in gloss black for durability, the mast mount handles demanding conditions, fits masts up to 2.5", includes a locking thumb screw to ensure a secure hold on the mast, comes with corrosion-resistant stainless steel hardware, and offers tilt-down functionality. An included hitch pin and clip provide a quick and secure attachment to your vehicle. For stationary use only.

CES-TGMM-2-5	HD Portable Antenna Mast Trailer Hitch Mount	$185.99

⚠ WARNING: For Proposition 65 information, see p. 3

MOONRAKER

Mobile Antennas



The Mag-26 (MKR-99-569) 2M 5/8 Wave Magnet Mount Mobile Antenna with BNC connector provides great "Magic Band" signals whether used portable with an HT/mobile rig or as a base station antenna. Rated at 300W PEP, its amplifier-ready low SWR lets your transceiver safely deliver full power. A provided heavy-duty magnet mount holds the antenna tight at highway speeds. Includes 12' of coax and stainless steel radiator made to stand up to mobile use.

MKR-99-569 Mag-26 2M 5/8 Wave Magnet Mount Mobile Antenna..... **$47.99**

AMPRO-20HP 2M Mobile Whip

Built tough for the road, this 600W flexible whip for 20M operation features a sleek, low-profile design; a black, anti-static jacket that protects the loading coil while blending with your vehicle; helical-wound construction; a VSWR of 1.5:1 or better; and 3/8"-24 threaded base. Combined with its base, the whip provides almost 8' of antenna for powerful mobile operating.

MKR-99-574 AMPRO-20HP 2M Mobile Whip..... **$67.99**

Monoband Mobile Antennas



These tested and well-built helical-wound mobile whip antennas deliver excellent performance at a friendly price, from the Top Band model through 6M. Capable of a VSWR of 1.5:1 or better, each has a 3/8"-24 mounting stud. Low-profile Mini Stick models (077, 079, 080) mirror the construction of their larger counterparts and can be installed with just a small magnet mount. Mount not included.

MKR-12-054 160M Mobile Antenna, 100W..... **$188.99**
MKR-12-056 80M Mobile Antenna, 250W..... **$69.99**
MKR-12-057 60M Mobile Antenna, 250W..... **$64.99**
MKR-12-058 40M Mobile Antenna, 250W..... **$64.99**
MKR-12-060 30M Mobile Antenna, 250W..... **$61.99**
MKR-12-062 20M Mobile Antenna, 250W..... **$61.99**
MKR-12-064 17M Mobile Antenna, 250W..... **$58.99**
MKR-12-066 15M Mobile Antenna, 250W..... **$58.99**
MKR-12-068 12M Mobile Antenna, 250W..... **$58.99**
MKR-12-070 11M Mobile Antenna, 250W..... **$58.99**
MKR-12-072 10M Mobile Antenna, 250W..... **$58.99**
MKR-12-074 6M Mobile Antenna, 250W..... **$58.99**
MKR-12-077 20M Mobile Antenna, Mini Stick, 250W **$49.99**
MKR-12-079 40M Mobile Antenna, Mini Stick, 250W **$58.99**
MKR-12-080 80M Mobile Antenna, Mini Stick, 250W **$72.99**

MOONRAKER

Dual-Band Micro-Mag Antennas



For lightning-quick HT operation on the 2M and 70cm bands, Moonraker's magnetic-mounted 19" whip antennas get the job done. These 50W rated antennas come with a 13' RG-174 cable terminated to an SMA male, PL-259 male, or BNC male for fast connection to almost any modern handheld transceiver. Just pack a Dual-Band Micro-Mag Antenna in your car or Go Kit and you're ready for emergency mobile operation when the need calls.

MKR-12-028 MRM-100P 2M/70cm Micro-Mag, PL-259 Male..... **$30.99**
MKR-12-030 MRM-100S 2M/70cm Micro-Mag, SMA Male **$32.99**
MKR-12-031 MRM-100 2M/70cm Micro-Mag, BNC Male **$30.99**

MOONRAKER

Mobile Whip Dipole Center Mounts & Pole Mount



MKR-09-159

Moonraker Mobile Whip Dipole Center Mounts are designed to be used with two HF monoband mobile whips to create a single-band mini dipole. Available in either a straight or V-shaped dipole configuration, the 500W-rated center mounts feature two 3/8"-24 threaded inserts, so they're compatible with a wide range of mobile whips. A UHF SO-239 female coaxial connector is provided for connecting your coaxial cable.

MKR-09-159 Dipole Center Mount for Mobile Whip, Straight **$17.99**
MKR-09-161 Dipole Center Mount for Mobile Whip, V-Shaped..... **$17.99**

AMPRO Heavy-Duty Mobile Whip Center Mount

Built to withstand harsh conditions, the AMPRO Heavy-Duty Center Mount is compatible with any 3/8"-24 threaded mobile whip, making it ideal for building a single-band mini dipole. Mount includes an SO-239 female coaxial connector and two 3/8" V-clamps for installation on a tripod or mast up to 2" in diameter.

MKR-09-167 AMPRO Heavy-Duty Mobile Whip Center Mount..... **$76.99**

Heavy-Duty Pole Clamp Mount for Mobile Whip

Ideal for mounting any 3/8"-24 mobile whip to a pole or mast of up to 2" diameter, this clamp-style mount is built tough. Two 3/8" x 2" mounting clamps are included, along with an SO-239 female connector for connecting coaxial cable. A wire terminal and ground screw are provided for connecting a ground wire.

MKR-09-190 Heavy-Duty Pole Clamp Mount for Mobile Whip..... **$71.99**

Larsen VHF/UHF Mobile Antennas, Mounts, and Brackets

Pulse/LARSEN ANTENNAS



LSN-NMO150B LSN-NMO2-70B

DX Engineering is pleased to once again carry gear from Larsen Antennas (a Pulse brand), a company that has shipped more than two billion antennas over decades of service to the amateur radio community. Choose from 15 models of mono-, dual-, and tri-band antennas, either with an NMO or glass mount. Glass mounts are a solid option if you want to avoid drilling or if your vehicle has a non-metallic body. Some selections come with 14' coaxial cable assemblies with PL-259 connectors.

LSN-NMOQW144 21" Stainless Whip, 144-152 MHz, 1/4 Wave, NMO Mount..... **$29.99**
LSN-NMOQSPEC 22" Stainless Whip, 136-960 MHz, 1/4 Wave, NMO Mount..... **$53.99**
LSN-NMOQSPECB 22" Black Whip, 136-960 MHz, 1/4 Wave, NMO Mount **$48.99**
LSN-NMO150C 51.5" Stainless Whip, 144-174 MHz, 5/8 Wave, NMO Mount ... **$71.99**
LSN-NMO150450800 Chrome Tri-Band, 150-165/450-470/806-940 MHz, NMO Mount..... **$118.99**
LSN-NMO150B 51.5" Black Whip, 144-174 MHz, 5/8 Wave, NMO Mount **$80.99**
LSN-NMO50C 52.5" Stainless Whip, 47-54 MHz, 1/4 Wave, NMO Mount..... **$122.99**
LSN-NMO220C 30" Stainless Whip, 220-225 MHz, 5/8 Wave, NMO Mount..... **$103.99**
LSN-NMO50B 52.5" Black Whip, 47-54 MHz, 1/4 Wave, NMO Mount **$129.99**
LSN-NMO2-70SH 19" Stainless Whip, 144-148 /440-450 MHz, NMO Mount **$110.99**
LSN-NMO220B 30" Black Whip, 220-225 MHz, 5/8 Wave, NMO Mount **$130.99**
LSN-NMO2-70C 34.5" Chrome Whip, 144-148 /440-450 MHz, NMO Mount, with Closed Center Coil **$177.99**
LSN-NMO2-70B 34.5" Black Whip, 144-148/440-450 MHz, NMO Mount, with Open Center Coil **$173.99**
LSN-KG144UDPL 47" VHF, 144-160 MHz, Glass Mount, with 14' RG-58 Cable ... **$271.99**
LSN-KG2-70CXPL 32.75" VHF/UHF, 144-148 /442-448 MHz, Glass Mount, with 14' RG-58 Cable **$357.99**
LSN-NMOCAPB Replacement Rain Cap for NMO Mount **$11.75**
LSN-KGREINSTALL Reinstallation Kit for KG Glass Mount Antennas **$27.99**

27-30 MHz Mobile Whip Antennas

Great for 10 or 11 meter use, these base-loaded whip antennas measure 52.5" and fit nicely on a companion Larsen mount of your choice (not included), allowing you to run up to 150 watts of RF power. These loaded 1/4 wave antennas provide 2 dBi gain. Base fits just about any NMO type antenna mount.

LSN-NMO27B Black Whip 27-30 MHz Mobile Whip Antenna **$131.99**
LSN-NMO27C Stainless Steel Whip 27-30 MHz Mobile Whip Antenna **$117.99**

Base Station Antenna Adapter Kit

This special mount and bracket converts a VHF or UHF mobile antenna into a base station antenna. The antenna connector is a UHF mount. Kit includes an NMO mount adapter, so either type of mobile antenna mount style may be converted to base operations. The underside of the mount is an integral SO-239 connector for the user-supplied coax.

LSN-BSAKIT Base Station VHF/UHF Antenna Adapter Kit..... **$146.99**

Mobile Antenna Mounts

Choose from a range of premium-quality antenna mounts and brackets from Larsen, including NMO Round Magnet Mount with RG-58 Cable Assembly (PL-259 Connectors); L Mount Right Angle Brackets for Fender or Flat Surface; NMO Trunk Lid Mount with RG-58 Cable Assembly (PL-259 Connectors); NMO Mount for Mid-Thickness Metals with RG-58 Dual-Shield Cable; PO Magnet Mount with RG-58 Cable Assembly (SO-239 Female Connectors); and more.

LSN-NMOK NMO Mount, 17' RG-58 Cable, PL-259..... **$48.99**
LSN-NMOMMRPL NMO Round Magnet, 12' RG-58 Cable, PL-259..... **$125.99**
LSN-TMB34 L Mount Right Angle Bracket, Hole for NMO..... **$12.19**
LSN-NMOHF NMO Mount, High Frequency, Mount Only **$19.99**
LSN-NMOKHFCXPL NMO Mount, High Frequency, 17' RG-58 Cable, PL-259..... **$52.99**

Enter "Larsen Mount" at DXEngineering.com for the entire lineup.

MOONRAKER

Slider Multiband Mobile Whip Antennas



MKR-12-122

For quick and effortless tuning, these wideband mobile whips can be manually adjusted by sliding the telescoping, PL-259-terminated coil at the base. This base coil sleeve easily slides up and down to make adjustments for resonance. When the resonant point is found, a twisting nut lock secures the sleeve in place to prevent detuning. The top whip may also be adjusted for ultra-fine-tuning and optimizing VHF/UHF performance. With the MD-3500 model, a separate loading coil is included for 80M operation. Both models have maximum power handling of 130W SSB and 50 Ω rating.

MKR-12-122 MD-7400 HF Slider Antenna, 40M-70cm, 5.8'..... **$229.99**
MKR-12-124 MD-3500 HF Slider Antenna, 80M-6M, 8.53'..... **$229.99**

MOONRAKER

Mobile Antenna Right-Angle Mirror Mount

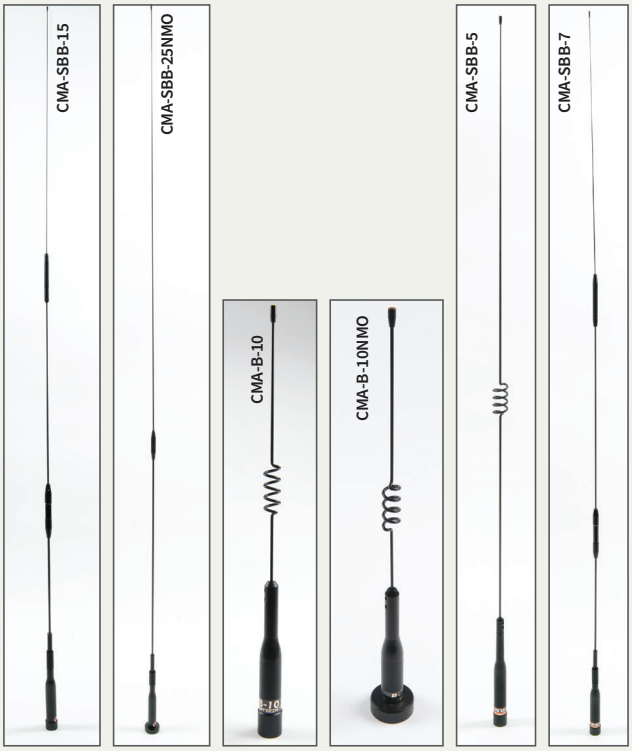


This aluminum right-angle mobile antenna mirror mount features a UHF mount (SO-239) and 13.1' of RG-58 coaxial cable with a PL-259 termination. Fits up to 1" mirror bars but can be extended with longer bolts.

MKR-15-065 Mobile Antenna Right-Angle Mirror Mount..... **$35.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

COMET™



Mobile Antennas

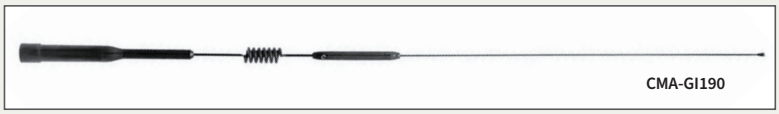
Comet lets you take your show on the road with a vast selection of effective, reliable and durable mobile antennas. There are options for every common band, plus dual-band and tri-band antennas too. Comet also gives you several different antenna styles to ensure the installation in your vehicle stays clean and unobtrusive.

In addition to use in your vehicle, these mobile antennas are also great for Field Day or EMCOMM. Their rugged durability makes them portable, even in less-than-ideal conditions. Take a look at the chart; it is easy to find one that's perfect for your needs.

You can get all the specs at DXEngineering.com.

Tri-Band

Part Number	Description	Height	Band(s)	Gain	Price
CMA-SBB-15	Tri-Band Mobile Antenna, Black, Fold-Over, UHF Base	61"	6 Meter 2 Meter 70cm	2.4 dBi 4.5 dBi 7.2 dBi	**$116.95**
CMA-SBB-224	Tri-Band Mobile Antenna, Black, Fold-Over, UHF Base	36"	2 Meter 1.25 Meter 70cm	2.1 dBi 3.5 dBi 6 dBi	**$99.95**
CMA-SBB-224NMO	Tri-Band Mobile Antenna, Black, Fold-Over, NMO Base	36"	2 Meter 1.25 Meter 70cm	2.1 dBi 3.5 dBi 6 dBi	**$99.95**



GI Series VHF/UHF Ground Independent Mobile Vertical Antennas

These dual-band mobile antennas are designed for installation in places where traditional ground plane antennas won't work. They require no ground plane, making them perfect for use on vehicles such as RVs, boats, golf carts, ATVs, and motorcycles. They are available in three models with either UHF or NMO connector:

- 70W GI190 Series antennas are 28" long with 2.15 dBi (VHF); 5 dBi (UHF)
- 200W GI250 Series antennas are 39" long with 2.5 dBi (VHF); 5.5 dBi (VHF)
- 150W GI990 Series antennas are 62" long with 5.1 dBi (VHF); 7.7 dBi (UHF)

New!

CMA-GI190 GI Series GI190 Antenna, UHF Connector **$65.95**
CMA-GI190NMO GI Series GI190 Antenna, NMO Connector **$65.95**
CMA-GI250 GI Series GI250 Antenna, UHF Connector **$82.95**
CMA-GI250NMO GI Series GI250 Antenna, NMO Connector **$82.95**
CMA-GI990 GI Series GI990 Antenna, UHF Connector **$101.95**
CMA-GI990NMO GI Series GI990 Antenna, NMO Connector **$101.95**

Dual-Band

Part Number	Description	Height	Band(s)	Gain	Price
CMA-B-10	Dual-Band Mobile Antenna Black, UHF Mount	12"	2 Meter 70cm	— 2.1 dBi	**$49.95**
CMA-B-10NMO	Dual-Band Mobile Antenna Black, NMO Mount	12"	2 Meter 70cm	— 2.1 dBi	**$49.95**
CMA-SBB-1NMO	Dual-Band Mobile Antenna Black, NMO Mount	16"	2 Meter 70cm	1.5 dBi 2.1 dBi	**$54.95**
CMA-SBB-2	Dual-Band Mobile Antenna Black, UHF Mount	18"	2 Meter 70cm	2.1 dBi 3.8 dBi	**$54.95**
CMA-SBB-2NMO	Dual-Band Mobile Antenna Black, NMO Mount	18"	2 Meter 70cm	2.1 dBi 3.8 dBi	**$54.95**
CMA-SS-460SBNMO	Dual-Band Mobile Antenna Black, NMO Spring Mount	18"	2 Meter 70cm	2.1 dBi 3.8 dBi	**$54.95**
CMA-MA-721	Dual-Band Mobile Antenna, Mag Mount, 16.5' Coax w/ PL-259 and SMA Connectors	19.5"	2 Meter 70cm	1.7 dBi 4.1 dBi	**$61.49**
CMA-SS-680SB	Dual-Band Mobile Antenna Black, UHF Spring Mount	27"	2 Meter 70cm	2.1 dBi 4.1 dBi	**$59.95**
CMA-SS-680SBNMO	Dual-Band Mobile Antenna Black, NMO Spring Mount	27"	2 Meter 70cm	2.1 dBi 4.1 dBi	**$59.95**
CMA-SBB-5	Dual-Band Mobile Antenna Black, Fold-Over, UHF Mount	38"	2 Meter 70cm	3 dBi 5.5 dBi	**$69.95**
CMA-SBB-5NMO	Dual-Band Mobile Antenna Black, Fold-Over, NMO Mount	38"	2 Meter 70cm	3 dBi 5.5 dBi	**$69.95**
CMA-SBB-7	Dual-Band Mobile Antenna, Black, Fold-Over, UHF Mount	55"	2 Meter 70cm	4.5 dBi 7.2 dBi	**$89.95**
CMA-SBB-7NMO	Dual-Band Mobile Antenna Black, Fold-Over, NMO Mount	55"	2 Meter 70cm	4.5 dBi 7.2 dBi	**$89.95**

COMET™

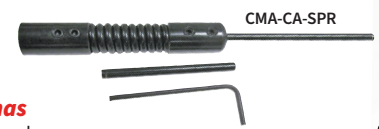
Multi-Band Mobile Antennas

Combine incredible frequency coverage in a rugged package, and you get these versatile antennas from Comet. You can make SWR adjustments independently and achieve SWR levels lower than a monoband antenna.

A fold-over hinge is included with both models, handy for low overhangs, and they have a PL-259 connector. Available in quad-band and six-band models, these antennas are a great option if you want extended mobile coverage without turning your vehicle's roof into an antenna farm.

CMA-UHV-4 10M/6M/2M/70cm Quad-Band Mobile Antenna, 54" High **$149.95**
CMA-UHV-6 40M/15M/10M/6M/2M/70cm Six-Band Mobile Antenna, 76" High **$199.95**

COMET™



CA-2x4SR Mobile Vertical Antennas

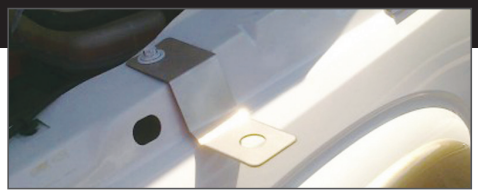
These antennas are built to assist search and rescue volunteers who need voice communications on the Ham, land mobile and FRS frequency ranges. With these 40" antennas you get remarkable coverage, with 3.8 dBi gain on 2M and 6.2 dBi gain on 70cm. Plus, you'll be able to transmit and receive in both bands. Made for the field, these are the ideal mobile antennas for EMCOMM.

CMA-CA-2X4SR 2M/70cm Broadband Mobile Antenna, UHF Base **$89.95**
CMA-CA-2X4SRNMO 2M/70cm Broadband Mobile Antenna, NMO Base **$89.95**
CMA-CA-SPR Optional Spring Section for 2X4SR Antennas **$28.95**



For new hams, check out our Getting Started HT, Mobile, and Base Radio Packages!

⚠ WARNING: For Proposition 65 information, see p. 3



CMA-SD2ANTNCG



CMA-DG2ANTPF

No-Hole Fender Brackets

Mount your mobile antenna without damaging your truck or SUV's paint. The brackets use the existing fender bolts, so there are no holes to drill and no set-screws that could scratch your vehicle's finish. The brackets have a 3/4" hole that works with most NMO and UHF mount cable assemblies. Don't see your vehicle listed? Visit DXEngineering.com to see more brackets.

Part Number	Vehicle Applications	Price
Chevrolet/GMC		
CMA-SUANTPF	2000-02 Silverado 2000-06 Suburban/Sierra	**$26.99**
CMA-COANTNCG	2012-23 Canyon, Colorado	**$26.99**
CMA-CVANTPF	2007-13 Silverado, Sierra 1500, Avalanche; 2007-14 Suburban, Tahoe, Yukon, Sierra 2500/3500	**$26.99**
CMA-SU2ANTNCG	2015-20 Subn./Tahoe/Yukon	**$26.99**
CMA-CVANTPF	2007-13 Silverado, Avalanche, Sierra 1500; 2007-14 Suburban, Tahoe, Sierra 2500/3500	**$26.99**
CMA-CV2ANTNCG	2014-19 Silverado; 2014+ Sierra 1500; 2015-19 Sierra 2500/3500	**$26.99**
CMA-CV2ANTNCG-R	2014-19 Silverado/Sierra, Passenger's Side	**$26.99**
CMA-CV3ANTNCG	2020+ Silverado/Sierra Driver's Side	**$26.99**
CMA-CV3ANTNCG-R	2020+ Silverado/Sierra Passenger's Side	**$26.99**
CMA-CV4ANTNCG	2024+ Silverado 2500/3500 Driver's Side	**$26.95**
CMA-CV4ANTNCG-R	2024+ Silverado 2500/3500 Passenger''s Side	**$26.95**
Dodge		
CMA-DGANTPF	2002-08 Ram 1500-3500	**$26.99**
CMA-DG2ANTPF	2009-18 Ram 1500; 2010-18 Ram 2500/3500/4500/5500	**$26.99**
CMA-DG3ANTNCG	2019-23 Ram 1500-3500	**$26.99**
Ford		
CMA-FOANTPF	2005-08 F-150	**$26.99**
CMA-FO2ANTPF	2009-14 F-150; 2009-17 Exp.	**$26.99**
CMA-FO3ANTNCG	2015-20 F-150; 2018-21 Exp.	**$26.99**
CMA-FO4ANTNCG	2021+ F-150 Driver's Side	**$26.99**
CMA-FO4ANTNCG-R	2021+ F-150 Pass. Side	**$26.99**
CMA-SDANTPF	2005-10 F-Series Super Duty	**$26.99**
CMA-SD2ANTNCG	2011-16 F-Series Super Duty	**$26.99**
CMA-DGANTPF	2011-14 Explorer	**$26.99**
CMA-FO3ANTNCG-R	2015-20 F-150; 2017-22 Super Duty; 2018-21 Expedition Pass. Side	**$26.99**

Mobile Antenna Mounts



CMA-CK-3M



CMA-CM-5M



CMA-CP-5M



CMA-RS-520



CMA-RS-730

You've invested a lot of time and money in your mobile antenna, now make sure it stays put with a genuine Comet Antenna Mount. Comet gives you several mounting options and many require no drilling, so there are no unsightly holes to cover up. Whatever your antenna size may be, there's a quality mount available for it. Some mounts come in kit form, complete with cable assemblies and connectors. Others allow you the freedom to choose how to connect your antenna. Drive safe and operate freely, knowing your antenna is secured right where it's supposed to be, by choosing a Comet Antenna Mount.

Part Number	Description	Base Type	Includes	Price
CMA-3D4M	Standard Mobile Lip-Mount Cable Assembly	UHF	Mount, 13' of Coax, O-Ring, PL-259 Cable Connectors	**$35.95**
CMA-3D4N	Standard Mobile Lip-Mount Cable Assembly	Type N	Mount, 13' of Coax, O-Ring, PL-259 Cable Connectors	**$36.95**
CMA-3D5M	Standard Mobile Lip-Mount Cable Assembly	UHF	Mount, 16.5' of Coax, O-Ring, PL-259 Cable Connectors	**$37.95**
CMA-CK-3-3-8-24	Deluxe Mobile Mount Cable Assembly	3/8"-24 Receptacle	Mount, 16' of Coax, O-Ring, PL-259 Cable Connectors	**$49.49**
CMA-CK-3M	Deluxe Mobile Mount Cable Assembly	UHF	Mount, 16.75' of Coax, O-Ring, PL-259 Cable Connectors	**$51.95**
CMA-CK-3M5	Deluxe Mobile Mount Cable Assembly	UHF	Mount, 16' of Coax, O-Ring, PL-259 Cable Connectors	**$61.49**
CMA-CK-3NMO3	Deluxe Mobile Mount Cable Assembly	NMO	Mount, 9.75' of Coax, PL-259 Cable Connectors	**$51.95**
CMA-CK-3NMO5	Deluxe Mobile Mount Cable Assembly	NMO	Mount, 16.75' of Coax, PL-259 Cable Connectors	**$61.49**
CMA-CK-5N	Deluxe Mobile Mount Cable Assembly (for RS-730)	Type N	Mount, 16' of Coax, O-Ring, Type N Cable Connectors	**$57.95**
CMA-CM-5M	Mobile Antenna Magnet Mount	UHF	Magnet Mount, Base, 13' of Coax, PL-259 Connectors, Rubber Boot	**$53.95**
CMA-CM-5NMO	Mobile Antenna Magnet Mount	NMO	Magnet Mount, Base, 16.9' of Coax, NMO/PL-259 Connectors, Rubber Boot	**$53.95**
CMA-CP-5M	Mobile Antenna Adjustable Lip Mount	UHF	Mount, 16' of Coax, PL-259 Cable Connectors	**$84.95**
CMA-CP-5NMO	Mobile Antenna Adjustable Lip Mount	NMO	Mount, 16' of Coax, NMO and PL-259 Cable Connectors	**$84.95**
CMA-CR-5M	Standard Cable Assembly	UHF	Mount, 16' of Coax, PL-259 Cable Connectors	**$45.95**
CMA-CST-30	Antenna Connector Mounting Bracket Kit	Holes for SMA/BNC	For IC-705 and FT-818ND, BNC Male to UHF Adapter Cable Included	**$42.95**
CMA-HD-5-3-8-24	Mobile Antenna Adjustable Lip Mount	3/8"-24 Receptacle	Mount, 16' of Coax, Rubber Pad, Set Screws, PL-259 Connector	**$99.49**
CMA-HD-5M	Mobile Antenna Adjustable Lip Mount	UHF	RS-840 Bracket, CK-3M5 Cable Assembly	**$94.95**
CMA-LD-5M	Mobile Antenna Small Adjustable Lip Mount	UHF	Mount, 16' of Coax, Rain Cap, PL-259 Cable Connectors	**$74.95**
CMA-MG-4N	Mobile Antenna Magnet Mount (2.5 GHz)	Type N	Magnet Mount, 13' of Coax, Rain Cap, Type N Cable Connector	**$63.49**
CMA-RS-660U	Mobile Antenna Adjustable Roof Rack Mount	—	Mount (UHF Connector Required)	**$53.95**
CMA-RS-520	Mobile Antenna Light-Duty Adjustable Lip Mount	—	Mount (UHF Connector Required)	**$33.49**
CMA-RS-720	Mobile Antenna Med.-Duty Adjustable Lip Mount	—	Mount (UHF Connector Required)	**$34.49**
CMA-RS-720NMO	Mobile Antenna Med.-Duty Adjustable Lip Mount	—	Mount (NMO Connector Required)	**$34.49**
CMA-RS-730	Mobile Antenna Heavy-Duty Adjustable Lip Mount	—	Mount (Connector Required)	**$37.95**
CMA-RS-840	Mobile Antenna Heavy-Duty Adjustable Lip Mount	—	Mount (Connector Required)	**$47.95**

DIAMOND ANTENNA

Mobile HF Monoband Antennas

Made for miles of reliable operation, these antennas provide low SWR and no-compromise performance. They feature fold-over hinges and SO-239 mounts. The stainless steel construction means they'll handle the rigors of mobile use, while the 2-piece design makes them easy to store.

Part Number	Band	(PEP)	Height	Price
DMN-HF80CL	80M	120 W	87.5"	**$74.99**
DMN-HF40CL	40M	200 W	86.6"	**$74.99**
DMN-HF20CL	20M	200 W	86.6"	**$74.99**



DIAMOND ANTENNA

Mobile Screwdriver Antenna

Imagine: One antenna, ALL HF bands—plus 6 meters. Available with a UHF mount or a 3/8"-24 stud mount, these antennas are your answer for a comprehensive mobile HF setup. They run off your vehicle's 12 Vdc system and allow you to move from band-to-band with the flick of a switch. The SD330 antenna also provides excellent SWR and can handle 200 watts PEP.

These antennas stand over 73 inches tall and weigh 2.5 pounds, so make sure your vehicle can handle the size. The kits include the antenna, motor, switch and wiring harness.

DMN-SD330 Mobile Screwdriver Antenna, HF Mount **$399.99**



Part Number	Description	Height	Band(s)	Gain	Price
Monoband					
DMN-M285S	Trim-to-Tune, UHF Mount	50"	2M	3.4 dBi	**$33.99**
DMN-NR22L	Fold-Over, UHF Mount	96.8"	2M	6.5 dBi	**$68.99**
Dual-Band					
DMN-AZ504SP	Spring Base, UHF Mount	15.5"	2M/70cm	2.1 dBi	**$44.99**
DMN-NR72BNMO	Mobile Antenna, NMO Mount	13.8"	2M/70cm	2.1 dBi	**$40.99**
DMN-MR77	Mini Mag-Mount, Coax, UHF Male	20"	2M/70cm	2.1 dBi 3.4 dBi	**$37.99**
DMN-MR77SJ	Mini Mag-Mount, Coax, SMA Female	20"	2M/70cm	2.1 dBi 3.4 dBi	**$37.99**
DMN-MR77SMA	Mini Mag-Mount, Coax, SMA Male	20"	2M/70cm	2.1 dBi 3.4 dBi	**$37.99**
DMN-NR73BNMO	Radial-less, NMO Mount	33.5"	2M/70cm	2.1 dBi 5.3 dBi	**$56.99**
DMN-NR770HNMO	Chrome Radial-less, NMO Mount	38.2"	2M/70cm	3 dBi 5.5 dBi	**$55.99**
DMN-NR770HBNMO	Black Radial-less, NMO Mount	38.2"	2M/70cm	3 dBi 5.5 dBi	**$55.99**
DMN-NR770HA	Chrome Radial-less, UHF Mount	40.2"	2M/70cm	3 dBi 5.5 dBi	**$49.99**
DMN-NR770HB	Black Radial-less, UHF Mount	40.2"	2M/70cm	3 dBi 5.5 dBi	**$53.99**
DMN-NR7900A	Fold-Over, UHF Mount	57"	2M/70cm	3.7 dBi 6.4 dBi	**$99.99**
DMN-SG7900ANMO	Fold-Over, NMO Mount	62"	2M/70cm	5 dBi 7.6 dBi	**$119.99**
Tri-Band					
DMN-CR320A	Fold-Over, UHF Mount	37.4"	2M 1.25M 70cm	2.1 dBi 3.8 dBi 5.5 dBi	**$79.99**
DMN-CR320BNMO	Fold-Over, NMO Mount	37.4"	2M 1.25M 70cm	2.1 dBi 3.8 dBi 5.5 dBi	**$79.99**
Quad-Band					
DMN-CR8900A	for Yaesu FT-8900/8900R, SO-239, Not Recommended for Magnet Mounts	50"	10M/6M/ 2M/70cm	2.1 dB/ 5.5 dB	**$114.99**

COMET™



Ground Independent Mobile Antennas for GMRS/MURS

Designed for GMRS (462-488 MHz) and MURs (152-155 MHz) frequencies, these dual-band UHF/VHF antennas make excellent companions on your off-roading adventures. The 37" black-anodized antennas are hinged for easy fold-over and come in PL-259 and NMO connector models. Comet says the antennas feature 120W power handling with antenna gains of 3 dBi for VHF/MURS and 5.5 dBi for UHF/GMRS.

CMA-FC5 Ground Independent Mobile Antenna, PL-259 ..... **$67.95**

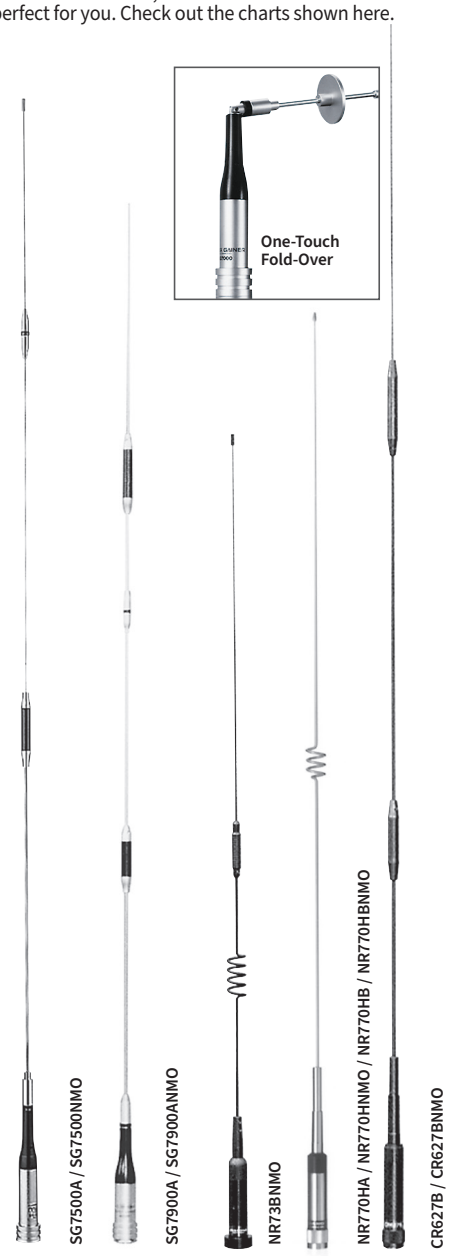
CMA-FC5NMO Ground Independent Mobile Antenna, NMO **$67.95**

FREE standard shipping on qualifying orders! See page 68 for details and exceptions.

DIAMOND ANTENNA

Mobile Antennas

Diamond offers you an extensive line of mobile antennas, so you can easily find one suited for your exact demands. These antennas are the ideal fusion of price, quality and versatility. Whether your priority is based on gain, height, power or aesthetics, there's a Diamond Antenna that's perfect for you. Check out the charts shown here.



Supergainer Antennas

If you want an effective mobile wideband antenna that offers great performance without a lot of tuning and adjustment headaches, then Diamond's Supergainer series is perfect. These wideband antennas feature 24K gold plated connector pins for excellent continuity, and the fold-over design is invaluable if you face low overhead obstructions like garages or parking decks.

DMN-SG7000A 2M/70cm Wideband Antenna, UHF, 18.5" **$73.99**

DMN-SG7500A 2M/70cm Wideband Antenna, Radial-less, UHF, 40.6" **$72.99**

DMN-SG7500NMO 2M/70cm Wideband Antenna, Radial-less, NMO, 41" **$77.99**

DMN-SG7900A 2M/70cm Wideband Antenna, Radial-less, UHF, 62.2" **$114.99**

DMN-AZ507RSP 2M/70cm SlimGainer, Radial-less, UHF, 27.5" **$49.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

DIAMOND ANTENNA

DMN-K702M



Magnet Mounts

A magnet mount that stays put! These deluxe mounts feature powerful magnets housed in a heavy four to six inch diameter base. The deluxe model can even hold antennas up to 50 inches tall. If you need a magnet mount that you can set-and-forget, Diamond gives you plenty of choices.

DMN-DPK4NM-N	Magnet Mount, 13' Coax, Type N, for 45" Antenna Max	**$56.99**
DMN-K702M	Magnet Mount, Deluxe Low-Profile, PL-259, for 50" Antenna Max	**$58.99**
DMN-SPM35	Magnet Mount, 13' Coax, PL-259, for 45" Antenna Max	**$49.99**

CRM Mirror and Luggage Rack Mount



It's a beautifully simple right-right angle bracket with a U-bolt that creates a proven, secure attachment point for mirrors, racks or anything made from tubing up to 1 1/16" OD. The mount is stainless steel to withstand years of outdoor abuse. It has a 5/8" hole for your UHF connector.

DMN-CRM	CRM Mirror and Luggage Rack Mount	**$18.99**

K400 Series Trunk and Hatchback Mounts

These K400 Series deluxe heavy-duty mounts are ideal for large VHF/UHF and medium-sized HF antennas—including many popular screwdriver antennas. The strong mounts are adjustable on two axis. Install them vertically or horizontally without drilling any holes in your vehicle's body.

DMN-K400



DMN-K400S



K400 Mounts

DMN-K400	Trunk/Hatchback Mount Only	**$41.99**
DMN-K400-3-8C	6.5' Coax, 3/8"-24 Base/Mini UHF Cable Connector	**$79.99**
DMN-K400C	6.5' Coax, UHF Base/Mini UHF Cable Connector	**$79.99**
DMN-K400CNMO	6.5' Coax, NMO Base/Mini UHF Cable Connector	**$79.99**
DMN-K400S	13.5' Coax, UHF Base/SMA Male Cable Connector	**$84.99**
DMN-K400SNMO	13.5' Coax, NMO Base/SMA Male Cable Connector	**$84.99**
DMN-K400-3-8C2	13.5' Coax, 3/8"-24 Base/Mini UHF Cable Connector	**$84.99**

UHF Mobile Antenna Mount Weather Cap



Keep your exposed UHF mobile antenna mount free of corrosion so it's always ready when you need to remount the antenna. Keep one in the car and screw it on whenever the antenna is removed from the UHF mount to drive into a garage or go through a car wash.

DMN-31005	Weather Cap	**$3.99**

Mobile Mount Adapter



If you're going to run a big mast or antenna on your mobile rig, chances are that it's going to have a stud mount. Make your installation go smoothly with this handy adapter that takes your SO-239 antenna mount and converts it to a 3/8"-24 stud mount. It includes male/female adapters for the stud, too.

DMN-D38-24	Mobile Mount Adapter	**$21.99**

HRKS Adhesive Backed Antenna Mount



If you don't want to drill a hole or put a mag-mount on your car, Diamond offers an adhesive backed antenna mount that securely adheres to glass, steel, fiberglass—virtually any smooth, flat surface. When it's time to remove the mount, just use some fishing line to "saw" it off without a trace. This two-piece adjustable mount has an SO-239 antenna base, 13.6 feet of coax ending in an SMA male connector and an SMA female to PL-259 adapter.

DMN-HRKS	Adhesive Backed Antenna Mount	**$74.99**

COMET™



CMA-AD-25M



CMA-AD-10N CMA-AD-15M CMA-AD-35M

Mobile Antenna Mount Adapters

Stretch your mobile antenna budget by using Comet Antenna Mount Adapters. Instead of buying a new mount for your new antenna, you can repurpose your existing mount using these adapters. Made from top quality materials, these no-compromise mounts will speed up new antenna installs.

CMA-AD-10N	Antenna Mount Adapter, NMO to Type-N Female	**$28.95**
CMA-AD-15M	Antenna Mount Adapter, NMO to SO-239 Female	**$26.49**
CMA-AD-25M	Antenna Mount Adapter, SO-239 Female to NMO	**$19.49**
CMA-AD-35M	Antenna Mount Adapter, 3/8"-24 to PL-259	**$22.95**

DIAMOND ANTENNA

DMN-K9000LRMO



DMN-K9000LRM



K9000 Series Mobile Motor Drive Mounts

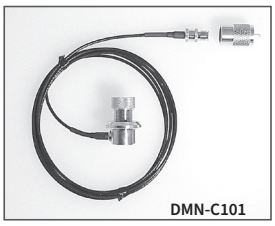
Raise and lower your dual-band mobile antenna with the touch of a button. A 12V cigarette lighter plug-powered manual switch allows you to tilt your antenna up and down—perfect for garages or low overpasses. A 20' long DC power cord is included to complete your setup. These mounts are compatible with antennas that are under 45" tall and don't require a ground. They are designed to mount securely to your luggage rack/tubing or trunk/hatch lip. Requires hole mount cable assembly shown below.

DMN-K9000LRM	Mobile Drive Mount for Small, Tubular Luggage Rack	**$124.99**
DMN-K9000LRMO	Mobile Drive Mount for Large, Oversize Luggage Rack	**$124.99**
DMN-K9000TM	Mobile Drive Mount for Trunk Lid or Hatchback	**$124.99**



DMN-K9000LRMO

DIAMOND ANTENNA



DMN-C101



DMN-C213SMA



DMN-C110

Hole Mount Cable Assemblies

Whether used as stand-alone antenna mounts or cable extensions, these assemblies will help you create a clean installation. They feature slim 1/8" diameter PTFE coax and mini UHF connectors, allowing you to easily thread these mounts through holes, between panels and around corners.

DMN-C101	6.5' Coax, UHF Base/Mini UHF Cable Connector	**$41.99**
DMN-C10138CKIT	6.5' Coax, 3/8"-24 Base/Mini UHF Cable Connector	**$46.99**
DMN-C101NMO	6.5' Coax, NMO/Mini UHF Cable Connector	**$41.99**
DMN-C211	6.5' Coax, UHF/Mini UHF Cable Connector, C110 Ext. Cable	**$59.99**
DMN-C213SMA	13.6' Coax, UHF/SMA Male Cable Connector	**$47.99**
DMN-C213SNMO	13.6' Coax, NMO/SMA Male Cable Connector	**$47.99**
DMN-C110	10' Extension Cable, Mini UHF Male/Female Connectors	**$21.99**

DMN-K515SNMO



K515, K540 and K550 Series Luggage Rack Mounts



DMN-K540

DMN-K550KM



Ideal for your vehicle's luggage rack, these mounts clamp securely for a stable connection. The K540 Series can even clamp to your long mirror arm or any 1/2 to 7/8" tubing. Every model includes a handy fold-down feature, so you can lower your antenna for garages and parking decks. All three series are well suited for lightweight and medium-sized antennas. Diamond's K515 Series is recommended for antennas under 50" tall, and the K550 Series is great for antennas under 45".

K515 Mount

DMN-K515S	Luggage Mount w/UHF Mount and 13' Cable/PL-259	**$79.99**
DMN-K515SNMO	Luggage Mount w/NMO Mount and 13' Cable/PL-259	**$79.99**

K540 Mount

DMN-K540	Luggage Mount Only	**$39.99**
DMN-K540KM	Luggage Mount w/UHF Mount and 13' Cable/PL-259	**$64.99**

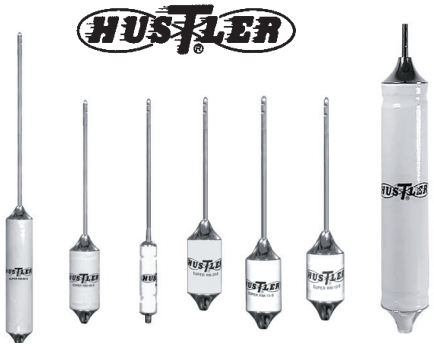
K550 Mount

DMN-K550	Luggage Mount Only	**$44.99**
DMN-K550KM	Luggage Mount w/UHF Mount and 13' Cable/PL-259	**$69.99**

Need help with your project? Call the tech line at 330-572-3200!

⚠ **WARNING:** For Proposition 65 information, see p. 3

Hustler Standard and Super Resonators



Individual Hustler Resonators are available for 80, 75, 40, 30, 20, 17, 15, 12 and 10 meters. Use these resonators with Hustler's MO-2 or MO-4 mounts, mobile masts, and other accessories to build a custom mobile antenna. Use DX Engineering Hot Rodz® capacity hats and other accessories with these resonators to improve antenna efficiency. Replacement set screws with hex key for all Hustler Resonators (DXE-HUSRES-SSKIT) are now available. Find more Hustler Resonator options at DXEngineering.com. Please note that resonator PEP is reduced for data modes.

Part Number	Band	Power Handling (PEP)	Bandwidth at 2:1 SWR	Price
HSR-RM-80	80M	400 W	25-30 kHz	**$71.99**
HSR-RM-80S	80M	1,000 W	50-60 kHz	**$128.99**
HSR-RM-75	75M	400 W	50-60 kHz	**$71.99**
HSR-RM-75S	75M	1,000 W	50-60 kHz	**$128.99**
HSR-RM-40	40M	400 W	40-50 kHz	**$63.99**
HSR-RM-40S	40M	1,000 W	50-80 kHz	**$104.99**
HSR-RM-30	30M	400 W	50-60 kHz	**$63.99**
HSR-RM-20	20M	400 W	80-100 kHz	**$54.99**
HSR-RM-17	17M	400 W	120-150 kHz	**$54.99**
HSR-RM-15	15M	400 W	100-150 kHz	**$41.99**
HSR-RM-12	12M	400 W	90-120 kHz	**$41.99**
HSR-RM-10	10M	400 W	150-250 kHz	**$41.99**
Replacement Parts for Hustler Resonators				
HSR-MO-2	Hustler 54" Folding Mast for Fender/Bumper			**$73.99**
HSR-MO-3	Hustler 54" Non-Folding Mast, Marine Apps			**$54.99**
HSR-MO-4	Hustler Non-Folding Mast, 22" Total Length			**$44.99**
HSR-QD-2	Hustler Stainless Steel Disconnect, 3/8"-24			**$55.99**
HSR-49-04-40S	Replacement Whip for RM-40S			**$13.99**
HSR-49-04-80S	Replacement Whip/Corona Ball for RM-75S/80S			**$13.99**
DXE-HUSRES-SSKIT	4 Replacement 10-32 x 1/8" Set Screws with 3/32" Hex Key for all Hustler Resonators			**$5.99**



HSR-QD-2



HSR-SSM-2

Mobile Antenna Mounts

HSR-SSM-2 Heavy-Duty Stainless Steel Ball Mount, 2" Diameter **$64.99**
HSR-SSM-3 Stainless Steel Spring, 3" **$65.99**
HSR-L-14-144 12' RG-58/PL-259 to Lugs, Coax to Ball Mount **$19.99**
HSR-VP-1 Tri-Band Adapter for HF Mobile Antenna **$17.99**
HSR-QD-2 Stainless Steel Quick Disconnect, 3/8"-24 ..... **$55.99**
HSR-RSS-2 Stainless Steel "Resonator" Impact Spring **$40.99**
HSR-MBM Super Magnetic Mount, 16' Coax, 3/8"-24 Antenna **$55.99**

Mobile HF and VHF/UHF Antennas

α ALPHA® ANTENNA

New!

ALP-HFMOBILE



MOTO EmComm Mobile HF Vertical Antenna

This is a rugged and versatile choice for both mobile and stationary operations. Features include 40-6M coverage; easy band changes with no need for physical adjustments; a power rating of 100W PEP SSB/50W CW/10W Digital or AM/FM; and solid construction for the rigors of POTA, SOTA, and other outdoor activations. Includes 5' stainless steel whip and AutoMatch unit with 3/8"-24 mounting bolt and SO-239 connector.

ALP-HFMOBILE MOTO EmComm Mobile HF Vertical Antenna, 40-6M **$300.00**

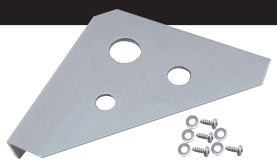
MilCom MOTO VHF/UHF Mobile Antenna

Made for quick deployment to establish local communications and for EmComm preparedness, this heavy-duty antenna covers 2M/70cm/33cm as well as MilCom frequency ranges of 125-190 MHz and 366.437-1016.437 MHz. The included 3.75" magnet mount ensures a reliable connection to the vehicle and proper vertical polarization, making it easy to use with mobile-to-mobile, base, or repeater configurations for high-efficiency and uninterrupted range. Also includes 16.5' RG58A/U coax with PL-259 connector.

ALP-VHFUHFMOBILE MilCom MOTO VHF/UHF Mobile Antenna **$200.00**

Truck Bed Mobile Antenna Mounting Plate

COMTEK SYSTEMS



New!

Ready for some mobile operating fun in your four-wheeled rig? This mounting plate fits securely in the corner of your truck bed, offering a stable and reliable platform for mobile antenna installations. Crafted from premium, high-quality aluminum, the 5" x 5" x 0.75" plate features pre-drilled holes to accommodate NMO, UHF, and 3/8" stud mounts, giving you the flexibility to use a wide range of antenna mount styles. Includes stainless steel hardware for a secure and rust-resistant installation. Antenna mounts are not included.

COM-TBMP-UHF Truck Bed Mobile Antenna Mounting Plate **$29.95**



2M and 10M Mobile/Base Antennas

FREQUENCY MEETS FIREPOWER FIRESTIK®

Antennas from Firestik provide users with quality components, simple tuning, low SWRs, and proven results. Antennas are made with a 3/8" solid fiberglass core, double-insulated 19 AWG copper wire conductor, and PVC covers with added UV and pigment stabilizers. Antenna bases are chrome-plated machined brass with 3/8"-24 threads for full compatibility with Firestik mounts and accessories. Choose from the 4' omnidirectional 2M-4 5/8-wave mobile antenna, which offers a low angle of radiation, average tuned SWR of 1.5-1 over 4 MHz, gain of 3 dB over 1/4 wave, and a 400W AM, 800 PEP rating. The 15" 2M-15-B and 17" 2M15S-B (with spring for added contact protection when mounted to a vehicle) have a patented tunable tip made from rust-proof brass that offers a wide tuning range. A base 2M 5/8-wave model (2M-CKB) comes with bracket and hardware for mounting to masts up to 1.5" in diameter. Also included are four aluminum radials that are pre-drilled for mounting to the hub plate. A 10M 5/8-wave model (TM4-B) also features a tunable tip. Firestik notes that mobile models are ground-plane-dependent antennas that require a metallic counterpoise to perform properly. **Enter "Firestik Antenna" at DXEngineering.com for more details.**

FAC-2M-4 2M Mobile Antenna, 4' **$31.99**
FAC-2M-CKB 2M Base Antenna Kit, 4', Mounting Bracket, Radials **$74.99**
FAC-2M15-B 2M Mobile Antenna, 15", Tunable Tip **$29.99**
FAC-2M15S-B 2M Mobile Antenna, 17", Tunable Tip, Spring **$42.99**
FAC-TM4-B 10M Mobile Antenna, 4', Tunable Tip **$35.99**

Firestik Accessories

FAC-AR-2 PL-259 to Motorola Pin Plug **$6.99**
FAC-K-4A Heavy-Duty Lug Terminal Stud Mount for 1/2" Hole **$10.99**
FAC-QD-259 Screw-On PL-259 to Quick-Release Push-On PL-259 ..... **$3.49**

Mobile Antenna Boom Bracket

CHELEGANCE JNCRadio



The JMount-01 is perfect for mounting a mobile antenna on a balcony or other outdoor location. The lightweight and portable stainless steel bracket includes 1/4" U-bolts and a UHF/SO-239 bulkhead-style connector. It comes with drilled plate, bracket, two saddle clamps, and hardware for easy and secure mounting.

NCE-CH0020016 JMount-01 Mobile Antenna Boom Bracket **$54.00**

CHELEGANCE JNCRadio



M-104 HF Four-Band Mobile Antenna Kit & Mounts

For flexible operations, the M-104 HF Four-Band (40/20/15/10M) Mobile Antenna Kit is a great way to get on the air fast and effectively. With the included 3/8"-24 threaded hex nut, the M-104 can also be used on 2M/70cm.

The kit includes four coils (one for each covered band) which can be easily attached to the provided telescopic whip (4.59' extended). Kit also includes antenna base; 4-10 and 4-16 ring terminals, and carrying box with foam insert. The M-104 is suitable for portable on-vehicle operation and is designed with adaptability in mind. It is easily mounted to any vehicle using a variety of available options, including roof, hood, or trunk. See below for suitable Chelegance mobile lip mount available separately. Kit contents are constructed with high-quality materials to withstand various outdoor conditions, including wind, rain, and UV exposure. Power handling is 50W PEP.

NCE-CH0030022 M-104 HF Four-Band Mobile Antenna Kit (40/20/15/10M) ... **$153.00**

Magnetic Grounding Mat and Lip Mount for M-104

The MAT-50 HF Magnetic Grounding Mat is designed to be attached to the roof or metallic parts of a vehicle, providing effective grounding for vehicle-mounted HF mobile antennas. This reduces SWR, enhances reception, and lessens noise. The stainless steel BT60 lip mount for HF M-104 mobile antennas gives you the flexibility to mount in your desired location, including trunk lid, hatchback, hood, and more. It features a silicone pad to prevent scratching the vehicle's paint when installed.

NCE-CH0030022-P1 MAT-50 HF Mobile Antenna Magnetic Grounding Mat **$48.00**
NCE-CH0030022-P2 BT60 Mobile Antenna Lip Mount for M-104 ..... **$42.00**

For new hams, check out our Getting Started HT, Mobile, and Base Radio Packages!

⚠ WARNING: For Proposition 65 information, see p. 3

DX ENGINEERING

Mobile Whip Antenna

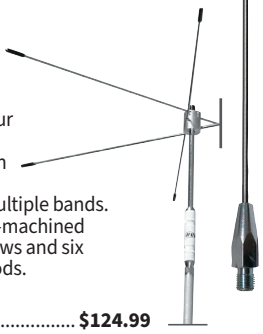
DX Engineering's WP-102 is the classic 102" whip, perfect for 10 meter operation. It's made from heat-treated 17-7 PH tapered stainless steel, which resists bending and kinking, while providing good corrosion resistance and minimum distortion. The WP-102 is ideal for mobile and portable operations and for Active Receive Antenna Systems. It's also great for use with mobile antenna tuners. The whip features a 3/8"-24 stud mount.



DXE-WP-102 Mobile Whip Antenna, Tapered, 1-Piece, Stainless Steel, 8.50' Length, 3/8"-24 Stud **$49.99**

DX ENGINEERING

Hot Rodz® Capacity Ha Hustler Mobile Antennas

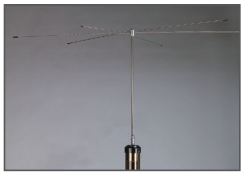


This fully adjustable system attaches directly to your Hustler HF antenna. Hot Rodz improves efficiency, allowing the use of a smaller loading coil for a given frequency band. Other benefits include wider bandwidth and the ability to use a single coil on multiple bands. The Hot Rodz Capacity Hat comes with a precision-machined 6061-T6 aluminum hub with stainless steel set screws and six each of 6 inch, 12 inch and 24 inch stainless steel rods.

DXE-HR-1P Hot Rodz Capacity Hat for Hustler Mobile Antennas **$124.99**

DX ENGINEERING

Hot Rodz® Capacity Hat for Screwdriver Antennas

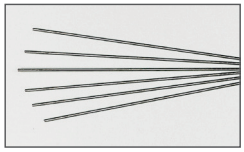


This fully adjustable system attaches directly to any screwdriver antenna. Hot Rodz allows you to remove the long whip from your antenna while increasing efficiency, so you can use less coil for any given frequency. The Hot Rodz Capacity Hat comes with a 22 inch tall mast, and six each of the 6 inch, 12 inch and 24 inch stainless steel rods.

DXE-HR-2P Hot Rodz Capacity Hat for Screwdriver Antennas..... **$121.99**

DX ENGINEERING

Hot Rodz® Capacity Hat Components



Increase the efficiency of your own shortened antenna by building your own Hot Rodz Capacity Hat system. Visit DXEngineering.com for complete details.

DXE-HRHUB-1P	Hot Rodz Hub, Smooth Bore with Set Screws	**$32.99**
DXE-HRHUB-2P	Hot Rodz Hub, Threaded Bore	**$35.99**
DXE-RODZ-48P	Hot Rodz 48" Stainless Steel Rods	**$31.99**
DXE-RODZ-36P	Hot Rodz 36" Stainless Steel Rods	**$27.99**
DXE-RODZ-60P	Hot Rodz 60" Stainless Steel Rods	**$31.99**
DXE-RODZ-72P	Hot Rodz 72" Stainless Steel Rods	**$33.99**

SkyScan VHF/UHF Receive Scanner Antennas

MOONRAKER



With an RX frequency range from 25-2,000 MHz, this omnidirectional, discone-style, vertically polarized antenna makes a solid choice as a desktop scanner or for SWL. The SkyScan measures 27.56" tall and comes with magnetic base for use on a stationary vehicle. It also includes 13' of RG-58 coaxial cable installed on the base with a BNC male connector on the receive end. Not for use on moving vehicle.

MKR-11-533 VHF/UHF Desktop Scanner Antenna **$153.99**

SkyScan VHF/UHF Mobile Receive Scanner Antenna

This antenna features four different length elements tuned for specific frequency ranges from 25-2,000 MHz. The 25.6" tall antenna comes with 3.5" magnetic mount with rubber base padding to protect your vehicle, along with 13' of RG-58 coaxial cable with BNC connector on one end.

MKR-12-202 VHF-UHF Mobile Scanner Antenna..... **$62.99**

Preamplifiers for Scanners/Receivers

MOONRAKER



Get the most out of your scanner or receiver with these well-built wideband preamplifiers from Moonraker. The MKR-20-000 model (MRP 2000) covers 25-2,000 MHz and has a preamplifier gain from 6 to 20 dB. The MKR-20-001 version covers 24-2,300 MHz and features a variable gain control (-10 to +22 dB), and switched band pass filters to minimize interference. Units come with BNC connectors and patch cable. Preamps can be powered by required internal 9V battery or VDC supply.

MKR-20-000 25-2,000 MHz Scanner Preamp..... **$82.99**

MKR-20-001 24-2,300 MHz Scanner Preamp with Gain Control..... **$109.99**

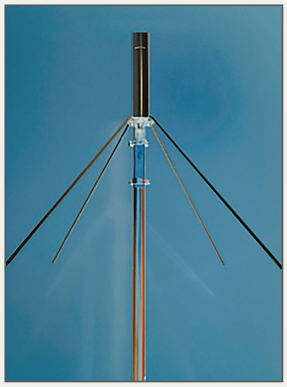
COMPACtenna



CAN-2M-440PLUS



CAN-220MAX



CAN-COUNTERPOISE

COMPACtenna

DX Engineering is pleased to carry COMPACtenna's line of small, multi-band antennas (7" to 20" tall) designed for high performance on a small 3' x 3' metal ground plane with no tuning required of the antenna. Small enough to fit in the attic, a closet or outside without drawing attention, they're a smart choice for HOAs, condos, apartments, or anywhere you—or your neighbors—don't want large antennas. Mounted on vehicles, these antennas can provide easier passage into a garage or drive-thru. Choose from single-band, dual-band, tri-band and scanner antennas. The SCAN-III antenna (100-1,500 MHz) is optimized for public service-safety and government frequency bands. The Ultimate 220 MHz Antenna (CAN-220MAX) offers maximum gain, higher power handling, and low SWR.

CAN-220MAX	Ultimate 220 MHz Antenna, 9" Tall, 65W	**$199.00**
CAN-2M-220-440	2M/220/440 Tri-Band Antenna, 7" Tall	**$199.00**
CAN-2M-440	2M/440 Antenna, 7.5" Tall, 85W 2M; 50W 70cm	**$186.00**
CAN-2M-440PLUS	2M/440 Antenna, 9" Tall, 100W 2M; 75W 70cm	**$199.00**
CAN-SCAN-III	Police/Fire/Government Optimized Antenna, 9" Tall	**$199.00**

CompacCounterpoise NMO Mount Base Station Ground Planes

These kits turn your COMPACtenna antennas into sturdy and stealthy base stations. Add the provided radials to optimize signals and SWR for UHF/VHF operation, with a maximum power rating of 250 watts (up to 225 MHz) and 100 watts on higher frequencies. Kits come with 3" diameter mounting plate with mast bracket, clamps, four 18" radials, and stainless steel hardware. They work with many monoband or multi-band NMO-mount antennas, including COMPACtenna's 2M-440, 2M-440PLUS, 2M-220-440, SCAN-III, and the LMR-I Land Mobile Radio Antenna.

CAN-COUNTERPOISE	SO-239, Mounts Antennas from 144-512 MHz	**$199.00**
CAN-COUNTERPSE-N	N Female, Mounts Antennas from 144-1,000 MHz	**$209.00**

LMR-I Land Mobile Radio Antenna



The high-performance, low-profile LMR-I Land Mobile Radio Antenna provides coverage of three optimized frequency ranges: High VHF 136-174 MHz, Low UHF 378-512 MHz, and High UHF 750-960 MHz. With a power rating of 100W VHF/75W UHF and omni-directional coverage, this 9" tall cylindrical radome-style antenna makes a great choice for analog and digital operation modes for Police, Fire, Sheriff, Emergency Medical, State Highway Patrol, Homeland Security, U.S. Federal, Military and Business-Commercial applications. It features a leaf-spring style NMO mount base for standard center-stud style NMO mobile mounts. It may be mounted on a vehicle, or it can be used for base station/repeater operations by adding an optional COMPACtenna CompacCounterpoise.

CAN-LMR-I Land Mobile Radio Antenna **$239.00**

Gaskets & Super Lube Packs

Combo includes two high-quality EPDM gaskets for replacing the flat gaskets that come with COMPACTenna mobile NMO antennas. It also comes with two tubes of dielectric grease to maintain good conductivity between NMO mount threads and the antenna.

CAN-GASKET-NM 2 Gaskets/2 Lube Packs for Mobile NMO Antennas **$20.00**

JMount-336 Triple Magnet Mount Antenna Mount

CHELEGANCE JNCRadio New!



This mount features a spring-loaded tri-magnet base with three powerful 3.5" magnets, ensuring a secure grip on your vehicle—even on curved surfaces. Designed to absorb shocks for stable antenna performance, the mount features smooth, rounded edges for abrasion-free installation and a premium finish that both looks good and provides corrosion-resistance. The CH0012502-M mount only includes the triple magnet base and requires pairing with an appropriate antenna mount. The CH0012502-P1 adapter fastens directly to the JMount-366 base and lets you mount M10 threaded antennas and accessories. The CH0012502-P2 heavy-duty adjustable antenna mounting bracket can be fastened directly to the JMount-366 and other antenna mounting bases.

NCE-CH0012502-M	JMount-336 Triple Magnet Antenna Mount	**$84.00**
NCE-CH0012502-P1	M10 Threaded Stud for JMount-336	**$18.00**
NCE-CH0012502-P2	JMount Adjustable Antenna Mounting Bracket	**$18.00**
NCE-CH0012502KIT	Tri-Magnet Mount for 3/8"-24 Threaded Whip Antennas	**$99.99**

We stock many more items than we can show. See them all at DXEngineering.com!

⚠ **WARNING:** For Proposition 65 information, see p. 3

How to Order from DX Engineering:

- Online at www.DXEngineering.com
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Freight, Shipping and Handling Policies

Your order ships fast via standard ground shipping. In-stock parts typically ship the same day when you order by 9 pm ET, Monday-Friday.

Note: We will verify all credit orders for your protection. In some cases, this process may cause a slight delay in shipping.

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We offer free shipping on qualifying orders. Shipping and handling on domestic and APO/FPO orders is based on order subtotal and is non-refundable. For current shipping and handling rates, visit the Help Center at DXEngineering.com.

Oversize items: An oversize fee applies to select items (due to size and/or weight) as indicated at DXEngineering.com.

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In-stock parts: Order of in-stock parts typically arrive in 1-5 business days via standard ground service in the contiguous 48 states. Exact order-by time is subject to shipper availability. Visit the Help Center at DXEngineering.com for more information about order status and tracking, plus Next Day Air and Saturday Delivery options.

Domestic Non-Standard Shipping Options:
Rates for Next Day Air, 2-Day Air, 2-Day Air Saturday, and Next Day Air Saturday (where available) are listed in the online Help Center at DXEngineering.com.

Sales Tax

DX Engineering collects and remits sales tax based on state and local requirements. Prices are subject to change without notice. Occasionally, prices increase or decrease after a catalog is printed. For the most up to date pricing and in-stock status, visit DXEngineering.com.

If you have any further questions, please send us an e-mail at DXEngineering@DXEngineering.com, call us at 1-800-777-0703, or visit the Help Center at DXEngineering.com and search for "prices."

About Backorders

For customers in the continental U.S. and all U.S. territories: in-stock parts usually ship immediately. Most backordered parts ship as they become available, which may result in multiple shipments for a single order. You will be charged for in-stock parts and parts that dropship directly from our supplier when they are ordered. Visit the online Help Center at DXEngineering.com or ask your sales rep for payment information and more details. International information listed above.

Ordering Details

We cannot ship to a P.O. Box in the contiguous 48 United States. **APO/FPO** orders can only ship via U.S. Postal Service and must be pre-paid by a check or credit card. Truck Freight, Hazardous Materials, and some oversize items cannot be shipped to APO/FPO addresses.

HI, AK, PR, and U.S. Territory
Shipping and handling is based on the method selected. See the options and fees at DXEngineering.com or call us. Shipping and handling is non-refundable.

International and Canadian (outside of the U.S. or U.S. Territories): Order at DXEngineering.com or call 1-330-572-3200. Shipping and handling is based on carrier selection and destination. If an item is backordered, your item will be held until ALL items are in stock. Obtain quotes at DXEngineering.com or contact us at International@support.DXEngineering.com. Shipping and handling is non-refundable. If you choose a Landed Cost Delivery provider, all duties, taxes, and clearance fees are included at checkout. Otherwise duties and taxes will be billed to you by the shipping company at the time of delivery. Visit the online Help Center at DXEngineering.com or ask your sales rep for more details.

Product Warranties

DX Engineering Products
All products manufactured by DX Engineering are warranted to be free from defects in materials and workmanship for a period of one (1) year from date of shipment.
DX Engineering's sole obligation under this warranty shall be to issue credit, repair, or replace any item or part there of which is proved to be other than as warranted. No allowance shall be made for any labor charges of buyer for replacement of parts, adjustments or repairs, or any other work, unless DX Engineering authorizes such charges in advance. Repairs to DX Engineering-produced items are warranted for a period of 90 days against defects in materials and workmanship. Repair or replacement is at DX Engineering's discretion.

Other Manufacturers
Most manufacturers offer their own warranties. All warranties are included with your order. Some manufacturers require their products to be sent directly to them for warranty consideration—before returning any product from another manufacturer, contact us by e-mail or by phone at 1-800-777-0703.

If you want to return any electrical products for warranty consideration, please e-mail us before shipping the items back. We will determine if a warranty claim is valid and where the part needs to be sent. You can also call 1-800-777-0703 to speak to a Customer Service representative. Any item which, in our opinion, shows evidence of being used or installed contrary to manufacturer's instructions, and/or subjected to improper handling, packaging, or shipping by the customer will not be eligible for exchange, refund, or warranty consideration. We reserve the right to charge a restocking fee or refuse any item.

We cannot accept returns on custom-ordered parts. Software or publications cannot be returned for a refund once opened.

Protection Plan

The DX Engineering Protection Plan provides coverage beyond the manufacturer's warranty.* It includes:

Mechanical or electrical failure coverage—For failures caused by breakdown or power surge.

Coverage for product defects—We'll get you back up and running quickly if your product is defective in materials or workmanship.

Hassle-free product replacement**—If your product stops working due to a covered breakdown, we'll replace it quickly and conveniently.

No deductibles or service fees—With this plan, there's no additional out-of-pocket expenses.

*For transceivers and receivers, coverage begins after the manufacturer warranty expires. For all other products coverage begins 31 days after your product purchase date or ship date, whichever is later. The plan provides 1, 2, or 3 years of coverage depending on the length of coverage purchased. **The replacement product may be in the form of merchandise credit, not to exceed the maximum coverage per claim. Replacement, merchandise credit, or settlement fulfills the contract in its entirety. See terms and conditions for complete details, including exclusions, limitations, and providers. The protection plan provider is Federal Warranty Service Corporation in all states except in Oklahoma, where the provider is Assurant Service Protection, Inc. These companies operate under the trade name Assurant®.

Repairs

We can, in most cases, perform repair service on out-of-warranty DX Engineering, Butternut, COMTEK, Top Ten Devices, Hi-Z, RigExpert and TopTek branded products. The cost of repairs is based on labor rate of $89.00 per hour, and the total cost is estimated before repair work is started. 4O3A, ACOM, microHAM, OM Power, and RM Italy repairs will be conducted by our Authorized Service Providers at a cost deemed by them. Contact DX Engineering Customer Service to discuss the repairs needed and to receive shipping instructions.

Returns

DX Engineering does not have a trial or evaluation period for new equipment. However, if you're not satisfied within 10 days of receiving your purchase, contact our Customer Service/Technical Support department to discuss your options. A purchase may be returned for a full refund within 10 days of receipt providing that the original manufacturer's package is unopened, or is in as-new condition, and is undamaged. Items that you have opened and returned may be subject to a restocking or repackaging fee.

DX Engineering **recommends that you insure your return shipment.** After inspection and verification of the returned items' condition, DX Engineering will send the purchaser a refund or issue credit to the original payment method used for the purchase—for the full amount of the merchandise less a nominal shipping charge. Shipping charges, insurance, and oversize fees are ***not*** refundable. If it has been greater than 10 days since you received your order, the manufacturer's warranty will apply, and no returns will be accepted.

Exceptions: Any products that are personalized or special-ordered cannot be returned or exchanged.

Batteries (individual cells or battery packs), videos (any format), software, cut-to-length cable, custom-made cable assemblies, and copyrighted materials (books, publications) are ineligible for refund or exchange. Personal use items—microphones, headphones, earphones, and all clothing items—are non-returnable/non-refundable.

If a return is necessary, you must ship your return postage-paid and insured to:

DX Engineering ATTN: Returns Department
3800 Mogadore Industrial Pkwy.
Mogadore, OH 44260 USA

Include a copy of your receipt and a note explaining the reason for your return. Items without documentation may be sent back to you.

DX Engineering reserves the right to make exceptions to the above return policy depending upon specific circumstances.

Liability Statement

DX Engineering's liability for losses or damages, arising out of any cause whatsoever, is limited to full refund of the purchase price or, at our option, repair or replacement of the part(s). DX Engineering shall not be liable for any consequential or incidental damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Our products are not designed or intended for use in or on aircraft of any kind whatsoever. **Note: We reserve the right to limit quantities.** If you have any further questions, please send us an e-mail at DXEngineering@DXEngineering.com or contact us at 1-800-777-0703.

Contact Us to Take Advantage of Our Beat-A-Price Guarantee

You'll get more than a price match. We'll BEAT the advertised final price from most domestic competitors on an identical, in-stock product upon verification!

To qualify, proof of the advertised item's final price is required; the part must be in-stock at the advertised location; advertised final price includes all shipping, handling, or any other "to-the-door" costs; and the seller must be an authorized dealer.

Restrictions: This policy does not apply to typographical errors; products in an online auction; third-party sellers; closeouts; damaged or "open box" items; discontinued, clearance, or liquidation items; refurbished or used products from a second-hand seller; wholesale, membership, or club pricing; fraudulent websites; a competitor's price that results from a price match; extended warranties or protection plans; or previous promotional pricing or previous manufacturer offers. We reserve the right to refuse Beat-A-Price for any reason. All pricing is subject to change at any time.

Prices are subject to change without notice.

⚠ **WARNING:** For Proposition 65 information, see p. 3

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DX ENGINEERING

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CLIFTON LABORATORIES TOP TEN DEVICES, Inc. telrex

DX Engineering Family of Brands

DX Engineering has been committed over the years to acquiring popular amateur radio brands to ensure that widely regarded products would still be available to the amateur radio community. The DX Engineering Family of Brands includes Butternut Antenna, Cycle 24, Clifton Laboratories, Comtek, Top Ten Devices, Telrex, TransWorld Antennas, and most recently, Hi-Z Antennas and KD9SV Products.

HI-Z Antennas KD9SV Products

Hi-Z® Antennas and KD9SV Products

DX Engineering is working toward full production and advanced testing of selected Hi-Z devices. The current research and development process will significantly advance the durability and efficiency of the high-performance Hi-Z Antennas Triangular, Four-Square, and Eight-Circle Receive Array Systems.

DX Engineering will be reintroducing selected KD9SV-inspired devices for low-band reception and station operation —designed by Gary Nichols, KD9SV — in the months ahead. See page 43 for the new KD9SV Keying Relay and visit DXEngineering.com for news and availability of specialized items as they are developed, including Reversible Beverage-On-Ground systems and 160/80M preamps.



COMET

HT Antennas

Maximize your HT or scanner performance. Comet's HT antennas offer significant gain improvements over your original antenna and are super-rugged, making them perfect for use in the field. Many have extended receive capabilities—visit DXEngineering.com for all of the specs. Available in multiple connector types, sizes and band coverage, Comet Antennas are excellent replacement antennas for your scanner or HT.

Part Number	Description	Length	Gain	Price
CMA-SMA-24	Dual-Band, Flexible, SMA Male, 20W Power Rating	15.75"	2.1 dBi (2M) 3.5 dBi (70cm)	**$28.95**
CMA-SMA-24J	Dual-Band, Flexible, SMA Female, 20W Power Rating	17"	2.1 dBi (2M) 3.5 dBi (70cm)	**$28.95**
CMA-SMA-503	Dual-Band, Flexible, SMA Male, 10W Power Rating	8.5"	—	**$30.95**
CMA-SMA-503J	Dual-Band, Flexible, SMA Female, 10W Power Rating	8.5"	—	**$30.95**
CMA-BNC-24	Dual-Band, Whip, BNC Male, 20W Power Rating	17"	2.1 dBi (2M) 3.5 dBi (70cm)	**$29.95**

COMET

Dual-Band HT Antennas





This SMA-209 3" stubby-type SMA male antenna for 2M and 70cm offers the convenience of a short antenna with reliable performance for many handhelds from leading manufacturers, such as Icom, Yaesu, Kenwood, and Alinco. Covered with a flexible rubber sleeve, the lightweight "rubber duck" antenna handles up to 5W of power, and its unobtrusive stature makes it ideal for easy walking and talking wherever you take your HT rig. It's also available with SMA female connector (SMA-209J). The ultra-compact dual-band 10W CH-32 (BNC male) and SMA-501 (SMA male) models measure 1.75". These models all make great choices for enhancing your HT's scanner operations.

CMA-SMA-209 Dual-Band Stubby HT Antenna, 3", SMA Male..... **$18.49**
CMA-SMA-209J Dual-Band Stubby HT Antenna, 3", SMA Female ... **$18.49**
CMA-CH-32 Dual-Band Stubby HT Antenna, 1.75", BNC Male... **$38.49**
CMA-SMA-501 Dual-Band Stubby HT Antenna, 1.75", SMA Male... **$34.49**

COMET

HT Dual-Band MURS/GMRS Whip Antennas



These flexible, lightweight whip antennas have been designed to operate on GMRS (462-468 MHz) and MURS (151-155 MHz) frequencies, specifically for the recreational off-road and overland markets. They can handle up to 20W of power and offer antenna gains of 2.15 dBi for VHS/MURS (1/4 wave) and 3.4 dBi for UHF/GMRS (5/8 wave), per the manufacturer.

CMA-SMA165 Whip Antenna for MURS/GMRS, SMA Male **$30.95**
CMA-SMA165J Whip Antenna for MURS/GMRS, SMA Female..... **$30.95**

MOONRAKER

MRW-HF100 HF Base Loading Coil & Antenna Pack



Moonraker offers this excellent all-in-one solution for multiband portable operations. The pack contains a set of 50W quarter-wave base loading coils covering 40/30/20/17/15/12/10/6M. Each coil is labeled to make it simple to find the band you need. The kit comes with a telescopic element that can be extended from 7" to 53" and easily screws onto your chosen coil. Coils are terminated with a BNC-P (plug) connector, making it simple to connect to most portable transceivers. The provided manual provides suggested element lengths per band. Moonraker lists gain at 2.15 dBi and VSWR at less than 1.5. Just tuck this kit into your backpack and you're ready to go portable!

MKR-13-203 Set of 8 HF Base Loading Coils, Antenna Element. **$259.99**

To take advantage of our Beat-a-Price Guarantee, please Contact Us!



DIAMOND ANTENNA

HT Antennas

The rubber duckie antenna packaged with your HT may be keeping your handheld from operating at its full potential. Knowing this, Diamond Antenna brings you dual and triple band antennas that offer better performance. As proof, Diamond rates its antennas against the original HT manufacturer's antenna to show you a relative gain improvement over your HT's (or scanner's) stock performance.

Whether you want a simple replacement for a broken HT antenna or you are looking for significantly improved reception, Diamond Antennas has a solution.

Part Number	Description	Length	Gain	Price
DMN-RH77CA	Dual-Band, Flexible, BNC Male, 10 W, Extended Receive to 900 MHz	15"	6 dB	**$22.99**
DMN-RHF40	Dual-Band, Flexible, BNC Male, 10 W, Extended Receive to 900 MHz	16"	6 dB	**$27.99**
DMN-SRH519	Dual-Band, Flexible, SMA Male	7.75"	3 dB	**$26.99**
DMN-SRH77CA	Dual-Band, Flexible, SMA Male, 10 W, High Gain & Extended Receive to 900 MHz	15"	6 dB	**$22.99**
DMN-SRJ77CA	Dual-Band, Flexible, SMA Female, 10 W, Extended Receive to 900 MHz	15"	6 dB	**$24.99**
DMN-SRHF40	Dual-Band, Super-Flexible, SMA Male, 10 W, Extended Receive to 900 MHz	16"	6 dB	**$26.99**
DMN-SRH320A	Tri-Band, Flexible, SMA Male, 10 W Power Rating	13.75"	4 dB	**$46.99**
DMN-SRH789	Dual-Band, Scanner Antenna, Telescopic, SMA Male, 10 W, 85-300 MHz and 300-1100 MHz	31.7"	—	**$33.99**

DIAMOND ANTENNA

HT Antenna Adapters


DMN-SMAJ-SMAJ


DMN-BNCJ-SMAP

Upgrading your HT with a new antenna may require an adapter. Diamond Antennas comes through with a line of adapters well suited to handheld use. DX Engineering carries a wide range of adapters for practically every Ham Radio application. Type keyword "Adapter" into the search box at DXEngineering.com to see more.

Part Number	HT Connector	Antenna Connector	Price
DMN-BNCJ-SMAP	SMA Male	BNC Female	**$9.99**
DMN-BNCP-SMAJ	BNC Male	SMA Female	**$9.99**
DMN-SMAJ-SMAJ	SMA Female	SMA Female	**$9.99**



ALINCO

Remtronix Flexible HT and Scanner Whip Antennas

From the handheld transceiver experts at Alinco comes two new whip antennas that provide a substantial range improvement over factory standard portable handheld radio and scanner antennas. Choose from the 8" rubber VHF/UHF/800 MHz antenna with BNC male connector or the 8.5" rubber VHF/UHF/800 MHz antenna with SMA male connector. Features include 5W power rating, flexible whip rubber ducky design, and excellent performance with handheld scanners and HTs.

ALO-REM-842B VHF/UHF/800 MHz Whip Antenna, 8", BNC Male..... **$31.00**
ALO-REM-842S VHF/UHF/800 MHz Whip Antenna, 8.5", SMA Male..... **$31.00**

DUOSAT Handheld Portable Satellite Antenna



EAntenna's dual band DUOSAT antenna has been designed for effective handheld portable satellite operation. Weighing only 800 grams, it features 3 LFA elements in VHF and 5 LFA elements in UHF, low noise, and 144-146 MHz (VHF)/432-438 MHz (UHF). Made from sturdy aluminum with stainless steel fittings, the DUOSAT closed loop LFA antenna has been precision-engineered to deliver maximum gain and efficiency. Duplexer not included.

EAN-R2010254 VHF/UHF LFA Yagi, DUOSAT Antenna **$201.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3



Smart Antenna Control Consoles

Operate your multi-input, multi-output Hamplus Antenna Switch system using these consoles, one at each radio position. It won't matter whether your transceiver positons are together in a contest station or far apart in separate radio shacks in different rooms! These Memory Band Decoder control units connect directly with Elecraft, Icom, Kenwood and Yaesu rigs for antenna automation and easy switching between radios. Push-buttons and LEDs indicate manual or automatic antenna selections. They allow for split operation, using a separate transmit and receive antennas. A simple "one-radio-per- antenna" system and hot switch safeguards protect radios/antennas from damage. They require no PC or software, and work with all Hamplus rotator and antenna switches. Consoles support multi-controller, multi-Rotator Switches for memorization of antenna rotator selections. Optional two-way switch units make it possible to control up to 16 antennas by piggybacking two Smart Antenna Control Consoles per operating position. The HPY-MBD-8G comes with band data output, bandpass filter control output, and Waller Flag receive antenna control ports.

HPY-MBD-8G MBD Remote Control Unit, for 8 Antennas, with Added Outputs/Ports **$469.99**

HPY-MBD-12F MBD Remote Control Unit, for 12 Antennas **$659.99**

HPY-SW-02 Serial Port Splitter Switch for MBD-8..... **$79.99**

2 Inputs to 1 Output Antenna Switch Relay Units



These remotely controlled units work with two 8-port antenna switches to expand to 16 antennas. Boasting 3,000W PEP power handling and DC to 60 MHz coverage, they feature SO-239 RF connectors and DB-9F for remote control. Port isolation is 38 dB at 30 MHz. The ASR-21 model lets you expand from 4 to 8 rotators.

HPY-AS-21 2 Input/1 Output Antenna Switch Relays **$259.99**

HPY-ASR-21 2 Input/1 Output Antenna Switch Relay w/Rotator Expansion **$267.99**

Transceiver Radio Interface Cables and Control Cable Assemblies





These cables for Icom, Yaesu, Kenwood, Elecraft, and Flex rigs are necessary to complete the connection of each smart Remote Control Console or Desk Antenna Switch with its transceiver. Choose based on your radio/interface model. Control Cable Assemblies connect Hamplus Smart Antenna Control Consoles with Antenna Switches. **Pricing for interface cables from $55.99 to $77.99. Enter "HPY Interface" at DXEngineering.com for more details.**

Control Cable Assemblies			
HPY-CC-10M	10 Meters Long	MBD-8/12 to AS82-AS1206	**$65.99**
HPY-CC-15M	15 Meters Long	MBD-8/12 to AS82-AS1206	**$79.99**
HPY-CC-20M	20 Meters Long	MBD-8/12 to AS82-AS1206	**$119.99**

Automatic Remote Antenna Switch System for 6 Antennas, 3 Radios



The new AS-61WL antenna switch unit comes with a separate indoor control console (RC-603WL) featuring easy-to-use push-button controls for quick selection of six antennas and up to three radios. The RF-capable control console also allows for the insertion of a linear amplifier, wattmeter or both. Any length of 50 Ω cable connects between the two units to carry full power RF and commands. The control console is an intelligent band decoder with antenna selection memory. It features automatic band memory operation with compatible transceivers including Elecraft K3 (RS-232), Kenwood (RS-232), Yaesu CAT (RS-232) and Icom (CI-V); operation from 1.5 MHz to 60 MHz; maximum 0.1 dB insertion loss; and the ability to handle 2,500 watts PEP. Provides non-simultaneous six-antenna operation to one of three radios. All antennas and radios are switched to ground when not in use. SO-239/UHF female connectors.

HPY-AS-61WL Automatic Antenna Switch, 6 Antennas/3 Radios..... **$917.99**

Coax Switches



These low-loss devices provide smooth switching between antenna systems. The two-position, 0 to 1000 MHz 18-041 model handles 2,500W maximum power with an insertion loss of 0.1 dB. The 21-400 two-position switch boasts a 1000 MHz range; 2kW (DC-30 MHz), 1kW (30-200 MHz), 500W (200-500 MHz), 250W (500-1000 MHz) power handling; and 0-500 MHz 0.05 dB/500-1GHz 0.10 dB insertion loss. The DC-800MHz 21-401 three-position switch has SO-239s, an insertion loss of less than 0.05 dB; and 0-30 MHz (1.5kW), 30-200 MHz (1kW), 200-500 MHz (500W), 500-800 MHz (250W) power handling.

MKR-18-041 2-position SO-239 Coax Switch, 1000MHz..... **$49.99**

MKR-21-400 2-position SO-239 Coax Switch, 1000MHz..... **$69.99**

MKR-21-401 3-position SO-239 Coax Switch, 800MHz..... **$109.99**

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RX Audite SDR Antenna Switch Controller



From longtime contester Jan Sustr, OK2ZAW, of QRO.cz, the RX Audite lets hams monitor the amateur radio bands with an SDR while simultaneously operating on one or more of those bands. This handy device (100 kHz-60 MHz; 200W transmit power handling) combines the functionality of a T/R switch, a receive antenna input, and a receive splitter with specialized switching. The transmit/receive main antenna can be shared with both outputs, transceiver and receiver (SDR) with RF power limiter protection. It's ideal for use with a separate SDR receiver for spectrum panadapter, WebSDR, or as a skimmer server to contribute spots to the Reverse Beacon Network. The device comes with an internal preamplifier. **Enter "Audite" at DXEngineering.com for more details.**

QRO-RX-AUDITEPRE RX Audite w/Internal Preamplifier **$509.99**

Antenna Switches





These excellent solutions for switching multiple antennas to multiple radios support 6, 8 or 12 antenna inputs and 1, 2, 4 or 6 radio outputs. They cover HF and 6M bands and handle full legal limit power with insertion loss of 0.1 dB. They allow one radio to access one antenna at a time. All antennas are grounded when not selected or when the system is powered off. These devices are typically operated automatically or manually with the illuminated push-buttons of the MBD-8E, MBD-8G or MBD-12F Smart Antenna Switch Control Units, one at each radio position.

The RC-12 Manual Control Unit comes with rotary knob and LEDs to indicate antenna selection. They operate any of the remote antenna switches and can also be used at each radio position.

Part Number	Radio Inputs	Antenna Outputs	Max. SWR	Price
HPY-AS-62	2	6	1.8:1	**$521.99**
HPY-AS-81S	1	8	1:7:1	**$359.99**
HPY-AS-82F	2	8	1.7:1	**$649.99**
HPY-AS-84F	4	8	1.7:1	**$1,726.99**
HPY-AS-86F	6	8	1.7:1	**$2,195.99**
HPY-AS-1202F	2	12	1.7:1	**$999.99**
HPY-AS-1204F	4	12	1.7:1	**$2,122.99**
HPY-AS-1206F	6	12	1.7:1	**$4,414.99**
Control Unit				
HPY-RC-12	Manual Control Unit for up to 12 Antennas			**$233.99**

Desktop Antenna Switches



Hamplus AS-603 Desktop Manual Switches feature six antenna inputs and three radio outputs for quick, one-at-a-time rotary switch selections. Hamplus AS-603A Desktop Smart Antenna Switches feature illuminated push-buttons, indications of six antenna inputs and three radio output selections. Built-in intelligent band decoder and antenna memory allows effortless automatic or manual antenna band switching. The AS-603A is compatible with popular Elecraft, Kenwood, Yaesu and Icom transceivers or any radio equipped with a BCD.

HPY-AS-603 Desktop Antenna Switch..... **$501.99**

HPY-AS-603A Desktop Smart Antenna Switch..... **$399.99**

HPY-AS-603AL Desktop Smart Antenna Switch, w/Amplifier Connectors **$475.99**

6-Antenna Smart Control Console



The MBD-62 provides intelligent control for up to six antennas and two radios. It's compatible with all Hamplus antenna switches and those from select other manufacturers. Suitable for use with the Hamplus AS-62 antenna switch, the controller features two band decoders; two outputs for triggering band pass filters; 16 general purpose outputs (eight for each radio); two manual and two automatic ways to select antennas; antenna memory capabilities, with 25 bands that cover from 100 KHz to 450 MHz; split antenna operation (one antenna transmits and one receives); software updates via USB; and more. The MBD-62 recognizes Icom CI-V, Yaesu and Elecraft BCD, and Kenwood, Icom and Elecraft RS-232 radios.

HPY-MBD-62 Smart Antenna Control Console, 6 Antennas/2 Radios.... **$489.99**

Pin to Pin Cables

HPY-CC62-5M For MBD-62 to AS-62 Antenna Switcher, 5 Meters Long **$39.99**

HPY-CC62-9M For MBD-62 to AS-62 Antenna Switcher, 9 Meters Long **$52.99**

HPY-CC62-15M For MBD-62 to AS-62 Antenna Switcher, 15 Meters Long ... **$69.99**

HPY-CC62-20M For MBD-62 to AS-62 Antenna Switcher, 20 Meters Long ... **$81.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

Antenna Genius 8x2 Plus Antenna Switch

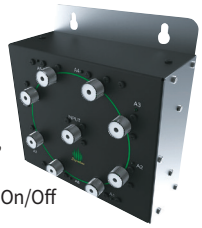


This switch accommodates up to eight antennas and two transceivers, making it an excellent choice for dual RX transceivers, single operator/two radio (SO2R) events, and multi-operator contesting stations. The unit is engineered for remote control via Local Area Network or Wide Area Network connections. Constructed of a rugged stainless steel chassis with a wall mount style flange on the top and bottom, the switch covers 160-6M and handles up to 3,000W SSB/CW (50 MHz should be limited to 800W for constant carrier modes such as FT8, RTTY). The capacity of usable antenna ports can be expanded to 16, 24, or even 32 by stacking two or more Antenna Genius 8X2 units, effectively creating a "Super-Switch." Other features include high port-to-port isolation; an integrated hardware-level interlock system that prevents both transceivers from connecting to the same antenna; user-programmable band ranges and a variety of control methods including Automatic Antenna Switching for FlexRadio transceivers; and SO2R operations with plug-and-play setup. The Antenna Genius has been designed for FlexRadio 6000 series transceivers but will work with most modern HF radios.

Enter "AG2X8" at DXEngineering.com for more details.

O3A-4O-AG8X2 Antenna Genius 8x2 Plus Antenna Switch **$950.00**

8-Antenna A/B Switches



Due to the popularity of its A/B switches, 4O3A engineered a super-switch containing eight A/B switches in a single box. With two Antenna Genius switches, it can form a high-isolation 8×4 antenna matrix for eight antennas to four radios. Available with either SO-239 "PL" or Type-N female connectors, the 8XAB switches feature 3,500W input power and isolation on unused port at 30 MHz: 56 dB-70 dB (On/Off status). **Enter "8XAB" at DXEngineering.com for more details.**

O3A-4O-8XAB-PL 8 Antennas to A/B Ports Switch, 3,500W, SO-239 Female; **$775.99**

O3A-4O-8XAB-N 8 Antennas to A/B Ports Switch, 3,500W, Type-N Female; **$775.99**

Antenna Genius 8x1 Switch

Usable from 160-6M up to 3,000W, the Antenna Genius Switch can switch eight antennas to one radio or amplifier and can be operated completely remotely. In addition to manual programming and the optional Controller Genius unit, users also benefit from an app for Windows, iOS and macOS, as well as integration into the operating system of FlexRadio transceivers. Other features include adjustable band limits, built-in Ethernet module for remote control via LAN or the Internet, and lifetime firmware updates. Requires 12-14VDC.

O3A-4O-AG8X1 Antenna Genius Switch, 8x1, 160-6M up to 3,000W **$839.99**

A50 Antenna Dummy Load Relay

The A50 switch is used as the 50 Ω load for open ports on 4O3A's HFC3000 combiner to prevent tuning degradation.

O3A-4O-A50-PL Antenna Dummy Load Relay, 12VDC, SO-239 ..... **$181.99**

4O3A Accessories

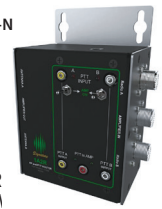
The high-isolation A/B Switch Relay is commonly used for routing an antenna between two existing antenna switches. Also available is the Manual Antenna Controller S8, an accessory for use with the Antenna Genius, Antenna Switch 8x2, or PS3000RX splitter.

O3A-4O-AB-PL Antenna A/B Switch Relay, 12VDC, SO-239..... **$181.99**

O3A-4O-MAC-S8 Manual Antenna Controller S8 for Antenna Genius **$59.99**

Signature 1A2R One Amp/Two Radio Switch

O3A-4O-AMP2R-N



The Signature 1A2R switch from 4O3A is an RF and PTT router which routes one amplifier between two radios. Switching is based on the PTT signal using the "first one wins principle." Users can disable the PTT switching for each radio independently by flipping a switch. Once connected, the amp is routed permanently and there is no need to rewire the setup. In case of failure while running SO2R you can switch the amplifier from radio B to radio A as a backup. The 3 kW rated device is available with SO-239 "PL" or Type-N female connectors.

O3A-4O-AMP2R-PL Signature 1A2R 1 Amp/2 Radio Switch, SO-239 ..... **$515.99**

O3A-4O-AMP2R-N Signature 1A2R 1 Amp/2 Radio Switch, Type-N **$515.99**

RS-3000 Coaxial Crossover Switch 2X2



O3A-RS-3000-PL

With the RS-3000 coaxial crossover switch, you can use amplifiers and antennas on demand in a flash by switching on two radios—a useful tool for SO2R and Multi-Single contesting. For example, when operating MS, you can use the RS-3000 to switch the in-band radio to temporarily borrow the bigger antennas and amps of the RUN station to break through a pileup and capture a coveted multiplier. Once you've got the multiplier, just switch back to the default configuration—just one of many uses for this handy device. Available with SO-239 or Type-N connectors.

O3A-RS-3000-PL Coaxial Crossover Switch 2X2, SO-239..... **$379.99**

O3A-RS-3000-N Coaxial Crossover Switch 2X2, Type-N..... **$389.99**

A/B Station Selector Interlocked Coaxial Relay



New!

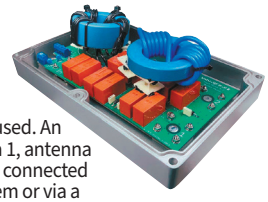
This device was designed for two-station multi-operator contesting from 160 through 10 meters, including SO2R setups. Two radio inputs and one output for an amplifier, antenna or another relay allow the A/B Station Selector to function as two interlocked SPST normally open contact coaxial relays when controlled by a user-supplied SPDT switch or automation. This device is critical for allowing only one radio to select an antenna while preventing the other radio from taking it away while transmitting.

Multiple A/B Station Selectors in combination with multi-port antenna switches and band decoders may be employed to create an automated band-specific antenna selector system. Two selectors may be configured as a DPDT reversing switch, useful for switching two stations to two towers or switching two transceivers to two amplifiers tuned to different bands or segments. The DX Engineering A/B Station Selector is a drop-in replacement for the legacy TopTen Devices unit. It features three UHF female/SO-239 connectors, Radio A, Radio B and Output. DC voltage input for each port selection relay is 12-14VDC. It features excellent port-to-port isolation, and low SWR and insertion loss. It's rated for full legal SSB and CW power for the 160-10 meter bands.

Enter "DXE AB Selector" at DXEngineering.com for more details.

DXE-AB-SELECTOR A/B Station Selector for Multi-Op Contesting..... **$199.99**

Stackmatch 1:2



The Stackmatch 1:2 is an easy-to-use device for connecting two antennas together to achieve more gain, a different direction, or a different elevation. The same or different antennas can be used. An external switch (not included) is used to select either antenna 1, antenna 2, or an interconnection of both antennas. Both antennas are connected either via a broadband, internally installed phase shifter system or via a narrowband external bypass line made of coaxial cable (not included). The interconnection of the two antennas results in different directional effects depending on the phase position (in phase, out of phase), as well as in the elevation. You can use the fast switching in a contest or in a DX pileup to receive a better signal and to fade out QRM. When transmitting, the transmit power can always be switched to both antennas or only to one antenna (e.g., to cover both local and distant areas simultaneously in a contest). This 1.8-30 MHz device is power rated at 3 or 5 kW (100% CW, SSB, and non-contesting RTTY; 75% for CW and SSB in contest mode; 50% for RTTY and FT8 contesting).

QRO-SM1-2-H Stackmatch 1:2 Antenna Connecting Unit..... **$559.99**

6:2 MK2 Classic Antenna Switch



With six antenna output connectors that can be switched to two amplifier or transceiver inputs, the 6:2 MK2 covers a wide frequency range from DC-60 MHz. Designed for 3 kW continuous power and 4 kW PEP (SWR < 1:1.7), the antenna switch has been successfully tested with high-power amplifiers from OM Power and others. Users can expect smooth operation; high isolation between ports to ensure signals remain clear and interference-free; minimal insertion loss; easy integration into existing systems; positive DC voltage control via either 2 x 6 wires or 2 x BCD; and high-quality construction including weatherproof aluminum housing, 2mm-thick RF PCB, and robust mounting bracket for masts up to 2" in diameter.

QRO-6T2RFS 6:2 MK2 Classic Antenna Switch, 4,000W, SO-239..... **$699.99**

OLIIP Universal Controllers



These devices have 12 or 16 universal outputs that can be configured as either positive or negative output drivers. They offer a web-based, customizable user interface, beam map control, and compatibility with various systems such as NodeRed, Stream Deck, and others. The controllers have DC protection (electronic fuse) and a LAN connection with double common-mode filter and overvoltage protection. Only a LAN and DB15 (12 output) or DB25 (16 output) is required.

QRO-OLIIP12 12-Output Universal Controller..... **$258.99**

QRO-OLIIP16 16-Output Universal Controller..... **$271.99**

Enter "QRO Controller" at DXEngineering.com for more details about all QRO.cz controllers.

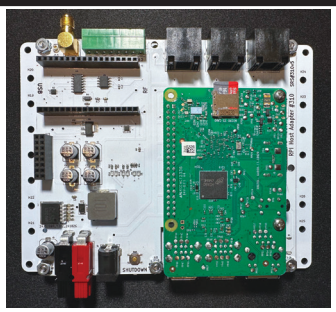
Clear the Air.

When Marconi first began experimenting with a spark gap transmitter, he didn't have to worry about RFI. Nowadays though, everything from household appliances to overhead power lines can pollute the radio spectrum. If you're dealing with unwelcome noise (QRN) in your shack, there are solutions. Check out the chokes, ferrite beads, noise finders and audio enhancers found in this catalog.

SIERRA RADIO SYSTEMS New!

Station Control Modules & Accessories

DX Engineering is pleased to be the exclusive global dealer (outside of Sierra Radio Systems) to carry these well-built and smartly engineered station control modules for managing remote HF stations, repeater infrastructure, and more.



Raspberry Pi and Host Adapter with RPI and SDR Card

The Raspberry Pi unit includes RPI adapter board with built-in power supply and DCN hub; Raspberry Pi 3 single board computer; SD card with the latest operating system, and Node Red Station Controller flow.

General Purpose Input/Out Module

This module is the heart of any remote station. It's typically used to turn station power on/off, measure critical voltages and temperatures, and control other devices. Includes four small signal SPST dry contact relays, four open collector outputs, 4 0-50V DC volt meters, and two digital temperature probe units.

4x1 or 1x4 Remote Coax Switch

This module switches one radio to four antennas or one antenna to four radios. The intended frequency range is 1-60 MHz covering 160-6M. Performance at 2M is lower but still usable for some applications.

1- or 2-Port RF Wattmeter

This wattmeter supports one or two active RF power monitoring sensors. Forward and reflected power is measured and reported to the dashboard. Multiple modes supported include periodic measurements, streaming data with < 1 second refresh rate, remote repeater keying, and monitoring.

Enter "SIR" at DXEngineering.com for more details on these products and other modules/accessories listed below.

SIR-310	Station Control Module & Raspberry Pi Host Adapter	**$230.00**
SIR-321	General Purpose Input/Output 18 Channel Module	**$230.00**
SIR-331	4x1 or 1x4 Remote Coax Switch	**$230.00**
SIR-335	1- or 2-Port RF Wattmeter	**$230.00**
SIR-361	Universal Relay Control Module (see pg. 4)	**$250.00**
SIR-462	1W 900 MHz Data Radio	**$120.00**
SIR-332	VHF/UHF Coax Switch, 100W, 1-500 MHz, N Connector	**$325.00**
SIR-356	DCN Power/Data Hub, Between Multiple Devices	**$29.00**
SIR-471	20A DC Power Relay Kit w/Powerpoles®, Assembly Required	**$29.00**
SIR-472	6A Slim DIN Rail Mount Relay	**$12.00**
SIR-421	LMR-195 Coax Cable, BNC to PL-259, 6'	**$29.00**
SIR-452	Digital Temp Sensor for General Purpose I/O Module	**$19.00**
SIR-300	Installation Kit for Sierra Station Control Modules	**$34.00**

ALPHA DELTA Radio Communications

Manual Antenna Switches



ALF-DELTA-4B-N ALF-DELTA-2B

Alpha Delta antenna switches have precision-machined, low loss components for reliable service. Grounded unselected antenna ports and ARC-PLUG™ lightning surge protectors provide the final line of protection. Rated at 1,500 watts max. up to 30 MHz.

ALF-DELTA-2B	2-Position Coax Switch, SO-239 Connector	**$119.99**
ALF-DELTA-2B-N	2-Position Coax Switch, N Connector	**$129.99**
ALF-DELTA-2B-TNC	2-Position Coax Switch, TNC Female Connector	**$139.99**
ALF-DELTA-4B	4-Position Coax Switch, SO-239 Connector	**$139.99**
ALF-DELTA-4B-N	4-Position Coax Switch, N Connector	**$149.99**
ALF-ASC-4B	4-Position Desk Console Switch, SO-239 Connector	**$209.99**
ALF-D4	Replacement ARC-PLUG	**$14.00**

Manual Antenna Switches

DAIWA

Perfect for switching one radio between two antennas (or two radios between one antenna), these rugged switches offer excellent isolation and auto-grounding of the unused terminal for extra protection.



DWA-CS-201A

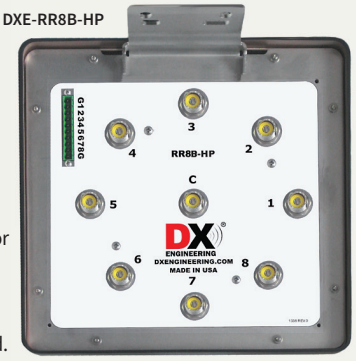
Daiwa's CS-2011GII has a frequency range up to 2 GHz, 50 dB of isolation at 1 GHz and an insertion loss below 1.2 dB at 1.2 GHz. Gold plated N connectors make for easy installation.

The CS-201A has a frequency range up to 600 MHz, 60 dB of isolation at 600 MHz and an insertion loss under .2 dB. This switch features SO-239 connectors.

DWA-CS-201GII	Manual Coax Switch, 2 GHz	**$71.95**
DWA-CS-201A	Manual Coax Switch, 600 MHz.	**$45.95**
DWA-CS-401	4-Position Manual Coax Switch, DC-500 MHz	**$149.95**

DX ENGINEERING

DXE-RR8B-HP



Remote Antenna Radio Switches

DX Engineering uses a symmetrical design in these switches to ensure excellent reliability and performance. Installation is easy too. Simply use the switch's external control cable connector to attach your CAT-5 cable to the controller in your shack.

These switches provide great SWR and superior port-to-port isolation—better than 60 dB for ALL ports, not just the best port. You'll see 70 dB (HP) and 60 dB (SD) in worse-case scenarios. That's the highest port isolation of all the major-brand coax switches we've tested.

They're fully RF-shielded with a UV-resistant cover, and have built-in lightning protection. The unused antenna ports can be jumpered for open control line with no disassembly or they can be easily shorted to ground.

High Performance (HP) and Severe Duty (SD) Options

The DXE-RR8B-HP uses 16 relays (2 per port) in a star arrangement to provide greater than 70 dB of port-to-port isolation. It is designed to switch coaxial lines in RF systems operating up to 5 kW continuous duty. The DXE-RR8B-SD is the largest switch in the RR8B series, designed to switch coaxial lines in high power RF systems up to 10 kW continuous duty.

Specifications

- Sealed RF Relays: 20 amps (HP), 25 amps (SD)
- Power Rating: (<2:1 SWR at 30 MHz): 7 kW ICAS/5 kW CCS (HP), 10 kW ICAS/CCS (SD)
- Control Voltage: 10-14 Vdc/100 mA (HP), 10-14VDC/160 mA (SD)
- Loss (HP): <0.03 dB below 60 MHz, <0.25 dB below 150 MHz
- Loss (SD): <0.03 dB below 30 MHz, <0.16 dB below 60 MHz
- Impedance: 50 Ω
- Control Line: 8-wire plus ground, #24 up to 1,000' (DXE-CW9S)

Single-Input 8-Port RF Switches and Console Combos

DXE-RR8B-HP	5 kW Key-Down Switch	**$549.99**
DXE-RR8B-HP-P1	5 kW Key-Down Switch with CC-8A Console	**$809.98**
DXE-RR8B-HP-P2	5 kW Key-Down Switch with EC-8 Console	**$739.98**
DXE-RR8B-SD	10 kW Key-Down Switch	**$599.99**
DXE-RR8B-SD-P1	10 kW Key-Down Switch with CC-8A Console	**$859.98**
DXE-RR8B-SD-P2	10 kW Key-Down Switch with EC-8 Console	**$789.98**
Accessories		
DXE-RLY-HP	SPDT 5 kW Sealed RF Relay, Board-Mount	**$12.99**
DXE-RLY-SD	SPDT DM/DB 10 kW RF Relay, Board-Mount	**$24.99**
DXE-CW9S	Shielded Control Wire, 9-Conductor Stranded	per foot **$1.59**

EC-4 4-Position Control Console

The DXE-EC-4 is a flexible, four-position controller used to control the DX Engineering Receive Four-Square series or any other product using a four-position (three wire plus ground) BCD control format. It features a powdercoated housing with an ON/OFF switch and green LEDs with scratchpad areas to mark the switch position function. It requires 12VDC for operation.



Additional Features:

- Stainless steel housing
- Non-skid feet
- Four green position-indicating LEDs
- An internal automatic resettable fuse
- Includes a 2.1mm power plug for +12VDC power connection

DXE-EC-4	4-Position Control Console	**$171.99**

CC-8A Deluxe 8-Position Control Console



The CC-8A is a flexible 8-position controller for DX Engineering RR8 Series Antenna Switches or any product that uses a 12/24VDC, 1-of-8 or BCD control format. The powdercoated metal housing features an on/off switch, ergonomic selector knob, and eight front-panel LEDs (with adjustable brightness) to indicate switch position. It has a stainless steel base plate and operates from a 12VDC or 24VDC source.

DXE-CC-8A	Deluxe 8-Position Control Console	**$259.99**

EC-8 8-Position Control Console



The EC-8 is a versatile 8-position controller for DX Engineering RR8A Series Antenna Switches, or any other product that uses a 12/24VDC, 1-of-8 control format. The powdercoated metal housing features an on/off switch with green power LED and an ergonomic selector knob with scratchpad areas to mark the switch position function. It has a stainless steel base plate and operates from a 12VDC source.

DXE-EC-8	8-Position Control Console	**$189.99**

DX ENGINEERING





Multi-Band High-Performance 43 Foot Vertical Antenna Packages With SAF-T-TILT™ Base

If you want to work DX, but don't have the real estate for an antenna farm, these packages are an excellent solution. They deliver exceptional multi-band performance with a compact size and attractive price. These easy-to-set up, easy-to-use packages cover the entire HF band, from 160 to 10 meters.

The rugged 43' antenna employs a free-standing, fast taper design that can survive winds up to 92 mph. It's made from 6063-T832 drawn aluminum and features stainless steel hardware for excellent corrosion resistance. Each package below includes the DX Engineering's exclusive patented SAF-T-TILT™ base, which lets you safely raise and lower your antenna for service.

The MBVE-5A antenna requires DX Engineering's UN-43 UNUN and a wide-range tuner. You'll also need 150' of RG-213 cable, sold separately. For optimum results, we recommend a good ground radial system (32 radials, each 32' to 65' long). You can get by with fewer radials with diminished performance.

We've created kits that bundle together some of the essential components. A brief summary is below; a comprehensive description of each combo is at DXEngineering.com.

DXE-MBVE-5A	Package, Antenna and Tilt Base	**$601.98**
DXE-MBVE-5A-4P	Package, Antenna, Tilt Base, Radial Plate, Hardware	**$744.64**
DXE-MBVE-5A-4UP	Package, Antenna, Tilt Base, UNUN, Mounting/ Connection Kit	**$846.95**
DXE-MBVE-5A-4UPR	Package, Antenna, Tilt Base, Radial Plate, UNUN, Mounting/ Connection Kit	**$989.61**
DXE-MBV-200S	Replacement 2" Saddle Clamp	**$15.49**

COMTEK SYSTEMS





Vertical Antennas and Arrays

These rugged, affordable quarter-wave antennas are designed to be used in sets to provide top performance with phased vertical array systems like the COMTEK PVS 2-antenna systems or COMTEK and DX Engineering Four-Square array controllers. **The COM-20VA antenna can be used on any single band —20, 17, 15, 12 or 10 meters—by adjusting its length.**

Constructed from 6063 aircraft-spec aluminum tubing, these antenna taper from a huge base section. High strength, UV-resistant EXTREN® insulators and a heavy aluminum plate mounting base ensure long lasting, reliable performance under adverse conditions. The antennas come with V-saddle clamps for installation to your ground-mounted pipe; 2" OD pipe is recommended, but the clamps will accept any size from 1" to 2". Stainless steel hardware included. Light rope guying is always recommended for phased systems to keep spacing precise and minimize swaying.

20 Meter Vertical Antenna

COM-20VA	20M Vertical Antenna	**$189.99**
COM-20VA-2P	20M Vertical Antenna, Set of 2	**$379.98**
DXE-TB-8P	Tilt Base, Kit	**$134.98**
COM-20VA-4P	20M Vertical Antenna, Set of 4	**$759.96**

30 Meter Vertical Antenna

COM-30VA	30M Vertical Antenna	**$299.99**
COM-30VA-2P	30M Vertical Antenna, Set of 2	**$599.98**
COM-30VA-4P	30M Vertical Antenna, Set of 4	**$1,199.96**
DXE-TB-7P	Tilt Base, Kit	**$134.98**

40 Meter Vertical Antenna

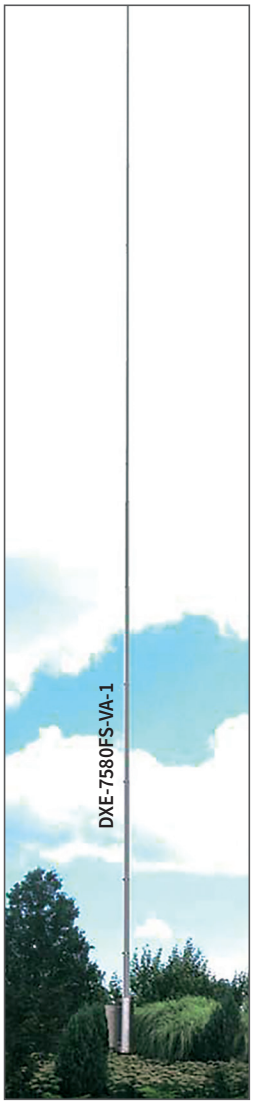
COM-40VA	40M Vertical Antenna	**$325.99**
COM-40VA-2P	40M Vertical Antenna, Set of 2	**$651.98**
COM-40VA-4P	40M Vertical Antenna, Set of 4	**$1,303.96**
DXE-TB-7P	Tilt Base, Kit	**$134.98**

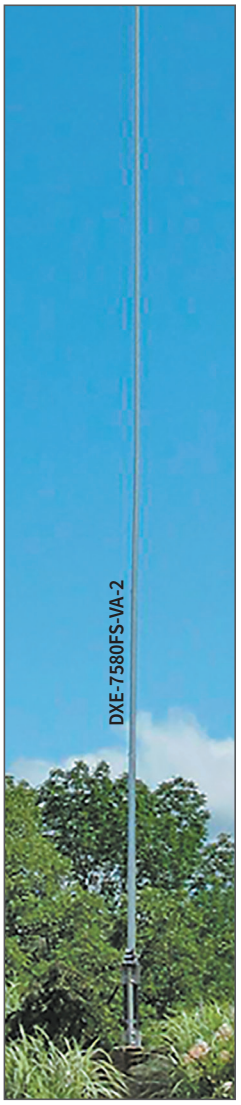
See page 79 for Radial Plates and Radial Wire Kits to complete your antenna installation.

ON ALL BANDS
AN AMATEUR RADIO BLOG POWERED BY DX ENGINEERING

Check out our blog, ***OnAllBands.com***, for articles on upcoming DXpeditions, what's new in contesting, digital operations, and a range of other topics.

Want more? We've got loads of tech videos and interviews on the DX Engineering YouTube channel. Of course, when you want personal attention, our experts are only an email or phone call away.





DX ENGINEERING

75/80 Meter Monoband Vertical Antennas

DX Engineering 7580FS Series are full size, quarter-wave high-performance antennas with everything you need in a high-performance vertical. They feature ultra-wide SWR bandwidth and unbeaten gain, and can handle the highest power amplifiers for reliable performance. They're ideally suited for single antenna applications and directional multi-antenna arrays. Visit DXEngineering.com for details.

DXE-7580FS-VA-1 has a 2" OD heavy wall base section. Its slim profile means you can hide it easily, even in a small stand of tall trees. Some DXers have painted the antenna to match the bark of the surrounding trees. Because of its slim, full size height, guying is required on this antenna.

DXE-7580FS-VA-1 2" OD Full Size Vertical..... **$899.99**

DXE-7580FS-VA-2 has a 3" OD heavy wall base section and thick-wall 6061 aluminum tubing mid-sections, providing a strong antenna with **no guying necessary**. The antenna can easily be lowered with the supplied Heavy-Duty Plus Stainless Pivot Base and the optional DXE-VRW-1 hand winch.

DXE-7580FS-VA-2 3" OD Full Size Vertical..... **$1,534.98**

DXE-VRW-1 Manual Winch Add-On Kit..... **$287.99**

The massive DXE-7580FS-VA3 features a 4" OD heavy wall base section and thick-wall 6061 mid sections, creating a very stout 68 foot vertical antenna with **no guying necessary**, even in adverse conditions. It can be lowered easily with the supplied Heavy-Duty Plus Stainless Pivot Base and the optional DXE-VRW-1 hand winch.

DXE-7580FS-VA-3 4" OD Full Size Vertical..... **$2,959.97**

DXE-VRW-1 Manual Winch Add-On Kit..... **$287.99**

For new hams, check out our Getting Started HT, Mobile, and Base Radio Packages!

⚠ **WARNING:** For Proposition 65 information, see p. 3

DX COMMANDER


DXC-SIGNATURE-9

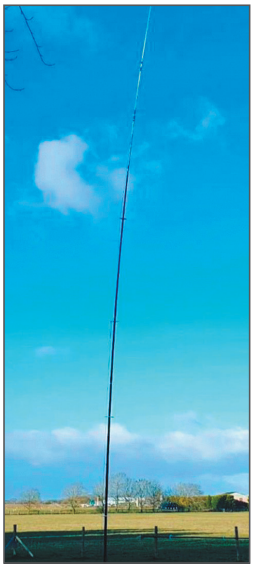

DXC-SIGNATURE-18


DXC-RAPIDE2

HF Vertical Antenna Packages

DX Engineering is pleased to be the exclusive North American distributor of DX Commander's lineup of innovative, high-performance vertical antennas designed by Callum, M0MCX and ruggedly constructed in England's Midlands region for stations around the globe, including highly successful DXpedition setups. DX Commander multiband antennas boast efficient resonance on every band of operation; low SWR without the need for traps, coils, or antenna tuners; low takeoff angle; and a power rating of 1,500W SSB/CW and 400W for FT8 and other digital modes. The company's extensively tested antennas—from the freestanding Signature 9 model to the Rapide, made for quick deployment in the field—are based on the same principles as a fan dipole, with several vertical wire elements of various resonant lengths connected to a common feedpoint. Among several portable options is the 23' Venture, which is efficiently resonant on 40/20/15M. Easy to construct and made for long-term use, antenna packages include sturdy fiberglass telescopic mast, stainless fasteners, aluminum ground and driven plates, spreader plates, EzyClamp stay-up kit, antenna wire, guying rope, and shock-cord. **Enter "DXC Commander" at DXEngineering.com for more details.**


DXC-EXPEDITION


DXC-SIGNATURE

DXC-CLASSIC2	Classic Model, 40-2M, 32.81'	**$421.39**
DXC-CLASSIC2-80	Classic Model, 40-2M Plus 80M, 32.81'	**$501.74**
DXC-EXPEDITION	Expedition Model, 40-6M, 36.75'	**$420.41**
DXC-RAPIDE2	Rapide Model, 40-6M, 23'	**$373.37**
DXC-RAPIDE2-PLUS	Rapide Model, 40-6M, 23' w/Ground-Mounted Post	**$426.28**
DXC-SIGNATURE-12	Signature 12 Model, 80-6M, 40.68'	**$734.97**
DXC-SIGNATURE-18	Signature 18 Model, 80-6M, 59'	**$868.25**
DXC-SIGNATURE9-2	Signature 9 Model, 40-10M (80M with horizontal Inverted-L wire), 29.53'	**$630.98**
DXC-VENTURE	Venture Model, 40/20/15M, 23'	**$335.97**

Replacement Antenna Wire

A spool of DX Commander DX10 328' (100M) antenna wire provides enough wire to replace the elements on all DX Commander antenna models while still having enough left over to use for making radials. Approximately 19 AWG, this UK military-spec PVC-insulated stranded copper wire offers strength and flexibility.

DXC-DX10WIRE DX10 Replacement Antenna Wire, 328' Spool **$81.99**

EzyClamp Replacement Mast Clamp Kits

These clamp kits are direct replacements for the mast clamps originally supplied with DX Commander telescoping masts. Constructed from durable Nylon 66, the clamp kits are available for all antenna models above. **Enter "DXC Hex Clamp" at DXEngineering.com for more details. Pricing from $8.39-$25.99**



DX ENGINEERING

THUNDERBOLT® Dual-Band High-Performance Vertical Antennas

80/40 Meters

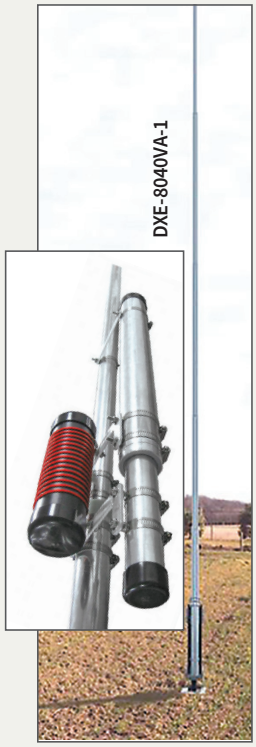
- Full band coverage on 40 and 300 kHz on 80 meters with SWR under 2:1—no outboard tuner needed
- Tunable above and below 7 MHz range for MARS and CAP frequencies
- Maximum legal power handling
- Optimum 53' overall height
- Includes Pivot Base **(Shown on page 96)**
- Self-supporting design withstands 50 mph wind **without guying**—easy raising and lowering with optional winch kit

DXE-8040VA-1	80M Vertical Antenna	**$2,019.97**
DXE-VRW-1	Manual Winch Kit	**$287.99**
DXE-7580-THK	CW Optimizer Capacity Hat	**$89.99**
DXE-8040-30AOK	30 Meter Add-On Kit	**$222.99**

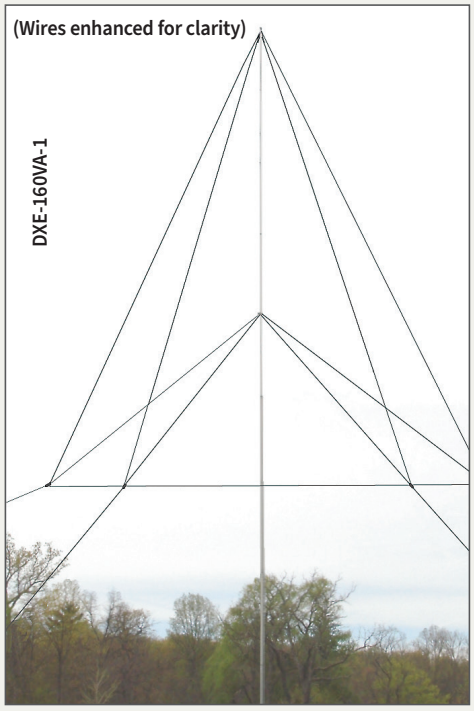
40/30 Meters

- Full band coverage on 40 and 30 meters with SWR under 1.5:1—no tuner needed
- 40M bandwidth greater than 750 kHz with SWR under 2:1
- Tunable above and below 7 MHz range for MARS and CAP frequencies
- Maximum legal power handling
- Includes Tilt Base
- Optimum 30' overall height
- Self-supporting design withstands 60 mph wind without guying

DXE-4030VA-1 40/30M Dual-Band Antenna ... **$569.98**







High-Performance 160 Meter Quarter-Wave Vertical

Now you can have a high-performance vertical antenna specifically for the 160 meter band. Achieve the strongest possible presence at your power level and be really competitive! This custom-designed capacity hat system integrates with light rope guying, allowing you to get on 160 meters with a BIG signal from a vertical monoband antenna that is only 55 feet tall! Constructed from aircraft-grade aluminum, the massive three inch diameter lower section is secured by a Heavy-Duty Plus Stainless Steel Pivot Base, which can be lowered easily with the optional DXE-VRW One Man Manual Winch.

Antenna Features:

- 5 kW SSB and CW rated
- Unparalleled reliability
- A custom designed capacity hat for top performance
- An adjustable matching network for the lowest SWR
- 40 kHz SWR bandwidth - CW+DX Phone
- The lowest takeoff angle reduces domestic QRM signals

DXE-160VA-1 160M Vertical Antenna **$1,664.97**

DXE-VRW-1 Manual Winch Add-On Kit **$287.99**



DXEngineering.com is loaded with detailed photos, specs, videos, and more!



DX ENGINEERING

OMNI-TILT™ Vertical Antenna Tilt Base Packages

Thanks to its proven design features, the DX Engineering OMNI-TILT Vertical Antenna Tilt Base has become wildly popular. So, we decided to make it even easier to install by creating vertical antenna packages that include both the base and a comprehensive hardware kit.

The OMNI-TILT Base was designed upon on the same proven-safe technology as the patented DX Engineering Saf-T-Tilt™ Base and the patented DXE-TB-3P Tilt Base. The antenna can't fall when the fasteners are loosened. Lifting the OMNI-TILT base plate disengages the bolts from the top, so the antenna can be easily lowered for maintenance or to protect it from extreme weather.

It's custom made from laser cut 1/8" thick stainless steel for strength and durability. All of the hardware used in the OMNI-TILT Base is stainless steel to ensure long and dependable service. The DX Engineering OMNI-TILT base is compatible with a wide variety of vertical antennas—including homebrew verticals.

We make several OMNI-TILT optional mounting hardware kits available separately to expand and upgrade the base's versatility.

DXE-OMNITILT-1P	OMNI-TILT Package for Trap Verticals	$105.98
DXE-OMNITILT-2P	OMNI-TILT Package for Mast Mounted Verticals	$163.97
DXE-OTMC-250P	OMNI-TILT Mounting Clamp Kit	$31.99
DXE-TVA-HWK	Replacement Tilt Base Hardware Kit	$5.99
DXE-AOK-OT1194	OMNI-TILT Wing Nut Knobs	$11.99

Note: OMNI-TILT shown with optional parts.











Add-On Kits for Hustler BTV Verticals

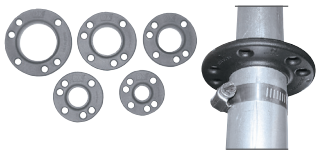
DX ENGINEERING

DX Engineering offers add-on kits that provide additional frequency band coverage or installation and operating convenience to the popular Hustler BTV vertical antenna family. Simply add the kit, make some minimal tuning adjustments, and you're on the air with an additional band. The AOKC-17M and DXE-AOKC-12M are upgraded versions of the original 17 and 12 meter add-on kits. The stainless steel DXE-AOK-DCF allows simple connection of coaxial cable with a PL-259 connector.

DXE-AOKC-12M	Upgraded 12 Meter Add-On Kit for Hustler BTV Verticals	$95.99
DXE-AOKC-17M	Upgraded 17 Meter Add-On Kit for Hustler BTV Verticals	$115.99
HSR-30-MTK	30 Meter Add-On Kit for Hustler 4BTV and 5BTV Verticals	$94.99
DXE-AOK-60M	60 Meter Add-On Kit for Hustler BTV Verticals	$121.99
DXE-AOK-80M	80 Meter Add-On Kit for Hustler 4BTV Verticals	$164.47
DXE-AOK-DCF	Direct Coax Feed for Hustler BTV Verticals	$42.99
DXE-8X19-RT	Vertical Antenna Feedpoint Cable	$47.99

Guy Rings

DX ENGINEERING



You can use DX Engineering's finely engineered Guy Rings to secure your rope guys and stabilize your DX Engineering, Hustler or other aluminum vertical antenna. They're also great for our Telescoping Fiberglass and Aluminum Tubing Kits.

These guy rings are super strong, virtually impervious to the elements and fit 0.75", 1.0", 1.25", 1.50" and 2.0" OD tubing. For all the specs, please visit DXEngineering.com.

DXE-GR-2P	Guy Rings, Set of 2	$5.29
DXE-GR-4P	Guy Rings, Set of 4	$10.29
DXE-GR-5P	Guy Rings, Set of 5	$9.29

Prices are subject to change without notice.

Multi-Band High Performance HF Vertical Antenna Systems Now with OMNI-TILT Option

DX ENGINEERING



DX Engineering's tech support teams have bundled together multi-band vertical antenna systems designed to get you on the HF bands quickly, without the component-matching hassles. The systems are based around a Hustler Multi-Band HF Vertical.

The DX Engineering team chose Hustler because of the antennas' performance, durability and versatility. The verticals are easy to tune and deliver outstanding performance.

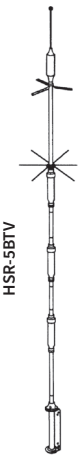
The P3 combos also include DX Engineering's patented Radial Plate, which creates an ultra-reliable radial system to ensure optimized antenna performance. The patented DX Engineering Tilt Base makes it easy to raise/lower the antennas for service, bad weather, or to keep the neighbors happy.

You'll also get appropriate stainless steel clamps, hardware, direct coax feedpoint kit, connector kit, coax jumper and a 64 page installation guide. The P2 packages come with everything in the P3 combos but include the OMNI-TILT base instead of the Tilt Base. Exact contents vary by system, visit DXEngineering.com for complete package details.

Band Coverage							
Multi-Band High Performance HF Vertical Antenna Systems with OMNI-TILT Base							
Part Number	**80M**	**40M**	**30M**	**20M**	**15M**	**10M**	**Price**
DXE-HSR-4BTV-P2		X		X	X	X	$759.68
DXE-HSR-5BTV-P2	X	X		X	X	X	$849.68
DXE-HSR-6BTV-P2	X	X	X	X	X	X	$889.68
Multi- Band High Performance HF Vertical Antenna Systems with DXE-TB-3P Tilt Base							
Part Number	**80M**	**40M**	**30M**	**20M**	**15M**	**10M**	**Price**
DXE-HSR-4BTV-P3		X		X	X	X	$712.69
DXE-HSR-5BTV-P3	X	X		X	X	X	$802.69
DXE-HSR-6BTV-P3	X	X	X	X	X	X	$842.69

BTV Verticals

HUSTLER



The Hustler BTV antenna series delivers great performance, easy assembly, and the best reliability of any multi-band vertical on the market. These antennas offer 2:1 SWR or better at the band edges and up to a 100 kHz bandwidth on 75/80M (5BTV and 6BTV only). Hustler's exclusive trap design offers the lowest loss possible.

Hustler BTV series antennas are a quarter-wave-trapped vertical design that should be ground-mounted with radials or elevated-mounted with tuned radials. Visit DXEngineering.com for more information about radials for quarter-wave vertical antennas.

The sealed cover on the traps assures stable tuning in all kinds of weather. There is a wide tuning range designed in the antenna to accommodate differing ground plane conditions. All antenna sections use 1.25" heavy wall, high strength aluminum. The traps use a solid 1" fiberglass form for optimum electrical and mechanical stability. The base uses an extra heavy-duty aluminum mounting bracket with low loss, high strength insulators.

HSR-4BTV	BTV-4 Band Antenna Only	$369.98
HSR-5BTV	BTV-5 Band Antenna Only	$459.98
HSR-6BTV	BTV-6 Band Antenna Only	$499.98

Service Parts for Hustler Verticals

DX Engineering now stocks a ton of parts to keep your Hustler Antenna on the air for a long time. These are genuine Hustler parts, so you're assured both excellent fit and function. Don't see a critical part you need? Call us, we may be able to special order it for you—or perhaps suggest a custom solution.

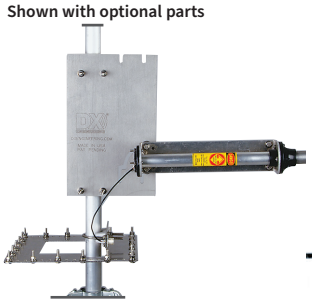
Part Number	Description	Price
HSR-TRAPCVR-P	Replacement Trap Caps, Set of 4	$19.99
HSR-3772-1	Clutch Nut for Old-Style RM Resonators	$5.50
HSR-3774-1	Clutch Sleeve for Old-Style RM Resonators	$5.50
HSR-4087-1	Lower Aluminum Tube for BTV Series	$43.99
HSR-4090-1	10 Meter Trap for BTV Series	$98.99
HSR-4090-2	15 Meter Trap for BTV Series	$98.99
HSR-4090-3	20 Meter Trap for BTV Series	$98.99
HSR-4090-4	30 Meter Trap for BTV Series	$98.99
HSR-4098-1	Antenna Base Assembly Bracket for BTV Series	$66.99
HSR-4457-1	Spider Assembly for 5BTV Antenna, 3-Blade	$29.99
HSR-9471	Spider Assembly for 4BTV and 5BTV, with Hardware and Tubing	$52.99
HSR-49-04-40S	Antenna Whip for RM-40S Super Resonator	$13.99
HSR-49-04-80S	Antenna Whip for RM-80S Super Resonator	$13.99

⚠ WARNING: For Proposition 65 information, see p. 3

DX ENGINEERING

Tilt Base

Shown with optional parts



No more climbing ladders or removing a bracket from the support post. One person can easily lift the antenna, tilt it to the side and walk it down. The optional DXE-AOK-TB1193 Wing Nut Kit makes for a no-tools fastening of the tilt base. Precision-cut from 3/16" 304 stainless steel, the Tilt Base is virtually indestructible and conveniently mounts to the same mast that you use for the antenna and radial plate. The Tilt Base is great for installations that need to accommodate CC&R, or for taking down antenna during severe weather.

Use DXE-TB-3P for Hustler BTV models, DXE-TB-4P for specific, GAP, Hy-Gain and DX Engineering Verticals, and use DXE-TB-6P for HyGain 14AVQ. The DXE-TB-4P Tilt Base is intended for quarter-wave verticals that have a minimum of 1/2" and a maximum of 2" OD base, weigh up to 20 pounds, and have a height of no more than 28'. Vertical antennas up to 43' must be adequately guyed, and extra precautions should be taken when raising or lowering the antenna to avoid undue lateral stress on the tilt mechanism. If you are mounting your Tilt Base to a ground mounted pipe, you will need two DXE-SSVC-2P V-Bolt Saddle Clamps to complete the installation.

DXE-TB-3P	Tilt Base Kit for Hustler BTV Model Antennas	**$83.99**
DXE-TB-4P	Tilt Base Kit for Antennas Other Than Hustler BTV	**$129.46**
DXE-TB-6P	Tilt Base Kit for Hy-Gain 14AVQ	**$122.48**
DXE-TB-7P	Tilt Base for COMTEK 40VA and 30VA Verticals, Kit	**$134.98**
DXE-TB-8P	Tilt Base for COMTEK 20VA Verticals	**$134.98**
DXE-AOK-TB1193	Wing Nut No-Tools Kit, Pack of 2	**$11.99**
DXE-SSVC-2P	V-Saddle Clamp, 1" to 2" OD Applications	**$19.49**

DX ENGINEERING

HF Antenna Mounting Heavy-Duty Pivot Base



Shown with optional parts.

You don't have to call a buddy—this base lets you raise your antenna without asking for help. It's perfect for both monoband and multi-band HF vertical antennas. In fact, this is the same base supplied with many of DX Engineering's vertical antenna kits, including the 55' models, 80/40 meter DXE-8040VA-1, and 160 meter DXE-160VA-1.

Made with stainless steel components and extra-strong Extren® insulated channels, the DX Engineering Pivot Base for 3" O.D. tubing is an excellent HF antenna mounting solution. Also choose the optional DXE-VRW-1 Manual Winch. Visit DXEngineering.com to see exact installation parameters.

DXE-VA-PIVOT-3	Pivot Base, for 3" O.D. Base Tubing	**$713.99**

DX ENGINEERING

Telescoping Aluminum Antenna Kit

DXE-VA-BASE



- 65' Maximum Length
- Eleven telescoping sections from 2" to 7/8" OD
- Stainless steel element clamps

DXE-ATK65A	Telescoping Aluminum Antenna Kit	**$499.99**
DXE-VE-BASE	Vertical Antenna Fixed Base Assembly, Insulated	**$116.99**
DXE-VA-BASE	Vertical Antenna Tilt Base Assembly, Insulated	**$202.99**

DX ENGINEERING

Vertical Ground Mount Tubing



DXE-ATK65A

Made from high strength, galvanized 4130 chromoly steel, DX Engineering Vertical Ground Mount Tubing is a solid choice for installing and supporting large vertical antennas, tilt pivot bases, and other antenna and mast tilt mounts. Intended for placement in concrete foundations, this cold-drawn, electric-weld tubing has a yield stress rating of over 100,000 PSI, a minimum tensile strength above 110,000 PSI, 0.250" wall thickness, and cold galvanized ends to inhibit rust. Tubing is available in two lengths specifically made for vertical antenna ground-mount usage and at reasonable common ground shipping costs: 2" OD about 5' 4" long and 3" OD about 7' 3" long. Note: Shipped tubing may be slightly longer than indicated.

DXE-VGMT-2CG	Galvanized Steel Tubing, 2" OD about 5' 4" long	**$201.99**
DXE-VGMT-3CG	Galvanized Steel Tubing, 3" OD about 7' 3" long	**$405.99**

butternut

BUT-MPS





BUT-A-15



BUT-290-05A

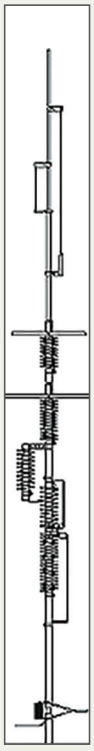


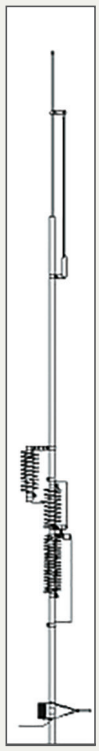


BUT-GRK

BUT-TBR-160X

Vertical Antennas







BUT-HF9V BUT-HF6V BUT-HF2V

Butternut Antennas have a well-earned reputation for performance and long life. They are easy to erect and tune, and will last many years. No lossy traps are used in these internationally acclaimed antenna designs.

BUT-HF9V	9-Band, 80/40/30/20/17/15/12/10/6M	**$1,062.99**
BUT-HF6V	6-Band, 80/40/30/20/15/10M	**$929.99**
BUT-HF2V	2-Band, 80/40M	**$686.99**
BUT-MPS	Mounting Post Sleeve for HF6V/HF9V	**$53.99**
BUT-GRK	Ground Radial Kit for HF2V/HF6V/HF9V	**$127.99**
BUT-TBR-160X	Newly Designed 160M Add-On Kit for HF2V/6V/9V	**$320.99**
BUT-A-17-12	17/12 Meter Kit for HF6V, 277-10	**$158.99**
BUT-A-15	15M Resonator Kit for HF6V/9V	**$153.99**
BUT-A-6	6 Meter Kit for HF6V, 277-12	**$106.99**
BUT-290-06A	Replacement 67 pF Capacitor	**$81.99**
BUT-290-05A	Replacement 200 pF Capacitor and Hardware Pack	**$74.99**
BUT-290-07A	Replacement 67 pF and 200 pF Capacitor and Hardware Pack	**$160.99**
BUT-290-08A	Replacement 75 Ohm Matching Cable with FPC, HF6V, HF9V	**$139.99**
BUT-290-08B	Replacement 75 Ohm Matching Cable, HF6V, HF9V	**$95.99**
BUT-290-08C	Feedpoint Connector, HF2V, HF6V, HF9V	**$63.99**
BUT-290-11	Capacitor Bracket Replacement Kit,80/40/17/12M	**$46.99**
BUT-290-12	Tube B1 with Insulator	**$53.99**
BUT-290-13	Replacement 30M Bracket and Capacitor Kit	**$145.99**
BUT-290-14	Hardware Pack for HF2V	**$21.99**
BUT-290-15	Hardware Pack for HF6V/HF9V	**$29.99**
BUT-290-16	Insulator Replacement Kit for HF2V/HF6V/HF9V, Set of 2	**$36.99**
BUT-290-17	Replacement Aluminum Tube B for HF6V, HF9V	**$41.99**

DX ENGINEERING

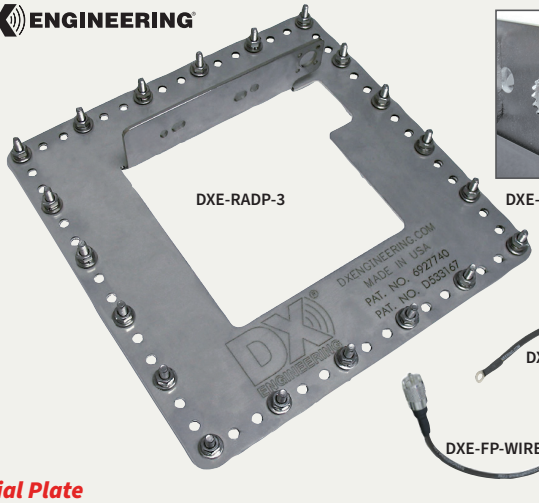
Manual Winch Add-On Raising Kit



DX Engineering's Manual Winch Add-On Raising Kit lets you easily raise and lower your DX Engineering vertical antenna by yourself, which makes antenna service a much easier job. The kit can be moved from one compatible DX Engineering antenna to another, making it a valuable tool for multi-antenna arrays. This kit works with many of DX Engineering's Vertical Antennas and is an excellent complement to its Heavy-Duty Pivot Base. Features include automatic friction brake for consistent grip; automatic hold of antenna position; handle that won't spin under load; 2.5" diameter drum hub; 5.1:1 gear ratio; zinc Tuffplate finish; and stainless steel hardware. Rated at 1,500 lbs., the winch has a minimum operating load of 75 lbs. The winch strap (2" W x 15' L) with hook and loop is manufactured from low-stretch polyester webbing with 4,000 lb. break strength.

DXE-VRW-1	Manual Winch Add-On Kit	**$287.99**

DX ENGINEERING



Radial Plate

DX Engineering's patented Radial Plate provides a neat, easy and effective way to connect essential radial wires and feedline to your quarter-wave vertical antenna. The plate can be attached easily and rigidly to a 4x4 or 6x6 post, steel or aluminum pipe up to 3" OD, a fence post, or whatever is supporting your antenna. Purchase the optional V-Saddle Clamp for mounting the plate to pipe up to 3" OD.

The plate assembly has been drilled for an optional SO-239 panel mount or bulkhead mount connector, available from DX Engineering. This will ground the shield of your feedline to the radial plate before it goes to the antenna, allowing maximum transfer of ground current directly into your radial system.

- Provides attachment for coaxial cable shield
- Square to allow most radial attachment points
- Stainless steel plate won't dissolve like aluminum
- Stainless steel hardware

DXE-RADP-3	Radial Plate with 20 Stainless Steel Bolt Sets	$99.99
DXE-RADP-1HWK	Hardware Set, Includes 20 sets of 1/4" Stainless Hardware	$11.59
DXE-225RT-20	Ring Terminals, 1/4" Hole, for 14-/16-Gauge Wire, 20 Pack	$6.49
DXE-SSVC-2P	V-Saddle Clamp, 1" to 2" OD Applications	$19.49
DXE-SSVC-3P	V-Saddle Clamp, 2.375" to 3" OD Applications	$23.49
DXE-UHF-FDFB-KIT	SO-239 Bulkhead Connector Kit	$18.28
DXE-112-KIT	SO-239, PTFE/Silver, Chassis Mount with Hardware	$16.99
DXE-363-SST	SO-239, PTFE/Silver, Bulkhead Fitting with Hardware	$11.99
DXE-FP-WIRE-N	Feedpoint Assembly, N Connector, Use with DXE-1023	$20.24
DXE-FP-WIRE-P	Feedpoint Assembly, PL-259, Use with DXE-UHF-FDFB-KIT	$27.99
PTX-81343	Anti-Seize Compound, 1 Oz. Squeeze Tube	$3.99

DX ENGINEERING

Vertical Antenna Matching Network

Without a means of adjusting feedpoint impedance, achieving the best SWR on 160, 80 and 40 meters on some vertical antenna installations with excellent radial systems may be difficult. The Vertical Antenna Matching Network lets you tune a low impedance antenna to the minimum SWR in the user-selected portion of the band without affecting operation on the other, higher frequency bands (if applicable). This Vertical Antenna Shunt Matching Network can be used on resonant 160 meter Inverted-L and Tee-Top wire verticals. The #12 AWG coil wire is tin-nickel plated for high power handling, corrosion resistance, ease of soldering and long-term reliability, even outdoors.



DXE-VMN-1 Vertical Antenna Matching Network $105.99

DX Engineering Coil Tap Clips

These silver-plated Coil Tap Clips provide adjustable attachment points to uninsulated coils including homebrew, Miniductor™ and Airdux™. They also are useful for making flying connections to uninsulated wire in non-RF applications without soldering or cutting. These clips will accommodate wire sizes from #20 to #10 AWG.



DXE-CLIP-P Coil Tap Clips, Pack of 5 ..... $10.99

Wing Nut No-Tools Kit for DX Engineering Tilt Base

Use these wing nut knobs for tool-less quick release of the DX Engineering DXE-TB Tilt Bases—handy for lowering the antenna for tuning or daily stealth operation. Simply remove the existing hex nuts and thread on the wing nuts. The old hex nuts store on the tilt base for future use. Purchase two sets to allow tightening of the lower mounting hardware without tools and for extended periods of upright installation and use.



DXE-AOK-TB1193 Wing Nut No-Tools Knobs, Pack of 2 ..... $11.99

DX ENGINEERING



Radial Wire Kits

Bulk Radial Wire Kits

You should install as many radials as possible to achieve optimal performance with a ground-mounted vertical. These radial wire kits use #14 stranded insulated copper wire that is UV-resistant, hard to see, and the relaxed PVC insulation allows it to lie down easily without a preset helix.

DXE-RADW-500K	Radial Kit, 500', Ring Terminals, Wire Staples	$136.47
DXE-RADW-500KBD	Radial Kit, 500', Ring Terminals, Biodegradable Staples	$137.47
DXE-RADW-1000K	Radial Kit, 1,000', Ring Terminals, Wire Staples	$258.95
DXE-RADW-1000KBD	Radial Kit, 1,000', Ring Terminals, Biodegradable Staples	$260.95

Pre-Assembled Radial Wires

These packages of pre-cut 14-gauge radial wires include 1/4" Ring Terminals that are machine-crimped on one end for quick attachment to your radial plate.



DXE-RADW-20RT	20' Radial Wire, 20 Pack	$229.99
DXE-RADW-32RT	32' Radial Wire, 20 Pack	$345.99
DXE-RADW-65RT	65' Radial Wire, 20 Pack	$379.99
DXE-RADW-120RT	120' Radial Wire, 10 Pack	$425.99

Pre-Cut Radial Kits

DX Engineering offers pre-cut radial wire kits for the 80, 40, 20, 15 and 10 meter bands, complete with wire connection hardware for elevated radial installations. Just strip the wire ends, crimp and solder. Each radial is slightly longer than a quarter-wave to allow tuning as necessary.

DXE-RADW-1K	Radial Wire Kit for 20, 15 and 10M	$55.99
DXE-RADW-40MK	Radial Wire Kit for 40M	$44.99
DXE-RADW-80MK	Radial Wire Kit for 80M	$79.99

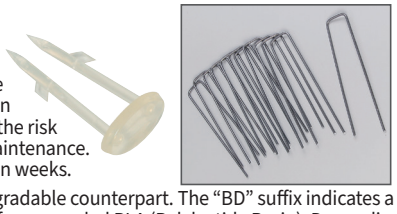
Tinned Copper Radial Kits

Featuring 16 AWG tinned solid copper wire, tinned crimp ring terminals, and biodegradable staples, these kits provide a cost-effective solution for wiring your high-count, full-size ground radial systems for high-efficiency single verticals and multiple-element arrays.

DXE-TCRW16-5CBD	500' Radial Wire, 40 Rings, 200 Staples	$152.95
DXE-TCRW16-1KBD	1,000' Radial Wire, 80 Rings, 400 Staples	$315.91
DXE-TCRW16-25CBD	2,500' Radial Wire, 120 Rings, 600 Staples	$683.87
DXE-TCRW16-5KBD	5,000' Radial Wire, 160 Rings, 800 Staples	$1,261.83

DX ENGINEERING

DXE-STPL-100BD Radial Wire Metal Staple



Radial Wire Staples

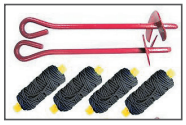
There is no need to bury your radials for performance. DX Engineering Radial Wire Staples are perfect for fastening radials on the ground below the grass to eliminate the risk of damaging your radials during lawn maintenance. The radials disappear into the lawn within weeks.

The low-cost metal staples have a biodegradable counterpart. The "BD" suffix indicates a pack of 3" biodegradable anchors made from recycled PLA (Polylactide Resin). Depending on weather conditions, they will degrade in a year or two. They are easily installed and will hold radial wires in place until lawn roots overtake them—and then the staples disappear. Ecologically friendly. Color of BD staples varies.

DXE-STPL-100BD	Radial Wire Biodegradable Staple, 3", 100 Pack	$19.99
DXE-STPL-100P	Radial Wire Metal Staple, 6", 100 Pack	$18.99
DXE-STPL-300P	Radial Wire Metal Staple, 6", 300 Pack	$62.99

Guying Kits

Many locations experience winds that can be damaging to antennas, even at ground level. These kits provide four ground anchors and plenty of 260 pound, 3/32" diameter rope to provide the guying necessary to protect your vertical antenna. The black rope is UV-protected to last for years.



DXE-GUY400-KIT

DXE-GUY100-KIT	BTV Guying Kit, 100' of Rope	$48.35
DXE-GUY200-KIT	BTV Guying Kit, 200' of Rope	$61.94
DXE-GUY400-KIT	Vertical Guying Kit, 400' of Rope	$89.12
DXE-GUY1000-KIT	HD Vertical Guying Kit with 1,000' of Rope	$113.75
DXE-EA15	Earth Anchor	$8.69



Accessories for Vertical Antennas

DXE-SSVC-2P	V-Saddle Clamp, 1" to 2" OD	$19.49
DXE-AOK-TB1193	Wing Nut Tilt Base Add-On Kit, 2 Per Pack	$11.99
DXE-AOK-DCF	Direct Coax Feed	$42.99
DXE-8XDX002	Low Power DCF Jumper Cable, 2'	$38.49
DXE-400MAXDX003	High Power/Low Loss DCF Jumper Cable, 3'	$40.99

DX Engineering carries equipment from more than 180 top manufacturers!

⚠ WARNING: For Proposition 65 information, see p. 3

DX ENGINEERING



DXE-TFS4-40B-P

Transmit Four-Square Hybrid Controller— 4 Directions plus Omni

DX Engineering TFS4 Series B Transmit Four-Square Systems bring together the highest level of engineering excellence with the practical realities of operator convenience and ease of installation. They're available for the 160, 80 and 40 meter bands, and can be easily dropped-in to your quarter-wave spaced vertical 4-antenna array for optimum directional control.

The systems allow you to receive or transmit with 5.5 dB gain in any one of four directions with a 20+ dB front-to-back ratio for interference reduction from unwanted directions. You can also switch to a single omni-directional pattern with a push of a button. That means you'll be able to listen "all-around," unhindered by pattern nulls, and then select the best direction for signal reception and noise rejection.

The TFS4 Series B Transmit Four-Square Systems are designed for use with a four monoband vertical antennas spaced at the corners of a square that are a one quarter wavelength on a side. The vertical antennas must be ungrounded and resonant in the desired band, and should be directly base-fed by the coaxial cable phasing lines from the centrally located controller. DX Engineering has vertical antennas that are well suited for this application. A properly designed and installed radial system is necessary for top antenna performance.

We recommend our optional Q75-series quarter wavelength cables. They're electronically pruned to a precise electrical length tailored to your operating frequency. The cables are terminated with hand-soldered silver-PTFE PL-259 connectors and weather-sealed with shrinkable tubing. Finally, each cable is tested for high voltage breakdown for maximum reliability and power handling. Since the transmit power is divided by the controller, the coaxial cable can handle maximum power with ease.

If you already have a four-square array with a hybrid controller and would like improved performance and add the omni feature, the DX Engineering TFS4 Series B Transmit Four-Square Systems are a simple upgrade. BCD logic switching allows for the use of a four-wire control cable to perform the necessary switching functions when powered by the included DXE-CC-4SQR control console.

- Classic Hybrid design for easy installation
- 5 kW CW power rating for high reliability
- Hot switching lock-out feature disables amplifier while switching
- Simple upgrade for COMTEK SYSTEMS four-square array
- Proven high performance DX Engineering RF relays
- RF shielded, high impact thermoplastic cover offers unique protection
- Relays cycle during power-on to ensure clean contacts

DXE-TFS4-160B-P	160 Meter Four-Square Controller with Control Console	**$831.98**
DXE-TFS4-80B-P	80 Meter Four-Square Controller with Control Console	**$811.98**
DXE-TFS4-40B-P	40 Meter Four-Square Controller with Control Console	**$807.98**

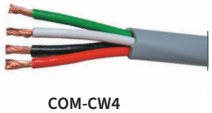
The Control Console is also available separately.

DXE-CC-4SQR	Transmit Four-Square Control Console	**$251.99**

DX Engineering Customer Support personnel will be happy to help you select all the components necessary for a complete installation.



COM-CW3



COM-CW4



DXE-Q75-10-4

Hybrid Array Cables & Accessories

DXE-Q75-160-4	Hybrid Array Cable, 160M, DXE-11U, PL-259 Connectors	**$899.99**
DXE-Q75-80-4	Hybrid Array Cable, 80M, DXE-11U, PL-259 Connectors	**$649.99**
DXE-Q75-40-4	Hybrid Array Cable, 40M, DXE-11U, PL-259 Connectors	**$479.99**
DXE-Q75-30-4	Hybrid Array Cable, 30M, DXE-11U, PL-259 Connectors	**$399.99**
DXE-Q75-20-4	Hybrid Array Cable, 20M, DXE-11U, PL-259 Connectors	**$394.99**
DXE-Q75-15-4	Hybrid Array Cable, 15M, DXE-11U, PL-259 Connectors	**$384.99**
DXE-Q75-10-4	Hybrid Array Cable, 10M, DXE-11U, PL-259 Connectors	**$374.99**
COM-CW3	Control Cable, 3-20 AWG Wires, Black PVC Jacket ..... per foot	**$0.49**
COM-CW3-1000	COM-CW3 Control Cable, 1,000' Spool	**$279.99**
COM-CW4	Cable, 4-Conductor ..... per foot	**$0.85**
COM-CW4-1000	Cable, 4-Conductor, 1,000' Spool	**$579.99**
COM-VFA-1	Vertical Feedpoint Assembly	**$19.99**
COM-VFA-4	Vertical Feedpoint Assembly, Set of 4	**$79.96**
DXE-RADP-3	Stainless Steel Radial Plate with 20 Bolt Sets	**$99.99**
DXE-SSVC-2P	V-Saddle Clamp, Fits 1" to 2" Tube	**$19.49**

DX ENGINEERING



DXE-DVA-160B-P



DXE-EC-DVA

Dual Vertical Array Systems

The Dual Vertical Array is an easy-to-install two-element vertical antenna phasing system that offers great HF performance. It has been designed to increase array efficiency by eliminating the wasteful dump port found on previous systems. These monoband vertical array phasing relay units handle up to 2kW and develop cardioid patterns with over 20 dB front-to-back and up to 3 dB gain over a single vertical.

The Control Console is a three-direction pattern selector that uses LEDs as directional indicators. The console requires 13.8VDC and uses three-conductor 20 AWG control line. The EC-DVA is included with the Dual Vertical Array Systems and also available separately if you'd like to build your own custom control system. Requires two ground-mounted monoband quarter-wave verticals and radial systems, sold separately.

The DX Engineering Dual Vertical Array Systems are available for the amateur radio bands below. Enter "DXE Dual Vertical" at DXEngineering.com for more details.

DXE-DVA-160B-P	Dual Vertical Array System, 160M	**$581.98**
DXE-DVA-80B-P	Dual Vertical Array System, 80M	**$575.98**
DXE-DVA-40B-P	Dual Vertical Array System, 40M	**$575.98**
DXE-EC-DVA	Control Console	**$165.99**

Other packages available for 60M, 30M, 20M, 17M, 15M, 12M and 10M ..... from **$575.98**

By special order. See DXEngineering.com and enter "DXE Dual Vertical" for details.

Quarter Wavelength 80M and 40M Tuned Phasing Cable Assemblies

These assemblies feature reliable DX Engineering RG-11/U 75 Ω cable with PL-259 connectors. For use on Four-Square Arrays, Dual Vertical Arrays and other systems.

DXE-QW11-3650	Phasing Cable Assembly, 80M, Tuned 3.650 MHz, Each	**$119.99**
DXE-QW11-3650-2P	Phasing Cable Assembly, 80M, Tuned 3.650 MHz, Set of 2	**$239.98**
DXE-QW11-3650-4P	Phasing Cable Assembly, 80M, Tuned 3.650 MHz, Set of 4	**$479.96**
DXE-QW11-7100	Phasing Cable Assembly, 40M, Tuned 7.100 MHz, Each	**$79.99**
DXE-QW11-7100-2P	Phasing Cable Assembly, 40M, Tuned 7.100 MHz, Set of 2	**$159.98**
DXE-QW11-7100-4P	Phasing Cable Assembly, 40M, Tuned 7.100 MHz, Set of 4	**$319.96**

ACB-4 Hybrid Four-Square Systems for 4-Element Vertical Arrays

COMTEK SYSTEMS

COMTEK uses a time tested design to produce advanced antenna systems. These Four-Square Array Systems are affordable, simple to install, and easy to use. A Four-Square array consists of four vertical elements fed in a phase relationship and power ratio to obtain a directional pattern. COMTEK vertical arrays provide great directivity. We offer the ACB-4 Hybrid Four-Square System for each Amateur band from 160 meters to 10 meters. The system is band specific. For example, you cannot use an 80 meter ACB-4 Hybrid Four-Square System for any band other than 80 meters.

90 Degree Hybrid-Relay Unit



- 2 kW rating for Amateur SSB and CW
- 15 amp gold plated contact relays with dust covers
- Balanced temperature, frequency, and voltage stable capacitors
- PTFE silver stranded wire over fiberglass tape-wound toroids
- Double-sided printed circuit board
- MOVs for lightning surge protection with RF bypass caps
- Brushed aluminum Z-chassis and cover with riveted seams
- Includes mounting clamp

Switch Control

- Custom USA-made switch
- Current limiting resistor protection for each LED
- Chassis and cover custom manufactured to COMTEK specifications
- Label for recording favored directions
- Compact size: 2" H x 6.25" W x 5" D



COM-ACB-20-A

COM-ACB-160-A	Hybrid Phased Array Four-Square System, 160M	**$579.98**
COM-ACB-80-A	Hybrid Phased Array Four-Square System, 80M	**$569.98**
COM-ACB-40-A	Hybrid Phased Array Four-Square System, 40M	**$599.98**
COM-ACB-30-A	Hybrid Phased Array Four-Square System, 30M	**$709.98**
COM-ACB-20-A	Hybrid Phased Array Four-Square System, 20M	**$709.98**
COM-ACB4A	ACB-4A Series Four-Square Control Console	**$169.99**

Check out our YouTube channel for in-depth tech tips and product demos!

⚠ **WARNING:** For Proposition 65 information, see p. 3

DX ENGINEERING

DXE-PS-2B PRO-STACK Broadband Two Antenna Phasing System





DXE-PS-2B-P

The PS-2B PRO-STACK combines two identical Yagi, log periodic or vertical antennas in a phased arrangement. It is a broadband system that operates from 160 through 10 meters with no need for coaxial delay lines. The PS-2B can be used in applications requiring these four basic antenna feed selections (impedance matching automatically changes when any antenna port is disconnected).

- Both antenna ports in-phase (default)
- Both antenna ports out-of-phase
- Antenna port 1 only
- Antenna port 2 only

Additional Applications

- **Scalable Multi-Antenna Systems-**The PS-2B easily adapts to larger arrays. For example, four stacked Yagis can be combined by creating two sets of two and using a third PS-2B to combine the first two sets.
- **Phased Verticals**-The system can feed three vertical antennas in a four-pattern array. In this arrangement, the three antennas are individual quarter-wave resonant antennas. The center #2 passive element must be directly grounded at all times. Elements #1 and #3 are then fed in various phase relationships.

Additional Features

- 50 Ω system—switched by applying 12-15 volts DC to three control wires
- Power handling up to 5 kW
- High-impact RF-shielded cover
- High RF-tolerant, silver-PTFE UHF connectors
- Proven high-performance DX Engineering RF Relays
- Safe 12-volt relay operation
- MOV surge protection on control lines
- RoHS-compliant

DXE-PS-2B PRO-STACK Anetnna Switch **$699.99**
DXE-PS-2B-P PRO-STACK Antenna Switch and Control Console..... **$895.98**
The Control Console is also available separately.
DXE-EC-PS2 PRO-STACK Control Console..... **$195.99**
Note: Information on the appropriate separation between stacked Yagi antennas in versatile, high-performance array is discussed fully in the ARRL Antenna Book. Generally, stacked Yagi antennas are separated vertically by greater than 1/2-wavelength free space.





DXE-PS-3BDIN-P

DX ENGINEERING

PRO-STACK Three Antenna Phasing Systems

DX Engineering's PRO-STACK phasing systems allow you to combine identical Yagi, Log Periodic Beam or quarter-wave vertical for enhanced performance. The systems promote broadband coverage of the 160-10M bands in a dozen in- and out-of-phase antenna configurations. This system provides impressive nulls (up to 40 dB!), so you can ward off unwanted signals and snag that rarest-of-rare QSO.

The system consists of a relay unit and control console; each component is also available separately. PRO-STACK systems will easily handle the full legal limit and are powered by any 12VDC source. Nine-conductor control cable is required for operation. Choose your system based on the connector type you prefer: 7-16 DIN, SO-239, or type N. **Use keywords "PRO-STACK" at DXEngineering.com for the details.**

DXE-PS-3B-P PRO-STACK Three Antenna Phasing System, SO-239 Connectors..... **$1,205.98**
DXE-PS-3BDIN-P PRO-STACK Three Antenna Phasing System, 7-16 DIN Connectors..... **$1,101.98**

ON ALL BANDS
AN AMATEUR RADIO BLOG POWERED BY DX ENGINEERING

Check out our blog, ***OnAllBands.com***, for articles on upcoming DXpeditions, what's new in contesting, digital operations, and a range of other topics.

Want more? We've got loads of tech videos and interviews on the DX Engineering YouTube channel. Of course, when you want personal attention, our experts are only an email or phone call away.



EA6J 6 Meter Vertical Antenna

Based on the time-tested J-pole design, EAntenna's EA6J delivers 2 dBi gain and a 2 MHz bandwidth at 2:1 SWR. At just about 17' high, its a compact and cost-effective solution for 6 meter stations. It handles full legal limit power and will survive winds up to 80 mph.

EAN-R2010802 EA6J 6 Meter Vertical Antenna..... **$319.99**

MOONRAKER

GPA-80 HF Vertical 80-6M Antennas



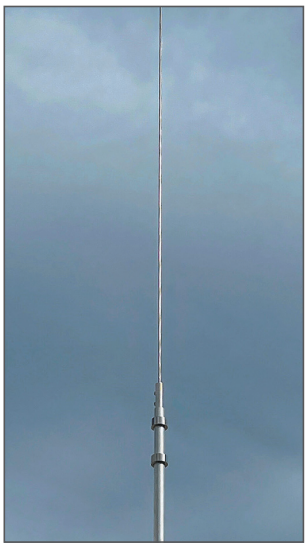
MKR-11-203



MKR-11-251

Available in either fiberglass or aluminum, these plug-and-play Moonraker antennas provide a cost-effective solution to start enjoying the fun of getting on HF. Power rated at 400W or 1,000W, they measure 19.6' and feature an UNUN-matched base, VSWR of less than 1.5:1 over all bands, and 50 Ω to the transceiver with a user-supplied wide impedance range external tuner. Antenna mount and clamps included. Not for use with internal radio tuner. Adding radials is highly recommended to maximize performance. External ATU required.

MKR-11-201 HF Vertical 80-6M Antenna, Aluminum, 1,000W **$359.99**
MKR-11-203 HF Vertical 80-6M Antenna, Fiberglass, 1,000W..... **$399.99**
MKR-11-251 HF Vertical 80-6M Antenna, Aluminum, 400W **$334.99**
MKR-11-252 HF Vertical 80-6M Antenna, Fiberglass, 400W..... **$340.99**



COMET™

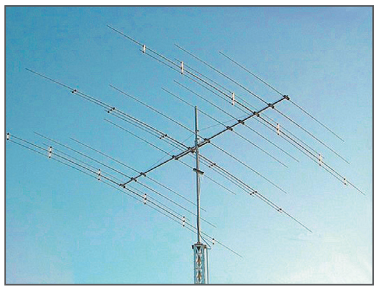
HF/VHF Vertical Antenna

This update of Comet's popular CHA-250B makes a great choice if you'd like wide coverage but don't have a lot of real estate. Measuring 23.42' and weighing slightly over 7 pounds, the low-profile CHA-250HD boasts a power rating of 250W, easy assembly and setup, no ground radials, no tuning or adjustments, and SWR under 1.6:1 from 3.5 MHz-57 MHz. It also delivers excellent performance on the shortwave bands. Upgrades over the CHA-250B include a new solid whip that replaces the top aluminum section for greater strength in high winds (it has a 67.5 MPH wind survival rating) and improvements to its transformer matching section.

CMA-CHA-250HD HF/VHF Vertical Antenna....**$499.95**

For new hams, check out our Getting Started HT, Mobile, and Base Radio Packages!

⚠ **WARNING:** For Proposition 65 information, see p. 3


OPB-OB11-5


OPB-OB9-5HD


OPB-OB1-40

OptiBeam HF Directional Antenna Systems

DX Engineering carries a great selection of world-famous OptiBeam HF directional antennas, built by hams for amateur radio enthusiasts who demand lasting quality and proven performance. If you're looking to give your station an optimal DXing and contesting advantage, an OptiBeam antenna makes a sound choice and a wise long-term investment. Some models include a high-power 1:1 or 1:2 balun with a UHF female connector for your 50 Ω coaxial cable. HD models feature a heavy-duty boom. **Enter "OptiBeam" at DXEngineering.com for many more details.**

System Part Number	Description	Band(s)	Elements	Length	Price
OPB-OB1-40	Rotary Dipole	40M	Single	48.23'	**$1,338.99**
OPB-OB1-4030	Rotary Dipole	40/30	Single/Split	48.23'	**$1,689.99**
Part Number	**Description**	**Band(s)**	**Elements**	**Boom Length**	**Price**
OPB-OB10-5M	Moxon Yagi	20/17/15/12/10	10	12.47'	**$2,559.99**
OPB-OB11-3HD	Yagi	20/15/10	11	20'	**$2,399.99**
OPB-OB11-5	Yagi	20/17/15/12/10	11	19.69'	**$3,499.99**
OPB-OB15-7	Yagi	40/30/20/17/15/12	15	22'	**$5,725.00**
OPB-OB17-4	Yagi	40/20/15/10	17	39.04'	**$6,172.00**
OPB-OB2-40	Yagi	40	2	18.4'	**$2,999.99**
OPB-OB6-3M	Moxon Yagi	20/15/10	6	10.17'	**$1,869.99**
OPB-OB6-6	Yagi	6	6	20.14'	**$1,349.99**
OPB-OB9-5HD	Yagi	20/17/15/12/10	9	16.73'	**$2,659.99**
OPB-OBDYA12-5	Driven Yagi	20/17/15/12/10	12	24.61'	**$3,032.99**
OPB-OB16-3	Yagi	20//15/10	16	33.14'	**CALL/WEB**
OPB-OB13-6	Yagi	40/20/17/15/12/10	13	25.92'	**CALL/WEB**
OPB-OB4030	Yagi	40/30	4	18.37'	**CALL/WEB**
OPB-OB18-6	Yagi	40/20/17/15/12/10	18	39.04'	**CALL/WEB**
OPB-OB5-6	Yagi	6	6	14.57'	**CALL/WEB**
OPB-OB4-40	Yagi	40	4	39.04'	**CALL/WEB**
OPB-OB16-5	Moxon Yagi	20/17/15/12/10	16	33.14'	**CALL/WEB**
OPB-OB21-3	Yagi	20/15/10	21	46.26'	**CALL/WEB**
OPB-OB7-3	Yagi	20/15/10	6	13.45'	**CALL/WEB**
OPB-OB4-2WARC	Yagi	17/12	4	11.48'	**CALL/WEB**
OPB-OB8-4M	Moxon Yagi	40/20/15/10	8	20'	**CALL/WEB**
OPB-OB5-20R	Reflector-Driven Yagi	20	5	39.28'	**CALL/WEB**
OPB-OBDYA9-4	Driven Yagi Array	17/15/12/10	9	16.73'	**CALL/WEB**
OPB-OB12-4	Yagi	40/20/15/10	12	24.93'	**CALL/WEB**
OPB-OB6-2W	Yagi	12/10	6	14.57'	**CALL/WEB**

More OptiBeam models coming soon. Enter "OptiBeam" at DXEngineering.com for many more details.

6-Band HF-Plus Yagi

This heavy-duty 12-element HF-plus Yagi covers the 20, 17, 15, 12, 10, and 6 meter bands with a single coax connection to match modern HF+6M transceivers. Excellent performance is achieved by direct feed with no traps, coils or hairpins for class-leading radiating efficiency. This ruggedly built beam antenna delivers low SWR from 20M through 6M and is ready for harsh weather environments with aerospace grade T6 6066/6082 aluminum tubing, UV and temperature-protected insulators, and all stainless steel hardware. The stout, modest length 17.5' boom is made of 2" square tubing, and the antenna's interleaved and rigid fast-taper elements are designed to easily shed the wind.

IVA-18480-DXE126 20-6M 12-Element Yagi **$1,860.00**

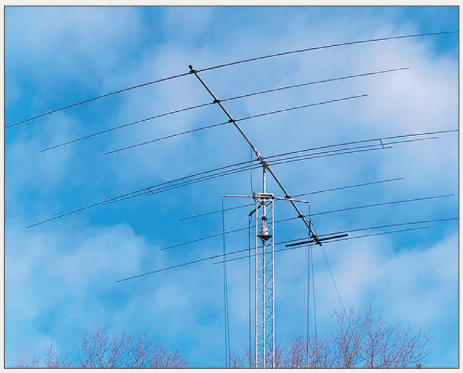


DXEngineering.com is loaded with detailed photos, specs, videos, and more!

Skyhawk™ and Skylark Antennas.

The legendary Skyhawk and Skylark antennas have been mainstays of international DXers and distinguished HF contesters for years. Both antennas have been brought under the DX Engineering manufacturing umbrella. That means these highly regarded antennas are built to DX Engineering's unflinching quality standards.

DX Engineering also carries all of the service parts you'll need to keep these antennas operating efficiently.


DXE-3X10

Skyhawk™ Yagi Antenna

With over 7 dB gain on the 20 and 15 meter bands, plus over 9 dB on the 10 meter band, the DX Engineering Skyhawk has become the choice of experienced HF DXers. A trap-free design ensures the best bandwidth possible. The use of aluminum and stainless steel hardware keeps the antenna's overall weight down to around 75 pounds. The Skyhawk has a 23' boom. It is easy to build and tune, and comes with a 2,500 watt feedpoint choke.

DXE-3X10 Skyhawk Yagi Antenna **$2,350.97**


DXE-2X7

Skylark™ Dual-Band Yagi

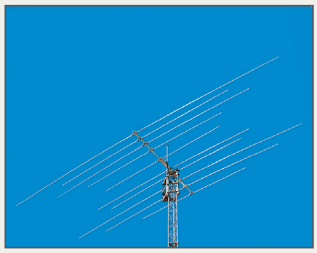
You get almost 8 dB gain on the 17 and 12 meter bands with the DX Engineering Skylark. The antenna also provides an SWR under 1.3 to 1 across each band, plus a front-to-back over 20 dB. It handles the legal limit plus! The Skylark's simple design eliminates any moving parts, which contributes to all-weather reliability. Aluminum elements and stainless steel hardware also promote corrosion resistance. With a boom length of just 16', the Skylark can handle winds up to 90 mph. A feedpoint choke is included.

DXE-2X7 Skylark Dual-Band Yagi **$1,999.98**

⚠ **WARNING:** For Proposition 65 information, see p. 3



MOO-TRI10-101520


MOO-PENTA10


MOO-MONO5-6HD

Momobeam Monoband & Multiband Yagis

Based in Sicily, Italy, Momobeam manufactures durable, high-performance monoband Yagis; dual-band, tri-band, four-band, and five-band Yagis; and more. The company's antennas are widely recognized for their solid construction, unique and compact designs, precision element spacing, simple assembly, and proven results, whether contesting or breaking through DX pileups. Most models include a choke balun.

Enter "Momobeam" at DXEngineering.com for more details.

Part Number	Description	Band(s)	Elements	Boom Length	Price
MOO-TETRA15	Dual-Feed Yagi	40/20/15/10	15	27.88'	**$6,271.99**
MOO-TETRA18	Dual-Feed Yagi	40/20/15/10	18	37.4'	**$7,469.99**
MOO-TRI10-101520	TRI10 Yagi	20/15/10	10	21.3'	**$2,230.99**
MOO-TRI12-101520	TRI12 Yagi	20/15/10	12	36'	**$3,609.99**
MOO-TRI16-101520	TRI16 Yagi	20/15/10	16	38'	**$4,572.99**
MOO-TRI7-101520	TRI7 Yagi	20/15/10	7	13.75'	**$2,039.99**
MOO-TRI9-121730	TRI9 Yagi	30/17/12	9	22.63'	**$3,609.99**
MOO-DUO9-1217	DUO9 Yagi	17/12	9	27.3'	**$2,885.99**
MOO-DUO9-1520	DUO9 Yagi	20/15	9	32.8'	**$3,249.99**
MOO-MONO-6-6	MONO6 Yagi	6	6	20.6'	**$722.99**
MOO-MONO2-40T	MONO2 40T Yagi	40	2	20'	**$2,886.00**
MOO-MONO3-17	MONO3 17 Yagi	17	3	14.4'	**$1,145.99**
MOO-MONO3-20	MONO3 20 Yagi	20	3	18.37'	**$1,389.99**
MOO-MONO4-10	MONO4 10 Yagi	10	4	15.78'	**$955.99**
MOO-MONO4-15	MONO 4 15 Yagi	15	4	21.3'	**$1,329.99**
MOO-MONO4-17	MONO4 17 Yagi	17	4	19.2'	**$1,569.99**
MOO-MONO4-20	MONO4 20 Yagi	20	4	28.2'	**$2,230.99**
MOO-MONO4-6	MONO4 6 Yagi	6	4	8.53'	**$327.99**
MOO-MONO5-10	MONO5 10 Yagi	10	5	25.6'	**$1,507.99**
MOO-MONO5-15	MONO5 15 Yagi	15	5	29.2'	**$2,280.99**
MOO-MONO5-20	MONO5 20 Yagi	20	5	41'	**$4,210.99**
MOO-MONO5-6	MONO5 6 Yagi	6	5	14.1'	**$482.99**
MOO-MONO5-6HD	MONO5 6HD Yagi	6	5	14.1'	**$905.99**
MOO-MONO6-6HD	MONO6 6HD Yagi	6	6	20.6'	**$1,121.99**
MOO-PENTA10	PENTA10 Yagi	20/17/15/12/10	10	12.8'	**$1,929.99**

More Momobeam models available online. Enter "Momobeam" at DXEngineering.com for more details.

RF Choke Baluns

New!

Momobeam's efficient broadband 50 Ω chokes help prevent common-mode current problems like increased receive noise, incorrect SWR readings, and interference to electronic devices at your station.



MOO-RFC-DBC-4KW RF Choke Balun, 1:1, 3-50 MHz, 4kW PEP, SO-239, Dual Big Core **$229.99**

MOO-RFC-DC-2KW RF Choke Balun, 1:1, 3-50 MHz, 2kW PEP, SO-239, Dual Core..... **$180.99**

MOO-RFC-SC-1KW RF Choke Balun, 1:1, 3-50 MHz, 1kW PEP, SO-239, Single Core..... **$144.99**

MOO-RFC-DU-10KW RF Choke, 1:1, 7-50 MHz, 10kW PEP, 50 Ω, 7/16 DIN Female to 2 Wires w/ M6 Ring Terminals..... **$361.99**

MOO-RFC-DU-3KW RF Choke, 1:1, 7-50 MHz, 3kW PEP, SO-239 to 2 Wires **$174.99**

MOO-RFC-DU-5KW RF Choke, 1:1, 7-50 MHz, 5kW PEP, SO-239 to 2 Wires w/ M6 Ring Terminals **$265.99**

MOO-RFC-LI-1KWSC RF Choke Line Insulator, 3-50 MHz, 1kW PEP, 2x SO-239 ..... **$144.99**

MOO-RFC-LI-2KWDC RF Choke Line Insulator, 3-50 MHz, 2kW PEP, 2x SO-239 ..... **$180.99**

Mounting Bracket Kits for Momobeam Choke/Balun

Kits include two UV-resistant brackets and two zip ties.

MOO-RFCSUPRB-1-5 Choke/Balun Bracket for 1.5" Round Boom. **$49.99**

MOO-RFCSUPRB-2 Choke/Balun Bracket for 2" Round Boom **$49.99**

MOO-RFCSUPSB3540 Choke/Balun Bracket for 35-40mm Square Boom. **$49.99**

MOO-RFCSUPSB7080 Choke/Balun Bracket for 70-80mm Square Boom **$49.99**

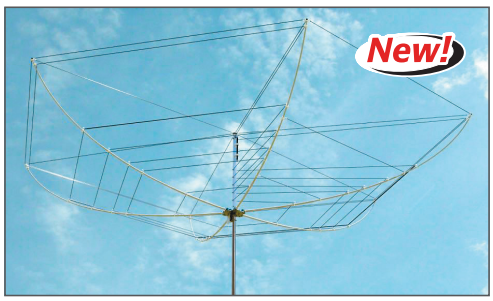
In-Stock Parts Typically Ship The Same Day.



JHEX-6 HF 6-Band Hex Beam Antenna

The JHEX-6 Hex Beam Antenna covers the 20, 17, 15, 12, 10, and 6 meter bands and is rated for 2,000W PEP, making it ideal for DXing and high-duty-cycle operation. Its modular, tool-free design allows for rapid, effortless installation by a single operator. With full-size elements on each band, the JHEX-6 delivers exceptional gain and directivity, and its 1:1 balun ensures optimal feedline performance. Other features include lightweight construction (26.5 lbs.) for easy transport, 10.43' turning radius, 21' overall diameter when fully assembled, and long-term reliability thanks to its precision-molded cable lugs, robust spreaders, aluminum-reinforced plug-in joints with butterfly screw connections, and a stainless steel base for dependable mast mounting, capable of handling harsh conditions.

NCE-CH0012516-M JHEX-6 HF 6-Band Antenna **$1,199.98**



HEX6B 6-Band Hexbeam Antenna

Covering 20, 17, 15, 12, 10, and 6 meters, the HEX6B follows the ideas of Steve Hunt, G3TXQ, the originator of the broadband version of the Hex Beam antenna. Refined by EAntenna, the mechanical construction of this version uses their long-standing antenna engineering experience, resulting in an efficient, lightweight portable antenna which can be quickly assembled by a single operator in about 30 minutes for DXpeditions and vacation operations. Ready-to-use wires and ropes are fixed to the fiberglass struts, so no tuning is required. Further, the beam is stretched to its fixed size at all times, so there is no sag on the wires. Designed as a coaxial transformer and balun, the center support provides a good match on all bands, with only one feedline needed. Other features include:

- 3 dBd or better forward gain
- Front-to-back ratio between 13 and 22 dB
- 1.5:1 or better SWR, all bands except 10M (2:1 or better)
- Each band can be used in full bandwidth without a tuner
- 5 kW maximum power
- Fiberglass tubing is double coated against UV radiation

Enter "HEX6B" at DXEngineering.com for many more details.

EAN-17820-HEX6B 6-Band Hexbeam Antenna; **$851.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

InnovAntennas

InnovAntennas

DX Engineering is proud to be the exclusive North American distributor of exceptionally crafted, high-performance InnovAntennas antennas, produced in Herxheim, Germany by WiMo for InnovAntennas Limited UK. Several models of these internationally popular antennas are now available at DX Engineering, including DXR Series Multiband HF Beams. Choose from nine models of DXR series Yagis, featuring short booms (10.2' to 12') with full-size elements or capacity-loaded shortened elements—all boasting excellent performance; low maintenance with no movable electrical parts; designs that deliver the best possible matching over a wide band range; 1.97" x 1.97" square booms with 0.078" wall thickness that require no bracing; use of UV-resistant insulators, stainless steel mounting hardware, and aviation-grade aluminum; and, in most cases, no need for an antenna tuner (SWR minimum can be precisely set by adjusting the element lengths). These antennas require no traps, matching links, or hairpins. Plus, only one feedline for all bands is connected directly to the solid distribution rails of the fed elements, making installation on a mast with a rotator easy. When limited space is a concern, "Super Compact" models, with the longest element shortened by a capacity hat (maximum length of 28.9'), offer a reduced turning radius.

IVA-DXR3	20/15/10M 6-Element Yagi, 10.2' Boom	**$1,439.99**
IVA-DXR3C	Compact 20/15/10M 6-Element Yagi, 10.2' Boom	**$1,439.99**
IVA-DXR4C	Compact 20/15/10/6M 8-Element Yagi, 10.2' Boom	**$1,439.99**
IVA-DXR5	20/17/15/12/10M 9-Element Yagi, 10.8' Boom	**$1,775.99**
IVA-DXR5C	Compact 20/17/15/12/10M 9-Element Yagi, 10.8' Boom	**$1,775.99**
IVA-DXR6	20/17/15/12/10/6M 11-Element Yagi, 11.5' Boom	**$2,097.99**
IVA-DXR6C	Compact 20/17/15/12/10/6M 11-Element Yagi, 11.5' Boom	**$1,829.99**
IVA-DXR7	20/17/15/12/10/6/4M 14-Element Yagi, 12' Boom	**$1,899.99**
IVA-DXR7C	Compact 20/17/15/12/10/6/4M 14-Element Yagi, 12' Boom	**$1,899.99**

More from InnovAntennas

Like its DXR Series, all of InnovAntennas' HF, UHF, and VHF antennas are the result of applying the latest 64 bit commercial-grade Numerical Electromagnetic Calculation engines and advanced Particle Swarm Optimizations to achieve cutting-edge, low-noise designs that let amateur radio operators hear weak signals better while ensuring long-lasting performance. Here are a few more models to choose from:

IVA-BOLPA-10	10-Element HF Band Optimized Log Periodic Antenna, 14-30 MHz, 25.3' Boom	**$2,190.00**
IVA-DB6-6-4	Compact 6/4M 6-Element Dual-Band Yagi, 3.85' Boom	**$229.99**
IVA-DELPA-13	13-Element HF Log Periodic Dipole Array, 10-54 MHz, 37.7' Boom	**$4,100.00**
IVA-DXC-140	40M Rotatable Dipole, 19.7' Boom	**$1,128.99**
IVA-DXC-240	2-Element Compact 40M Yagi, 23' Boom	**$2,160.00**

1712DUO 17/12M 4-Element Yagi

This WARC band compact directional antenna for 17/12M has no reflectors and features one director per band. An LFA/dipole hybrid driver lies flat on its 5.1' boom. It has a second active element intentionally positioned for open-sleeve coupling with the hybrid driver. Consequently, this antenna requires only one feedline, avoiding potential interference and tuning issues caused by multiple feedlines.

IVA-18480-0004 1712DUO 17/12M 4-Element Yagi, 5.1' Boom **$829.99**



IVA-DXR3

OP-DES FM Broadcast 88-108 MHz Yagis

OP-DES (Opposing Phase Driven Element System) Yagi directional antennas are specially designed for better gain, great front-to-back and patterns with fewer side lobes, to dramatically improve your reception experience by helping your tuner or receiver achieve a new level of performance. Driven elements are angled backward toward the reflector, parallel to the boom. Opposing phase in the ends of the driven element achieves an exceptionally clean directional pattern with much better side rejection than other designs. InnovAntennas says users can expect up to 3 kW FM power with low SWR. Further, its design achieves a low feedpoint impedance that allows direct connection of either 50 or 75 Ω coaxial cable, so the mounting complexity and signal loss of a transformer balun is eliminated.

IVA-18484-0108	FM Broadcast 88-108 MHz OP-DES Yagi, 8-Element, 9.9 dBi Gain, 6.5' Boom	**$299.99**
IVA-18484-0145	FM Broadcast 88-108 MHz OP-DES Yagi, 11-Element, 12.6 dBi Gain, 12' Boom	**$569.99**
IVA-18484-0110	FM Broadcast 88-108 MHz OP-DES Yagi, 14-Element, 10-13 dBi Gain, 18.4' Trussed Boom	**$519.99**

VHF LPDA Log Periodic Dipole Arrays

These efficient, rear-mounted VHF LPDAs feaure 50 Ω direct-feed high power handling, consistent impedance over their entire frequency range, and directional gain for improved signal strength.

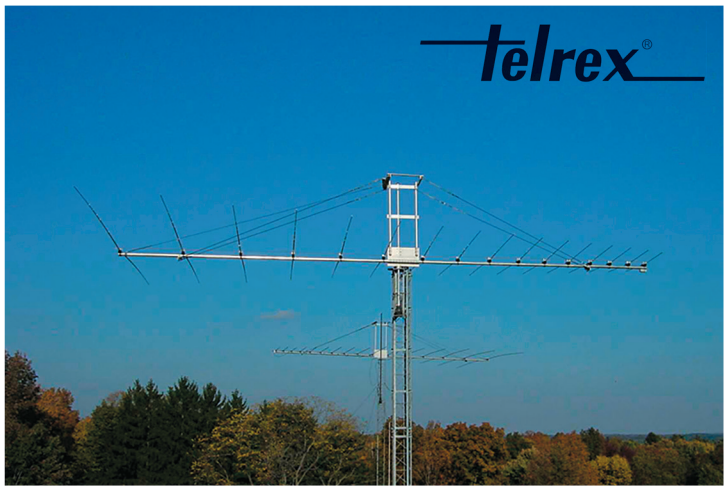
IVA-18486-0115	VHF LPDA, 100-750 MHz, 14-Element	**$466.99**
IVA-18486-0117	VHF LPDA, 100-1,300 MHz, 22-Element	**$547.99**

LFA Loop Fed Array Quad Beam Antennas for 10/11M

These models feature the LFA-Q (Loop Fed Array Quad) that uses top and bottom booms and through-boom LFA Yagi-style loops arranged vertically for every element. This different, rugged design achieves improved gain for a given length of boom. The compact LFA-Q achieves great rejection to the sides and the rear of the antenna while retaining excellent gain, front-to-back ratio, and SWR bandwidth across the band.

IVA-18487-0021	LFA-Q-2, 10/11M, 2.36' Tall	**$519.99**
IVA-18487-022	LFA-Q-3, 10/11M, 10.5' Tall	**$1,419.99**
IVA-18487-0020	LFA-Q-4, 10/11M, 27' Tall	**$1,269.99**

Enter "InnovAntennas" at DXEngineering.com for more details.



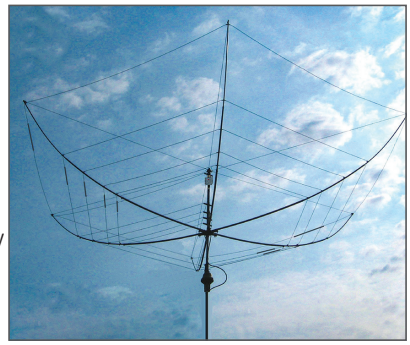
Log Periodic Antenna

Designed for the serious operator who wants the best, this professional-grade LPDA antenna is tailored to the 20, 17, 15, 12 and 10 meter bands. If you have exact demands for your antenna, there is simply no better option than the Telrex®. It has 16 elements on a 42' boom, handles 5,000W and weighs 350 pounds. With 7.5 dBi gain and a bandwidth of 16 MHz at 2:1 SWR, this antenna is an excellent performer—even for commercial and industrial installations. This Log Periodic Antenna is built on demand. Get complete antenna specifications at DXEngineering.com.

TEL-143042-135 Log Periodic Dipole Array Antenna **$10,000.00**

To take advantage of our Beat-a-Price Guarantee, please Contact Us!

DXE-XB-5 Hexx Beam

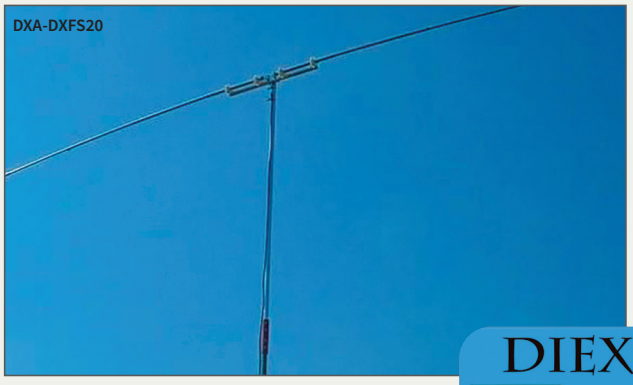


The all-new DX Engineering DXE-XB-5 Hexx Beam is a lightweight directional HF antenna for permanent installations or temporary operations on 20, 17, 15, 12 and 10 meters. Full legal power handling and high performance is achieved with full-size pre-cut wire elements, our patented* balanced feeder system, and a new 1:1 balun with mount included. Specialized hardware, a new mast plate, better fiberglass, and simplified assembly make the new XB-5 model DX Engineering's best Hexx Beam ever.

- Easier assembly with fewer parts
- Balun and mount included
- Heavy-duty mast plate
- Stronger fiberglass without slits
- Simple tuning adjustment (if needed)
- Improved SWR band coverage
- Pre-sized and pre-drilled element spacer insulators
- Pre-made heavy duty "ice" support ropes with thimbles and stainless steel carabiners

In memoriam of Steve Hunt, G3TXQ (SK), who pioneered the broadband Hexbeam design, the new XB-5 Hexx Beam builds on the success of the Mark II version perfected by DX Engineering over a decade ago. The XB-5 Hexx Beam now has simplified spacers for the full-length wire elements with no losses, improved SWR bandwidth and great front-to-back performance. The fully illustrated manual makes installation easy. Enjoy extraordinary receive capabilities and work more stations with the XB-5. ***US Patent No. 8,669,911 and D624,060 and British Patent Number GB248003 B.**

DXE-XB-5 5-Band HF Hexx Beam Antenna **$1,227.92**



DIEX

Rotatable Dipole HF Antennas

For two decades, Brazilian-based DIEX Antennas has been providing a proven solution for space-limited operators. The company's precision-crafted single-band full size, multiband shortened, single-band coil shortened, two-band coil shortened, and multiband trap shortened rigid rotatable dipole HF antennas are built with quality materials to withstand tough environments, provide good directionality depending on installed height above ground, and offer the flexibility to make adjustments to set the lowest SWR to a specific frequency. DIEX antennas are packed partially assembled, saving time and effort. Power handling below is further limited if using an antenna tuner.

Full Size Rigid Rotatable Dipoles

Built as a full size resonant dipole, these single-band aluminum tubing antennas provide excellent performance and are handled with a lighter tower and smaller rotator, offering an economical alternative to a Yagi. Power handling is 1,500W+ PEP.

DXA-DXFS6	Full Size 6M, 9.51'	**$115.99**
DXA-DXFS10-11	Full Size 10M, 16.73'	**$135.99**
DXA-DXFS12	Full Size 12M, 19.03'	**$139.99**
DXA-DXFS15	Full Size 15M, 22.31'	**$149.99**
DXA-DXFS17	Full Size 17M, 26.90'	**$179.99**
DXA-DXFS20	Full Size 20M, 33.14'	**$209.99**

Two-Band Coil Shortened Rigid Rotatable Dipoles

These dipoles provide coil-shortened specialized coverage of two non-adjacent HF bands. Power handling is 300W PEP SSB and 100W for digital.

DXA-DXA1040	Coil Shortened 40M, Full Size 10M, 26.25'	**$215.99**
DXA-DXA1080	Coil Shortened 80M, Full Size 10M, 29.52'	**$239.99**
DXA-DXA1580	Coil Shortened 80M, Full Size 15M, 38.71'	**$309.99**
DXA-DXA1740	Coil Shortened 40M, Full Size 17M, 36.41'	**$255.99**

Single-Band Coil Shortened Rigid Rotatable Dipoles

These dipoles provide coil-shortened specialized coverage for a single HF band. Power handling is 300W PEP SSB and 100W for digital for the 20, 30, and 60M models; 1,000W PEP for 80M; and 1,500W PEP for 40M.

DXA-DXM20	Coil Shortened 20M, 16.73'	**$215.99**

Multiband Trap Shortened Rigid Rotatable Dipoles

These dipoles offer high-performance multiband operations and make an excellent choice when there's not enough space for a full size dipole or Yagi. Power handling is 1,500W PEP SSB.

DXA-DXS1	Trap Shortened 20/15/10M, 25.59'	**$412.99**
DXA-DXS1-40	Trap Shortened 40/20/15/10M, 34.45'	**$765.99**
DXA-DXS16	Trap Shortened 20/15/10/6M, 25.59'	**$525.99**

Multiband Shortened Rigid Rotatable Dipoles

These multiband shortened dipoles deliver excellent performance (2.4 dBi gain) when space is at a premium. Power handling is 1,500W PEP.

DXA-DXW1	Shortened Dipole 17/12M, 21.65'	**$295.99**
DXA-DXW1-30	Shortened Dipole 30/17/12M, 34.81'	**$459.99**
DXA-DXW16	Shortened Dipole 17/12/6M, 21.65'	**$409.99**

Monoband 2-Element Shortened Dipole, 2,000W PEP

DXA-DXM240	Shortened Dipole, 40M, 2-Element, 22.3'	**$1,129.99**

Dual-Band 3-Element Directional Antennas, 1,500W PEP

DXA-DXW3	Directional Antenna, 17/12, 3-Element, 23.1'	**$1,029.99**
DXA-DXW3-30	Directional Antenna, 17/12 + 30M Kit, 3-Element, 34.7'	**$1,319.99**
DXA-DXW36	Directional Antenna, 17/12 + 6M Kit, 3-Element, 23.1'	**$1,141.99**
DXA-DXW36-30	Directional Antenna, 17/12 + 6M & 30M Kit, 3-Element, 34.7'	**$1,432.99**

Full-Size 3-Element Monoband Directional Antennas, 2,000W PEP

DXA-3DXFS10	Directional Antenna, 10M, 3-Element, 17.06'	**$435.99**
DXA-3DXFS12	Directional Antenna, 12M, 3-Element, 19.7'	**$565.99**
DXA-3DXFS15	Directional Antenna, 15M, 3-Element, 23'	**$849.99**
DXA-3DXFS17	Directional Antenna, 17M, 3-Element, 26.9'	**$915.99**
DXA-3DXFS20	Directional Antenna, 20M, 3-Element, 34.3'	**$995.99**
DXA-3DXFS6	Directional Antenna, 6M, 3-Element, 9.7'	**$379.99**

Full-Size 4-Element Monoband Directional Antennas, 2,000W PEP

DXA-4DXFS10	Bi-Directional Dipole, 10M, 4-Element, 17.3'	**$799.99**
DXA-4DXFS6	Directional Antenna, 6M, 4-Element, 9.8'	**$475.99**

Full-Size 5-Element Monoband Directional Antennas, 2,000W PEP

DXA-5DXFS10	Directional Antenna, 10M, 5-Element, 18.2'	**$959.99**
DXA-5DXFS11	Directional Antenna, 11M, 5-Element, 18.3'	**$1,025.99**
DXA-5DXFS6	Directional Antenna, 6M, 5-Element, 9.7'	**$679.99**

Triband 3-Element Directional Antennas, 1,500W PEP

DXA-DXS3	Directional Antenna, 20/15/10M, 3-Element, 27.7'	**$1,279.99**
DXA-DXS3-40	Directional Antenna, 20/15/10 + 40M Kit, 3-Element, 34.4'	**$1,632.99**
DXA-DXS36	Directional Antenna, 20/15/10 + 6M Kit, 3-Element, 27.7'	**$1,392.99**
DXA-DXS36-40	Directional Antenna, 20/15/10 + 6M & 40M Kit, 3-Element, 34.4';	**$1,745.99**

WARC Band Shortened Vertical Antennas, 1,500W PEP

DXA-DXWV1	Shortened Vertical, 17/12, 10.1'	**$315.99**
DXA-DXWV1-30	Shortened Vertical, 30/17/12, 16.4'	**$415.99**

Shortened Vertical Triband and Quadband, 1,500W PEP

DXA-DXSV1	Shortened Vertical, 20/15/10 11.5'	**$379.99**
DXA-DXSV1-40	Shortened Vertical, 40/20/15/10, 16.4'	**$579.99**

Log Periodic 20-10M Antenna, 2,000W PEP, 700W Continuous

DXA-ALP8	20/17/15/12/11/10, 8-Element, 38'	**$1,699.99**

InnovAntennas

10M and 6M Yagis

Designed by InnovAntennas' founder, Justin, G0KSC, the robust 10M & 6M Yagis deliver excellent gain and sturdy, reliable performance even in adverse weather conditions. Fed by a single coaxial cable, these antennas are constructed from two independent and nested Yagi systems, allowing them to have a compact size and a relatively short boom. Both antenna systems use a common antenna cable, avoiding the interference that can result when multiple feedlines are employed. Models are available with 6, 8, 9, 11, and 13 elements. Stainless steel hardware included.





IVA-18485-1061	10M and 6M Yagi, 3+3 Interlaced Elements, 8.2' Boom	**$535.99**
IVA-18485-1060	10M and 6M Yagi, 4+4 Interlaced Elements, 12.1' Boom	**$829.99**
IVA-18485-1062	10M and 6M Yagi, 4+5 Interlaced Elements, 13.8' Boom	**$699.99**
IVA-18485-1063	10M and 6M Yagi, 5+6 Interlaced Elements, 22' Boom	**$949.99**
IVA-18485-1064	10M and 6M Yagi, 6+7 Interlaced Elements, 29' Boom	**$1,066.00**

To take advantage of our Beat-a-Price Guarantee, please Contact Us!

(((ON ALL BANDS)))
AN AMATEUR RADIO BLOG POWERED BY DX ENGINEERING

Check out our blog, ***OnAllBands.com***, for articles on upcoming DXpeditions, what's new in contesting, digital operations, and a range of other topics.

Want more? We've got loads of tech videos and interviews on the DX Engineering YouTube channel. Of course, when you want personal attention, our experts are only an email or phone call away.

Moxon Yagi for 10 and 6 Meters

WIMO

This EAntenna's horizontally polarized, directional antenna (model 2850MO) is a great choice for making Sporadic-E QSOs on 10 and 6 meters, as well as for local and regional weak-signal operations on SSB, CW, and digital modes. With the ability to fit well on an existing mast where space is limited, this relatively compact dual-band antenna can be an ideal solution for property-restricted areas and for temporary or portable operations. The five-element Moxon Yagi features a short boom (5.9'); gains of 8.3 dBi on 10M, 10.5 dBi on 6M; a flat SWR curve over a wide bandwidth; 3,000W power rating; and front-to-back-ratio of 12 dB on 10M, 21 dB on 6M. It requires only one coax feedline and includes a 3kW balun with SO-239 connector.



WMO-17824-2850	Moxon Yagi for 10/6 Meters	**$469.99**

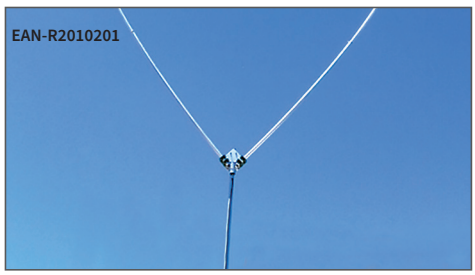
⚠ **WARNING:** For Proposition 65 information, see p. 3



Big Wheel 6M, 2M and 70cm Antennas

These omni-directional, horizontally polarized antennas make an ideal companion to deploy along with a directional beam antenna to make sure you don't miss that rare contact that may otherwise be lost. Great for weak signal work in SSB, CW or digital modes, they are constructed from stainless aluminum and stainless steel hardware. These unique antennas come in 6M (50-52 MHz, 1,000W, 141.7" diameter), 2M (144-146 MHz, 500W, 47.2" diameter), and 70cm (430-440 MHz, 200W, 13.4" diameter) versions. Users can expect gains of around 3dBd (vertical stacking of two Big Wheels will help you achieve omni-directional gain of approximately 5dBd using a monoband power divider or coaxial phasing harness that connects two same-band antennas to one coax feedline, sold separately). Antennas feature low-loss Type-N connectors. **Enter "WiMo Big Wheel" at DXEngineering.com for more details.**

WMO-18009	Big Wheel 6M Antenna	**$299.99**
WMO-18007	Big Wheel 2M Antenna	**$249.99**
WMO-18008	Big Wheel 70cm Antenna	**$194.99**







Delta Loop Antennas

A delta loop antenna is an efficient way to get directional multi-band HF coverage, without installing a large HF Yagi or dipole. Made with aluminum tubing, these lightweight antennas are full-size vertical loops that deliver excellent low noise characteristics. When installed with a rotator, you can peak or null signals for the best reception. Both antennas handle 1,000 watts and require an antenna tuner. Check out the antenna tuners section of this catalog for compatible models. Wide range tuner required.

Part Number	Bands	Gain	Price
EAN-R2010201	30/20/17/15/12/10M	6.8 dBi	**$499.99**
EAN-R2010202	20/17/15/12/10M	6.5 dBi	**$355.99**

X-Quad Antennas for 144-146 and 430-440 MHz



A refined version of VHF and UHF cross-polarized Yagis, WiMo's lightweight and short-length X-Quad (well-known in Europe as a multi-element quad) comes loaded with special features made with amateur operators in mind: switchable polarization plane (horizontal/vertical/circular right/circular left/diagonal); high gain compared to other antenna forms due to its stacked elements, boom length, and compact design; end-boom or mid-boom centered mounting capabilities; and usefulness in operating satellites. The X-Quad can be optimally used for the desired polarization by simply changing the feed. All secondary elements (directors, reflectors) are active, which allows for its small profile. The X-Quad's elements are all electrically conductively connected with boom and cable outer sheath, eliminating interference from static charges. Antennas feature aluminum boom and elements, low-loss Type-N female connectors, and stainless steel hardware.

WMO-18010	X-Quad Antenna, 2M, 12 Elements, 30" Transport Length, Type-N Female Connectors	**$349.99**
WMO-18011	X-Quad Antenna, 70cm, 18 Elements, 25.6" Transport Length, Type-N Female Connectors	**$349.99**

Remote Polarization Switches

Developed exclusively for WiMo in the RF lab of SSB-Electronics, four models of mast-mountable and weatherproofed Remote Polarization Switches (for 2M and 70cm) allow users to easily select polarization plane (horizontal, vertical, right-hand circular and left-hand circular) on the X-Quad, or other third-party cross-polarized Yagis, for maximum convenience and performance. Remote operations require an additional 4-conductor DC control cable, sold separately.

WMO-18080	Remote Polarization Switch, VHF, 300W	**$355.99**
WMO-18081	Remote Polarization Switch, VHF, 800W	**$419.99**
WMO-18082	Remote Polarization Switch, UHF, 200W	**$399.99**
WMO-18083	Remote Polarization Switch, UHF, 600W	**$399.99**

2M and 70cm Circular Polarization Phase Lines

For use with X-Quad Antennas or other cross-polarized Yagis, these phase lines combine the vertical and horizontal elements into either right-hand or left-hand circular polarization, dependent upon beam-driven element position. Each cable set comes with two male Type-N connector cables, one for each polarization element, combined into one female Type-N connector for the main 50 ohm coaxial feedline to the station. (Not used with Remote Polarization Switches.)

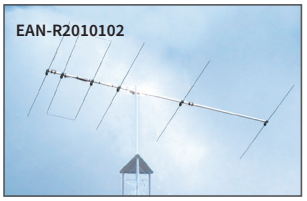
WMO-18049	Circular Polarization Phase Line for 70cm	**$99.99**
WMO-18051	Circular Polarization Phase Line for 2M	**$99.99**

VHF and UHF Directional Antennas

These antennas are built with only the highest quality stainless steel hardware and aircraft grade aluminum, using cutting-edge computer modeling and optimization techniques. EAntenna's precision construction results in state-of-the-art VHF and UHF antennas with excellent durability and wind survival capabilities.

Part Number	Band(s)	Max. Gain	Max. F/B	Boom Length	Price
EAN-R2010250	2M/70cm	8.4 dBi	11 dB	2.30'	**$149.99**
EAN-R2010251	2M/70cm	10.7 dBi	11.7 dB	3.94'	**$129.99**
EAN-R2010252	2M/70cm	10.7 dBi	18.7 dB	4.95'	**$149.99**
EAN-R2010149	2M	14.2 dBi	25.2 dB	14.75'	**$449.99**
EAN-R2010103	2M	15.3 dBi	28.6 dB	20.16'	**$479.99**
EAN-R2010400	6M	6 dBi	25 dB	2.95'	**$199.99**
EAN-R2010106	6M	9.4 dBi	23 dB	9.85'	**$259.99**
EAN-R2010109	6M	8.6 dBi	14.4 dB	4.6'	**$331.99**
EAN-R2010102	6M	10.6 dBi	24.8 dB	14.68'	**$366.00**

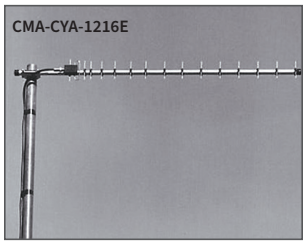




VHF/UHF Beam Antennas

Comet offers you two stellar Yagi antennas, one for the 6M band and one for the 23cm band. They're compact and lightweight, and have stainless steel hardware so they're rugged enough to last for years. Installation is easy, and the CYA-1216E comes pre-assembled.

CMA-CYA-1216E	23cm Beam Antenna, 5.25' Boom, 16-Element, 16.6 dBi Gain	**$207.95**
CMA-CA-52HB4	6M Wideband Beam Antenna, 10.5' Boom, 4-Element, 10.5 dBi Gain	**$219.95**



Log Periodic Array Antennas

These band-optimized log periodic array (BOLPA) models feature improved front-to-back ratio and gain compared to conventional 200 Ω LPDAs. These dipole arrays use a direct 50 Ω feedpoint. Models are available with 2, 3, or 4 elements. All antennas are built with top-grade materials, including aircraft aluminum booms and elements, UV-resistant insulators, and stainless steel hardware. Models undergo extensive testing and modeling to ensure stellar performance. **Enter "IVA Log Periodic" at DXEngineering.com for more details.**

IVA-18481-LPA2	2-Element Log Periodic, 26-30 MHz, 18' boom	**$489.99**
IVA-18481-LPA3	3-Element Log Periodic, 24-30 MHz, 11.48' boom	**$665.99**
IVA-18481-LPA4	4-Element Log Periodic, 21-30 MHz, 7.87' boom	**$1,194.99**



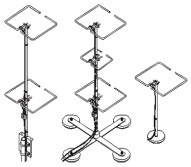


VHF/UHF Antennas

M2 Antennas uses computer modeling technology, weather resistant materials and CNC-machined elements to create the best performing antennas possible. Here is the complete line of its VHF/UHF offering. Find full details at DXEngineering.com.

Part Number	Band	Gain	Elements	Boom	Price
Yagi Antennas					
MSQ-6M3	6M	8.2 dBi	3	6.8'	**$385.99**
MSQ-6M3SS	6M	8.1 dBi	3	5.5'	**$374.99**
MSQ-2M3SS	2M	8.3 dBi	3	3.1'	**$239.99**
MSQ-2M4X	2M	9.6 dBi	4	4'	**$229.99**
MSQ-2M7X	2M	12.3 dBi	7	8.9'	**$258.99**
MSQ-2M9X	2M	14.1 dBi	9	14'	**$403.99**
MSQ-2M12	2M	14.6 dBi	12	19.5'	**$578.99**
MSQ-2225SS	1.25M	10.3 dBi	5	3'	**$229.99**
MSQ-22210EZ	1.25M	14.4 dBi	10	9.75'	**$373.99**
MSQ-4406SS	70cm	11 dBi	6	3'	**$188.99**
MSQ-440-11X	70cm	13.4 dBi	11	5'	**$258.99**
MSQ-440-18X	70cm	16.6 dBi	18	11'	**$300.99**
Circular Polarity Beam Antennas					
MSQ-2MCP14	2M	12.3 dBic	14	10.5'	**$662.99**
MSQ-436CP30	70cm	15.5 dBic	30	9.75'	**$643.99**

MSQ-2MHOLOOP



HO LOOP Antennas

These antennas give you excellent SSB and CW communications with a reach of over 200 miles. Excellent for mobile or base weak-signal stations, these antennas offer omnidirectional coverage without a rotator. HO LOOP Antennas' horizontal polarity means you get upwards of 5 dB ground gain over a traditional vertical antenna. Plus, the higher you mount your HO LOOP, the more gain you achieve.

The Mast Bracket kit allows you to install your HO LOOP antenna on any 1.25 to 2 inch diameter mast. It includes all the brackets, cradles and hardware you'll need. For 6M HO LOOP antennas, be sure to order the additional support bracket. Stacked gain with optional items.

MSQ-2MHOLOOP 2M HO LOOP, 4 dBd Gain (10')/ 8 dBd Gain (6.83' & 11') **$143.99**

MSQ-6MHOLOOP 6M HO LOOP, 4.2 dBd Gain (11')/8.2 dBd Gain (40' and 52') **$229.99**

MSQ-MASTBRKTKIT HO LOOP Base Installation Hardware **$54.99**

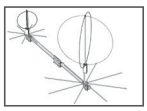


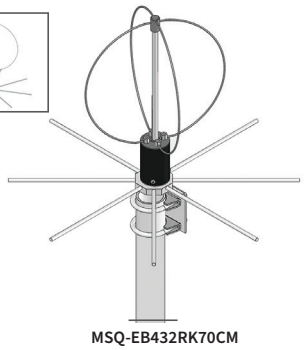
VHF/UHF Log Periodic Antennas

If you don't have the space (or friendly neighbors) to put up several VHF and UHF antennas, Create offers you an uncompromising single antenna option. Using 21 elements, the wideband directional CLP-5130-1N gets you on the 1.25, 2 and 6 meter bands, plus the 23, 33 and 70cm bands. It handles 500 watts and gives you an average gain of 10 dBi. With a 6.66 foot boom length, it's compact enough to go almost anywhere and at 11 pounds, it's perfect for most rotators. You can also use this antenna for VHF/UHF TV, FM broadcast, aviation and government communication applications. Create's CLP-5130-2N is similar to the 1N, except it provides 11 dBi of gain and doesn't offer coverage on the 6 meter band.

CAE-CLP-5130-1N VHF/UHF Log Periodic Antenna, 6-Band **$519.99**

CAE-CLP-5130-2N VHF/UHF Log Periodic Antenna, 5-Band **$379.99**





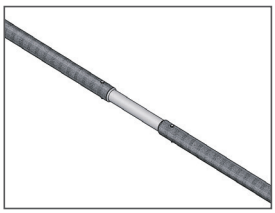
Eggbeater Satellite Antennas

Shoot for the stars with antennas that let you contact other Hams using Amateur Satellites and communicate directly with the International Space Station! These antennas are equally effective in your base or mobile station. They produce smooth, omnidirectional horizontal polarity patterns at the horizon. Above the horizon, the pattern transforms to right-hand circular for excellent OSCAR communications. The small physical footprint of these antennas allows many mounting options at a budget-friendly price.

MSQ-EB144RK2M Satellite Eggbeater Antenna, 2 Meter Band **$387.99**

MSQ-EB432RK70CM Satellite Eggbeater Antenna, 70cm Band **$358.99**

MSQ-SATPACK1 Satellite Antenna Package, 2M and 70cm, Cross Boom **$719.99**

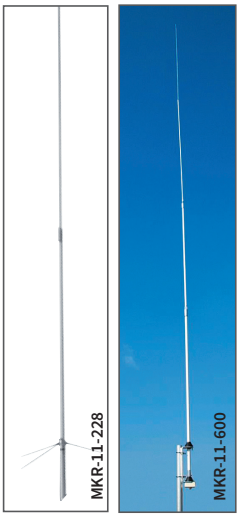


Satellite Antenna Cross Boom

M2 Antennas' Cross Boom helps you mount multiple Yagi (or Eggbeater) antennas. Thanks to its heavy-duty construction, the cross boom won't distort your antenna patterns. Use the boom for critical VHF/UHF/SHF satellite uplink-downlink systems, EME (moon bounce) and long-range terrestrial operations. It features a super-strong 1.625" solid aluminum rod center section with two 2" O.D, 60" long, 1/4" thick-wall fiberglass tubing sections to secure large systems or arrays. Built for years of slip-free service, the cross boom eliminates the worry of crushing, cracking or splintering the center portion of an all-fiberglass cross boom.

Enter "M2 Solid Cross" at DXEngineering.com for more applications.

MSQ-CB60 Satellite Antenna Cross Boom, Heavy-Duty, 11' **$389.99**



MKII 2M/70cm Base Vertical Antennas

Constructed from durable, weatherproof fiberglass, these compact base station dual-band antennas are pre-tuned to operate efficiently across 144-146 MHz and 430-440 MHz. All models come with three rigid radials—6.7" for the 2241/228 and 7.48" for 2301. Mast mounting brackets and hardware included. The 150W 2241 model gain numbers are 3 dBi (2M) and 6 dBi (70cm); the 200W 228 model has gains of 4.5 dBi (2M) and 7.5 dBi (70cm); the 200W 2301 Super Gainer version has gains of 6.8 dBi (2M) and 9.2 dBi (70cm). All models have VSWRs of 1.5:1 or better. Also suitable for portable use.

MKR-11-2241 MKII VHF/UHF Vertical, Single Radome, 150W, 4.27'; **$127.99**

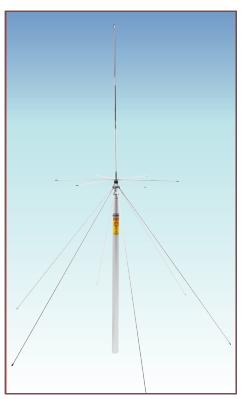
MKR-11-228 MKII VHF/UHF, Vertical, Two Section Radome, 150W, 5.09' **$152.99**

MKR-11-2301 MKII Super Gainer VHF/UHF Vertical, Two Section Radome, 200W, 8.2' **$203.99**

GAP-H Half-Wave Vertical Antenna

Crafted from durable aluminum, Moonraker's GAP-H vertical is designed to cover the 10M and most of the 11M CB band within the 26-30 MHz frequency range. Features of this 18' radialess (no ground plane) antenna include gain of 2.4 dBi, minimum VSWR of 1.5:1, 500W power handling, and easy mounting on a standard-sized mast with included U-bolts.

MKR-11-600 GAP-H Half-Wave Vertical Antenna, 10M/11M **$125.99**



DS-150S Discone Base Antenna

If you're living in an apartment where space is limited or in a community where larger antennas are frowned upon, then this compact antenna will let you stay in the game. It is less than five feet high and three feet wide, but covers 25 to 1300 MHz (receive). Transmitting is possible on the 6M, 2M, 70cm and 33cm bands, plus 1.2 GHz without a tuner. This antenna could be the perfect solution for your scanner or VHF/UHF transceiver.

CMA-DS-150S Discone Base Antenna **$161.49**

In-Stock Parts Typically Ship The Same Day.

⚠ **WARNING:** For Proposition 65 information, see p. 3

HUSTLER

6 Meter VHF Monoband Vertical Antenna

It's an excellent 6M, 5/8-wave vertical antenna that delivers up to 6.4 dBi gain, which makes it perfect for SSB operation. It's got a full-size radiator with a lower takeoff angle, which means the power is directed closer to the horizon where you want it. Use the tuned radials at the antenna's base to achieve a bandwidth over 4 MHz and a SWR of 2:1 or less. This antenna also has a shunt-fed matching system, which drains static to dramatically reduce unwanted noise. The antenna stands about 8 feet tall and will handle 300 watts.

HSR-G-3754 6M VHF Monoband Vertical Antenna..... **$398.99**



G-Series Vertical Antennas

Hustler's acclaimed G-Series antennas deliver impressive performance in easy-to-assemble packages. These antennas represent the perfect union of price, coverage and results. They're made from high-quality materials, so they stand up to Mother Nature and give you years of reliable use.

Part Number	Band(s)	Gain	Power Handling	Height	Price
HSR-G7-144	2M	7.0 dBd	600 W	15.33'	**$519.99**
HSR-G6-144B	2M	6.0 dBd	600 W	9.75'	**$339.99**
HSR-G3-144	2M	3.0 dBd	200 W	7.42'	**$158.99**
HSR-G7-220	1.25M	7.0 dBd	1,000 W	9.75'	**$519.99**
HSR-G6-440	70cm	6.0 dBd	100 W	7.25'	**$459.99**
HSR-G6-270R	2M/70cm	6.0 dBd	100 W	7.50'	**$494.99**

COMET

Vertical VHF/UHF Antennas

Reach out further and get maximum performance with Comet Antennas. These antennas all feature durable construction, so they are ideal for rough-weather environments. There are fiberglass and aluminum options for many applications and every antenna comes with Comet's superior quality, coverage and gain. The complete specs on every Comet Antenna can be found at DXEngineering.com.



Part Number	Coverage	Gain	Connector	Height	Price
CMA-GP-21	23cm	14.9 dBi	Type N (F)	8'	**$227.95**
CMA-KP-20	33cm	9.2 dBi	Type N (F)	8'	**$227.95**
CMA-CA-712EF	70cm	9 dBi	SO-239	10.5'	**$222.95**
CMA-CA-F72GF	70cm	5.5 dBi	Type N (F)	3.5'	**$149.95**
CMA-CA-GMRS	GMRS/FRS	9 dBi	Type N (F)	10.5'	**$110.95**
CMA-CA-SUPER22	1.25M	6.6 dBi	SO-239	8'	**$185.95**
CMA-CA-F22GF	2M	5.5 dBi	SO-239	8.9'	**$245.95**
CMA-CA-F22GFN	2M	5.5 dBi	Type N (F)	8.9'	**$245.95**
CMA-CFM-95SL	88-108 MHz	3.4 dBi	SO-239	7.7'	**$133.95**
CMA-GP-1	2M/70cm	3/6 dBi	SO-239	4'	**$99.95**
CMA-GP-3	2M/70cm	4.5/7.2 dBi	SO-239	5.9'	**$119.95**
CMA-GP-6	2M/70cm	6.5/9 dBi	SO-239	10.1'	**$199.95**
CMA-GP-9	2M/70cm	8.5/11.9 dBi	SO-239	18.5'	**$324.95**
CMA-GP-9N	2M/70cm	8.5/11.9 dBi	Type N (F)	18.5'	**$324.95**
CMA-CX-333	2M/1.25M/70cm	6.5/7.8/9 dBi	SO-239	10.4'	**$249.95**
CMA-GP-95	2M/70cm/23cm	6/8.6/12.8 dBi	Type N (F)	8'	**$284.49**
CMA-GP-98	2M/70cm/23cm	6.5/9/13.5 dBi	Type N (F)	9.7'	**$322.49**
CMA-GP-15	6M/2M/70cm	3/6.2/8.6 dBi	SO-239	7.9'	**$207.95**

The Big Bang.

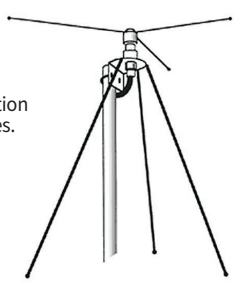
Our Amateur Radio universe is expanding faster than ever with, with advances in digital modes and IP-based communications. Bookmark DXEngineering.com and make sure you don't miss a thing.

HUSTLER

Discone Base Station Scanner Antenna

Match this antenna to your scanner and get excellent reception on public service, aircraft, mobile and telephone frequencies. It's vertically polarized, covers 40 to 950 MHz and doesn't need adjusting. The antenna is 54 inches high with an 18 inch diameter. A 50 foot cable with a BNC male connector is included.

HSR-DCL-B Discone Base Station Antenna...**$108.99**

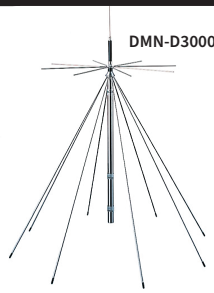


Need advice? 1-330-572-3200 or DXEngineering@DXEngineering.com

DIAMOND ANTENNA

Mobile/Base Discone Antennas

Take advantage of the wideband properties of Diamond's Discone Antennas. They're perfect for Amateur Radio, commercial two-way, cellular, air traffic and utility frequencies. You can also use these as "shop" antennas to test your transmitters with one run of coaxial cable. These versatile, yet compact antennas are rust-resistant and durable.



Part Number	Description	Height	TX Frequency	RX Frequency	Price
DMN-D130J	Super Discone, SO-239, Base	66.9"	50-1300 MHz	25-1300 MHz	**$129.99**
DMN-D130NJ	Super Discone, Type N, Base	66.9"	50-1300 MHz	25-1300 MHz	**$129.99**
DMN-D3000N	Super Discone, Type N, Base	66.9"	50-1200 MHz	25-3000 MHz	**$159.99**

*Designed for Diamond's K400S, K400C, K600M and K600S Mobile Mounts



More Diamond Base/Repeater Antennas

Find Complete Specs at DXEngineering.com

Multi-Band Resonant Vertical Antennas **(1.4" to 2.4" OD Mast Required)**

Part Number	Bands	Height	Power Rating	Price
DMN-CP5H	40/10/15/6M	11.7'	500 Watts	**$444.99**
DMN-CP6AR	80/40/15/10/6M	15.1'	200 Watts	**$474.99**
DMN-CP610	10/6M	22.0'	500 Watts	**$284.99**

Monoband Base/Repeater Antennas **(1.25" to 2.4" OD Mast Required)**

Part Number	Band	Height	Power Rating	Gain	Price
DMN-CP22E	2 Meter	8.9'	200 Watts	6.5 dBi	**$74.99**
DMN-F22A	2 Meter	10.5'	200 Watts	6.71 dBi	**$114.99**
DMN-F23H	2 Meter	15'	350 Watts	7.8 dBi	**$189.99**
DMN-F142A	1.25 Meter	6'	150 Watts	5.5 dBi	**$132.99**

Dual-Band Base/Repeater Antennas **(1.25" to 2.4" OD Mast Required)**

Part Number	Bands (Connector)	Height	Power Rating	Gain	Price
DMN-X30A	2M/70cm (SO-239)	4.5'	150 Watts	3 dBi (2M) 5.5 dBi (70cm)	**$76.99**
DMN-X50A	2M/70cm (SO-239)	5.6'	200 W (2M) 250 W (70cm)	4.5 dBi (2M) 7.2 dBi (70cm)	**$99.99**
DMN-X50NA	2M/70cm (Type N)	5.6'	200 W (2M) 250 W (70cm)	4.5 dBi (2M) 7.2 dBi (70cm)	**$99.99**
DMN-X200A	2M/70cm (SO-239)	8.3'	200 Watts	6 dBi (2M) 8 dBi (70cm)	**$129.99**
DMN-X300A	2M/70cm (SO-239)	10'	200 Watts	6.5 dBi (2M) 9 dBi (70cm)	**$149.99**
DMN-X300NA	2M/70cm (Type N)	10'	200 Watts	6.5 dBi (2M) 9 dBi (70cm)	**$149.99**
DMN-X510HDM	2M/70cm (SO-239)	17.2'	330 W (2M) 250 W (70cm)	8.3 dBi (2M) 11.7 dBi (70cm)	**$209.99**
DMN-X510HDNA	2M/70cm (Type N)	17.2'	330 W (2M) 250 W (70cm)	8.3 dBi (2M) 11.7 dBi (70cm)	**$209.99**
DMN-X700HNA	2M/70cm (Type N)	24'	200 Watts	9.3 dBi (2M) 13 dBi (70cm)	**$434.99**

Tri-Band Base/Repeater Antennas **(1.25" to 2.4" OD Mast Required)**

Part Number	Bands	Height	Power Rating	Gain	Price
DMN-V2000A	6M/2M/70cm	8.3'	150 Watts	2.1 dBi (6M) 6.2 dBi (2M) 8.4 dBi (70cm)	**$169.99**
DMN-X6000A	2M/70cm/23cm	10.5'	100 W (2M) 100 W (1.25M) 60 W (23cm)	6.5 dBi (2M) 9 dBi (70cm) 10 dBi (23cm)	**$199.99**

Yagi Beam Base Antennas

Part Number	Band	Elements	Boom Length	Power Rating	Gain	Price
DMN-A144S5	2 Meter	5	3.1'	100 Watts	9.1 dBi	**$69.99**
DMN-A144S10	2 Meter	10	6.99'	50 Watts	11.6 dBi	**$114.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

Comet Duplexers	Port*	Frequency	PEP	Loss	Isolation	Mix Connector	Port Connector	Price
CMA-CF-360B	LPF HPF	1.3-30 MHz 49-470 MHz	600 W 600 W	.2 dB .2 dB	45 dB	PL-259	SO-239 SO-239	**$80.95**
CMA-CF-413B	LPF HPF	1.3-500 MHz 840-1300 MHz	500 W 200 W	.25 dB .4 dB	60 dB	Type N Female	PL-259 Type N Male	**$75.95**
CMA-CF-416A	LPF HPF	1.3-170 MHz 350-540 MHz	800 W 500 W	.15 dB .25 dB	60 dB	SO-239	PL-259 PL-259	**$63.49**
CMA-CF-416B	LPF HPF	1.3-170 MHz 350-540 MHz	800 W 500 W	.15 dB .25 dB	60 dB	S0-239	PL-259 Type N Male	**$63.49**
CMA-CF-416W	LPF HPF	1.2-250 MHz 400-1400 MHz	400 W 200 W	.2 dB .3 dB	30 dB	Type N Female	PL-259 Type N Male	**$99.95**
CMA-CF-4160I	LPF HPF	1.3-170 MHz 350-540 MHz	800 W 500 W	.1 dB .2 dB	60 dB	SO-239	PL-259 Type N Male	**$63.49**
CMA-CF-4160J	LPF HPF	1.3-170 MHz 350-540 MHz	800 W 500 W	.1 dB .2 dB	60 dB	SO-239	SO-239 SO-239	**$70.95**
CMA-CF-4160N	LPF HPF	1.3-170 MHz 350-540 MHz	800 W 500 W	.1 dB .2 dB	60 dB	Type N Female	Type N Female Type N Female	**$76.95**
CMA-CF-530	LPF HPF	1.3-90 MHz 125-470 MHz	600 W 600 W	.2 dB .2 dB	45 dB	SO-239	PL-259 PL-259	**$90.95**
CMA-CF-530C	LPF HPF	1.3-90 MHz 125-470 MHz	600 W 600 W	.2 dB .2 dB	45 dB	PL-259	SO-239 SO-239	**$88.95**

Comet Triplexers	Port*	Frequency	PEP	Loss	Isolation	Mix Connector	Port Connector	Price
CMA-CFX-324A	LPF BPF HPF	1.3-150 MHz 200-320 MHz 390-500 MHz	600 W 600 W 600 W	.2 dB .25 dB .3 dB	40 dB	SO-239	PL-259 PL-259 PL-259	**$102.95**
CMA-CFX-324J	LPF BPF HPF	1.3-150 MHz 200-320 MHz 390-500 MHz	600 W 600 W 600 W	.2 dB .25 dB .3 dB	40 dB	SO-239	SO-239 SO-239 SO-239	**$101.49**
CMA-CFX-431A	LPF BPF HPF	1.3-150 MHz 350-500 MHz 840-1400 MHz	600 W 600 W 600 W	0.2 dB 0.2 dB 0.2 dB	45 dB	Type N Female	PL-259 PL-259 Type N Male	**$124.49**
CMA-CFX-514J	LPF BPF HPF	1.3-90 MHz 130-200 MHz 380-500 MHz	800 W 800 W 500 W	.15 dB .2 dB .25 dB	55 dB	SO-239	SO-239 SO-239 SO-239	**$86.49**
CMA-CFX-514N	LPF BPF HPF	1.3-90 MHz 130-200 MHz 380-500 MHz	800 W 800 W 500 W	.2 dB .25 dB .3 dB	55 dB	SO-239	PL-259 PL-259 Type N Male	**$95.95**

Diamond Duplexers	Port*	Frequency	FM	PEP	Loss	Isolation	Mix Connector	Port Connector	Price
DMN-MX610	LPF HPF	1.3-30 MHz 49-470 MHz	200 W 200 W	600 W 600 W	.2 dB .25 dB	45 dB 45 dB	SO-239	PL-259, No Cable	**$69.99**
DMN-MX62M	LPF HPF	1.6-56 MHz 76-470 MHz	200 W 200 W	600 W 600 W	.2 dB .3 dB	50 dB 50 dB	SO-239	PL-259, 12" 5D Cable PL-259, 12" 5D Cable	**$78.99**
DMN-MX72D	LPF HPF	1.6-30 MHz 140-150 MHz 400-600 MHz	400 W 150 W 100 W	1,000 W 400 W 250 W	.1 dB .1 dB .2 dB	60 dB 60 dB 60 dB	SO-239	PL-259, No Cable PL-259, No Cable	**$46.99**
DMN-MX72H	LPF HPF	1.6-30 MHz 140-150 MHz 400-600 MHz	400 W 150 W 100 W	1,000 W 400 W 250 W	.1 dB .1 dB .2 dB	60 dB 60 dB 60 dB	SO-239	PL-259, 12" 5D Cable PL-259, 12" 5D Cable	**$49.99**
DMN-MX72N	LPF HPF	1.6-30 MHz 140-150 MHz 400-460 MHz	400 W 150 W 100 W	1,000 W 400 W 250 W	.1 dB .1 dB .1 dB	60 dB 60 dB 60 dB	SO-239	PL-259, 12" 5D Cable Type N Male, 12" 5D Cable	**$49.99**
DMN-MX72A	LPF HPF	1.6-30 MHz 140-150 MHz 400-460 MHz	400 W 150 W 100 W	1,000 W 400 W 250 W	.1 dB .1 dB .1 dB	60 dB 60 dB 60 dB	Type N Female	PL-259, 12" 5D Cable PL-259, 12" 5D Cable	**$54.99**

Diamond Triplexers	Port*	Frequency	FM	PEP	Loss	Isolation	Mix Connector	Port Connector	Price
DMN-MX2000	LPF BPF HPF	1.6-60 MHz 110-170 MHz 300-950 MHz	400 W 400 W 250 W	800 W 800 W 500 W	.15 dB .2 dB .25 dB	60 dB 60 dB 60 dB	SO-239	PL-259, 12" 5D Cable PL-259, 12" 5D Cable PL-259, 12" 5D Cable	**$89.99**
DMN-MX2000N	LPF BPF HPF	1.6-60 MHz 110-170 MHz 300-950 MHz	400 W 400 W 250 W	800 W 800 W 500 W	.15 dB .2 dB .25 dB	60 dB 60 dB 60 dB	SO-239	PL-259, 12" 5D Cable PL-259, 12" 5D Cable Type N Male, 12" 5D Cable	**$93.99**
DMN-MX3000	LPF BPF HPF	1.6-160 MHz 350-500 MHz 850-1300 MHz	400 W 200 W 100 W	800 W 400 W 200 W	.2 dB .3 dB .4 dB	55 dB 55 dB 55 dB	Type N Female	PL-259, 12" 5D Cable PL-259, 12" 5D Cable Type N Male , 12" 5D Cable	**$89.99**
DMN-MX3000N	LPF BPF HPF	1.6-160 MHz 350-500 MHz 850-1300 MHz	400 W 200 W 100 W	800 W 400 W 200 W	.2 dB .3 dB .4 dB	55 dB 55 dB 55 dB	Type N Female	PL-259, 12" 5D Cable Type N Male, 12" 5D Cable Type N Male , 12" 5D Cable	**$89.99**

*LPF: Low Pass Filter, BPF: Band Pass Filter, HPF: High Pass Filter

COMET



CMA-CF-416A



CMA-CF-4160J



CMA-CF-4160N



CMA-CFX-324A



CMA-CFX-431A

DIAMOND ANTENNA



DMN-MX72N



DMN-MX2000



DMN-MX3000

DX ENGINEERING

Rotator Super Duty Mast Clamps



These mast clamps, which come in sizes to fit 2", 2.5", or 3" O.D. masts, are the right choice when maximum torque handling is required on aluminum and steel mast tubing for your rotator setup. These solidly built options significantly improve the connection between the rotator and the directional antenna rotating mast. The clamps mate with the DX Engineering DXE-RT4500HD Heavy-Duty Rotator and replace the clamp on the M2 OR2800 Rotator.
DX Engineering highly recommends installing a 2.5" or 3" O.D. mast with its Rotator Super Mast Clamps whenever the installation of mast-mounted rotatable antennas will have a total wind load or wind exposure rating of 18 square feet or more. Kits come with two rugged aluminum clamps for the standard version and three for the heavy-duty model, stainless steel backing plates, stainless steel bolt sets, and fasteners. The clamps' special surface texture provides a secure fit that resists torque, wind, and weather. All models can be used on Rohn 45 and larger towers. Only 2" versions fit Rohn 25G towers.

Enter "DXE Super Mast Rotator" at DXEngineering.com for more details.

DXE-SDMC-2	Two SD Clamps for 2" O.D. Mast	**$303.99**
DXE-SDMC-2-5	Two SD Clamps for 2.5" O.D. Mast	**$439.99**
DXE-SDMC-3	Two SD Clamps for 3" O.D. Mast	**$389.99**
DXE-SDMC-2HD	Three SD Clamps for 2" O.D. Mast	**$361.47**
DXE-SDMC-2-5HD	Three SD Clamps for 2.5" O.D. Mast	**$503.47**
DXE-SDMC-3HD	Three SD Clamps for 3" O.D. Mast	**$461.47**

DX ENGINEERING

Heavy-Duty Mast Clamps for Rotators



DXE-RTMC-2A



DXE-RTMC-3A



DXE-RTMC-2A-HWK



DXE-RTMC-3A-HWK

DX Engineering Heavy-Duty Mast Clamps for rotators provide a major performance upgrade over factory clamps. These direct bolt-on plated steel clamps for 2" and 3" diameter masts replace stock units installed on top of M2 Antennas OR-2800 Positioner Rotators and Yaesu G2800-DXA, G1000-DXA and G800-DXA rotators. They also work with DX Engineering's RT4500HD Heavy-Duty Rotator. The clamps improve the mast connection to the rotator and prevent mast slippage that can result with larger array setups. Pressure adjustments can be made by applying more torque to the included steel fasteners. Brand-specific bolt kits for mounting the clamps are sold separately.

DXE-RTMC-2A	2" Replacement Rotator Top Mast Clamp for RT4500HD, Yaesu, M2	**$249.99**
DXE-RTMC-3A	3" Replacement Rotator Top Mast Clamp for RT4500HD, Yaesu, M2	**$339.99**
DXE-RTMC-2A-HWK	Hardware for RT4500HD/M2 OR-2800 Rotator Mast Clamp	**$9.99**
DXE-RTMC-3A-HWK	Hardware for Yaesu DXA Series Rotator Mast Clamp	**$10.49**

Multi-Conductor Control Wire



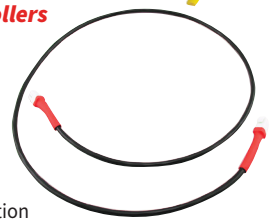
COM-CW3



DXE-CW8-HD

DXE-CW8	Control Wire, 8-Conductor per foot	**$1.79**
DXE-CW8-HD	HD Control Wire, 8-Conductor per foot	**$2.59**
COM-CW3	Wire, 3-Conductor per foot	**$0.49**
COM-CW4	Wire, 4-Conductor per foot	**$0.85**

Extension Cables for Yaesu Rotator Controllers



These extensions provide an easy-to-reach, quick disconnect for a long run of user-made or premade DX Engineering Yaesu Rotator Cable Assembly (DXE-YRC Series). Purchase the length you need to make it simple to disconnect the rotator control line from your Yaesu Rotator Controller. The extensions allow the controller to be repositioned and moved more easily. Plus, disconnecting the rotator control line when leaving the shack offers additional protection for the controller. Each six-conductor 18 AWG extension cable has the Yaesu standard female six-pin Molex on one end and male six-pin Molex on the other. Heat shrink on the cable ends provides strain relief and longevity. Extends for all Yaesu rotators.



DMV-YSU-EXT-5	5' Extension Cable	**$47.99**
DMV-YSU-EXT-10	10' Extension Cable	**$52.99**
DMV-YSU-EXT-15	15' Extension Cable	**$57.99**
DMV-YSU-EXT-20	20' Extension Cable	**$62.99**

The specialized DMV-YSU-PIGTAIL has female 6-pin Molex and #6 ring terminal ends exclusively for the Yaesu Azimuth-Elevation rotator controller.

DMV-YSU-PIGTAIL	3' Pigtail for Yaesu Az-El Rotator Controller	**$46.99**

Prices are subject to change without notice.

DX ENGINEERING

RT4500HD /Heavy-Duty Rotator and Rotator/Controller/Clamp Combos



Extensively tested for long-term performance under conditions that far exceed normal amateur radio use, this ruggedly built and precision-engineered azimuth positioning rotator is designed to deliver flawless operation with most tower-mounted directional antenna systems. One RT4500HD purchaser summed up the rotator this way: "Best rotator on the market! This rotator delivers in every category that is important to someone looking for a well-engineered, permanent, and worry-free solution to rotating a large array." You, too, can enjoy these class-leading features:

- Approximately 25 square foot wind load rating (inside tower)
- Needle thrust bearings handle up to 2,000 lbs. of vertical load
- High ratio worm gear drive powered by a heavy-duty 24VDC motor provides superior rotational torque (> 4,400 in. lbs.) and braking torque (>18,500 in. lbs.)
- Accurate within +/-0.1 degrees with high-resolution pulse counter controller
- Unique removable panel allows access to pulse counter switch without removing rotator
- Ability to set soft limits—If the antenna or mast ever slips, just reset the controller to the center of rotation and recalibrate the rotational range
- Hardened steel gears welded onto hardened steel shafts prevent slippage and shearing of key pins
- Sloped body sheds water; seals at the output shaft, intermediate plate and access panel keep moisture out; and weep holes make sure it stays dry
- Ideally sized to fit inside ROHN 25G but easily handles larger antenna systems

For complete details, enter "RT4500HD" at DXEngineering.com.

DXE-RT4500HD	DXE Heavy-Duty Rotator	**$2,569.99**
DXE-RT-PULSE-ASM	Pulse Sensor Assembly Kit, Replacement	**$114.99**
DXE-RT-SENSOR	Pulse Sensor and Gasket, Replacement	**$31.99**
DXE-LP20-F	Cable Mount, Female 4-Pin	**$20.99**
DXE-LP20-M	Cable Mount, Male 4-Pin	**$20.99**
DXE-ROT-MTG-HWK	Mounting Hardware Kit, 4 Locking Bolts/ Washers, Replacement	**$9.99**

DXE-RT4500HD-3



DXE-RT4500HD-3DX



Rotator/Controller/Mast Clamp Combos

Here's the perfect way to ensure simplified and worry-free rotator installation, setup, and operation. Purchase the RT4500HD as a combo with the DX Engineering plated-steel HD Mast Clamp (2" or 3") plus controller (either the microHAM ARCO or DX Engineering model). The rotator is also available as a package with mast clamp only.

DXE-RT4500HD-2	RT4500HD Rotator with 2" Mast Clamp	**$2,819.98**
DXE-RT4500HD-2DX	RT4500HD Rotator with 2" Mast Clamp and DXE Controller	**$3,534.97**
DXE-RT4500HD-2MH	RT4500HD Rotator with 2" Mast Clamp and ARCO Controller	**$4,209.97**
DXE-RT4500HD-3	RT4500HD Rotator with 3" Mast Clamp	**$2,909.98**
DXE-RT4500HD-3DX	RT4500HD Rotator with 3" Mast Clamp and DXE Controller	**$3,624.97**
DXE-RT4500HD-3MH	RT4500HD Rotator with 3" Mast Clamp and ARCO Controller	**$4,299.97**

DX ENGINEERING

DX Engineering Digital Universal Rotator Controller



DX Engineering's Digital Universal Rotator Controller, manufactured by Green Heron, is pre-programmed for DX Engineering's RT4500HD Heavy-Duty Rotator but is adaptable for use with other directional antenna rotation systems. This highly-accurate, fully programmable and simple-to-operate unit features easy-to-read LCD display, variable-speed control, point-and-shoot or manual pushbutton operation, and more.

DXE-RT-21DXE	DXE Rotator Controller	**$714.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

Universal Digital Rotor Controllers



GHE-RT-21-CDE

Green Heron has added digital capabilities to its much-loved line of controllers. This new series features advanced, adaptable controls that give you unparalleled operational ability. These state-of-the-art digital controllers have variable speed control, automated PC control capability, and precision heading accuracy good to 1/10 of a degree. The controllers are fully programmable—you may modify speed, braking, limit, ramp, and a handful of other parameters.

- High-visibility LCD display with adjustable backlight brightness
- Point-and-shoot or manual push button operation plus presets
- Variable-speed control
- Start and stop ramping to reduce tower and antenna stresses
- Fully supports side mounted antennas, soft limits prevent running into tower
- Allows over-travel up to 720 degrees total
- Master/slave for stacked arrays, turn together or separately
- Easy front panel setup and setup utility software

Upgrading to the Deluxe version adds a sleek, black finish and an ultra-bright green vacuum florescent display.

GHE-RT-21-CDE	Universal Rotor Controller, Programmed for Hy-Gain and CDE Rotators	**$649.00**
GHE-RT-21D-CDE	Deluxe Universal Rotor Controller, Programmed for Hy-Gain and CDE Rotators	**$759.00**
GHE-RT-21-M2	Universal Rotor Controller, Programmed M2 Rotators	**$649.00**
GHE-RT-21D-M2	Deluxe Universal Rotor Controller, Programmed M2 Rotators	**$759.00**

ARCO Smart Antenna Rotator Controllers



microHAM

The intuitive-to-operate ARCO takes controlling your rotators to a new level. Not requiring a computer or any external devices for setup or operation, the ARCO is loaded with features and built to work with virtually any rotator. Its well-organized 7" touchscreen LCD (manual operation also available) has a colorful great circle azimuthal map with digital heading and other functions within easy reach. The "Touch 'n Tune" feature lets you control azimuth headings while taking advantage of four radius settings, live gray line projection, multiple coloring options, and automatic day/night color schemes. The device also has advanced damage protection; gradual speed ramps which reduce stress to the rotator, antennas, and tower; Ethernet LAN and Internet remote control or local connectivity via Windows 10, macOS and Linux computers; built-in linear power supply that offers silent, interference-free operation; and compatibility with a range of absolute and relative sensors for rotator position feedback. Available with 200W or 400W power supplies. **Enter "ARCO" at DXEngineering.com for more details.**

MOH-ARCO-115V	ARCO Rotator Controller, 200W Power Supply	**$1,389.99**
MOH-ARCO400-115V	ARCO Rotator Controller, 400W Power Supply	**$1,499.99**

ARCO Junior Rotator Controllers

These ARCOs provide the same capabilities in a smaller enclosure with simplified front panel. Includes VNC server to display on a connected computer or mobile device the same standard ARCO user screen. When regular/Jr. versions are linked, the regular ARCO provides the same touchscreen user interface for all linked ARCO Juniors. The JR090US works with Yaesu/Prosistel 61S rotators; the JR220US works with Prosistel 71D, DXE RT4500, M2 Orion, and Hy-Gain.

MOH-ARCO-JR	ARCO Junior, Power Supply Not Included	**CALL/WEB**
MOH-ARCO-JR090US	ARCO Rotator Controller, 90W Power Supply	**CALL/WEB**
MOH-ARCO-JR220US	ARCO Rotator Controller, 220W Power Supply	**CALL/WEB**

ARXC Modules for Expanded Control and Functionality of ARCO

The ARXC LoRa is a long-range communication transceiver module operating in the 868 MHz ISM band. It converts the bidirectional RS-485 communication used by the ARCO and ARXC modules to RF data and back, enabling the wireless connection of ARXC components with the ARCO. The ARXC MAG (magnetic azimuth sensor) reports the current true azimuth of the antenna to the ARCO. The ARXC REL has four user-programmable relay outputs used for the control of various antenna and polarization switches, mast preamplifiers, and other devices which are controlled directly from the ARCO's user interface and touchscreen or through Internet remote control.

MOH-ARXC-LORA	Wireless Connection of ARXC Modules to ARCO, Pair	**$319.99**
MOH-ARXC-MAG	Magnetic Azimuth Sensor	**$175.99**
MOH-ARXC-REL	Extension Module w/ 4 Relays, Switchable	**$195.99**

Rotator Accessories



DXE-UBK-HYG-1	Replacement U-Bolt (single) Kit for Hy-Gain HAM-Series/CD-45	**$12.99**
DXE-UBK-HYG-2	Replacement U-Bolt (single) Kit for Hy-Gain T2X Rotor	**$16.49**

YAESU

Heavy-Duty Rotator Systems


YSU-G-2800DXA

Yaesu makes these rotator systems for large tower mounted antennas. They consist of a rotator and an azimuth/directional controller. The rotators use a variable-voltage DC motor, which eliminates the large starting capacitor found in other systems. The motor is housed in an aluminum enclosure and is permanently lubricated to ensure years of maintenance-free operation. Each system below handles a maximum mast OD of 2.5 inches and delivers 450 degrees of antenna rotation.

The sleek controllers match the aesthetics of Yaesu's radios perfectly. They allow you to select rotating speed and antenna heading. These rotator systems incorporate an auto "slow-stop" and a "slow-start" to better handle the momentum of a large antenna, which protects both the antenna and the rotator.

Medium-Duty Rotator Systems

Perfect for smaller antennas, these systems incorporate the durable rotator design of their heavy-duty brethren. The G-450ADC rotator system provides 450 degrees of azimuth rotation in just over one minute. Mast clamp handles 1.25" to 2.5" O.D. max. Masts under 1.5" O.D. use GL-33 Mast Adjustment Plates.

Part Number	Turning Power	Wind Load Rating (Tower)	Max. Vertical Load	Price
Heavy-Duty Rotator Systems				
YSU-G-2800DXA	2,170 In.-Lbs.	32.3 Sq. Ft.	661 Lbs.	**$1,369.99**
YSU-G-1000DXA	955 In.-Lbs.	23.7 Sq. Ft.	441 Lbs.	**$619.99**
YSU-G-800DXA	955 In.-Lbs.	21.5 Sq. Ft.	441 Lbs.	**$489.99**
Medium-Duty Rotator System				
YSU-G-450ADC	516 In.-Lbs.	10.8 Sq. Ft.	220 Lbs.	**$319.99**
Medium-Duty Azimuth-Elevation Rotator System				
YSU-G-5500DC	428 In.-Lbs.	10.8 Sq. Ft.	441 Lbs.	**$759.99**

DX ENGINEERING

Yaesu Rotator Cable Assemblies



DX Engineering has made it simple to hook up your Yaesu rotator with these plug-and-play cable assemblies. Featuring heavy-duty stranded copper 18 AWG wire with water-impervious and UV-resistant direct-bury jacket, cables come with installed Yaesu connectors (7-pin plug with screw-on shell and 6-pin rectangular keyed connector), eliminating the hassle of soldering wires onto tiny connector pins. Assemblies are available in a 10' length for bench testing and for regular runs in 50', 75', 100', 150', 200', 250', and 300'. They are compatible with these Yaesu rotator models: G-450A, G-450ADC, G-800DXA, G-1000DXA, G-2800DXA, G-5500A* and G-5500DC*. *Azimuth elevation rotators require two cables.

Enter "DXE Yaesu Cable" at DXEngineering.com for more details.

DXE-YRC-010PE	Yaesu Rotator Cable Assembly, 10' Test Cable	**$89.99**
DXE-YRC-050PE	Yaesu Rotator Cable Assembly, 50'	**$130.99**
DXE-YRC-075PE	Yaesu Rotator Cable Assembly, 75'	**$141.99**
DXE-YRC-100PE	Yaesu Rotator Cable Assembly, 100'	**$169.99**
DXE-YRC-125PE	Yaesu Rotator Cable Assembly, 125'	**$234.99**
DXE-YRC-150PE	Yaesu Rotator Cable Assembly, 150'	**$200.99**
DXE-YRC-175PE	Yaesu Rotator Cable Assembly, 175'	**$226.99**
DXE-YRC-200PE	Yaesu Rotator Cable Assembly, 200'	**$324.99**
DXE-YRC-250PE	Yaesu Rotator Cable Assembly, 250'	**$374.99**
DXE-YRC-300PE	Yaesu Rotator Cable Assembly, 300'	**$305.99**

USB Interfaces for Yaesu Rotators



These compact interfaces connect compatible Yaesu rotator controllers to a computer via USB. The ERC-DUO can connect to all Yaesu rotator controllers that have an "Ext. Control" connector, including G-2800DXA, G-1000DXA, G-800DXA, G-5500, and G-5500DC. It includes a 6-pin mini-DIN cable for the Yaesu DXA series controllers. A suitable 8-pin DIN cable (WMO-ERC-DUO8PDIN) must be purchased separately for use with Yaesu azimuth-elevation models G-5500DC or previous G-5500. The ERC-DUO offers connection options for up to two rotators simultaneously to support satellite antenna systems with azimuth and elevation motors. The interface uses the Yaesu rotator control protocol, just like the Yaesu GS-232A/GS-232B interface. This makes it compatible with almost all rotator control programs and logging software programs. Includes USB A to USB B cable for PC connection. Powered via the PC USB port without the need for an external power supply, the ERC-DUO is easy to use for both base or portable satellite operations.

WMO-ERC-DUO	USB Interface for Yaesu Rotators	**$209.99**
WMO-ERC-DUO8PDIN	Cable w/8-Pin DIN Connector	**$32.99**

CSN Technologies



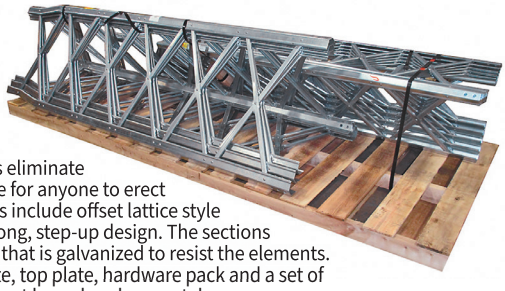
Self-Contained Antenna Tracker



Looking for an easier way to enjoy the thrill of making QSOs via amateur radio satellites? Then take a good look at the Self-Contained Antenna Tracker (S.A.T.) from CSN Technologies—a device that helps Yaesu rotator and Icom rig owners get more out of satellite operating without the need to purchase a computer interface or configure satellite tracking software to work with a cable/rotator combo. Just attach the S.A.T. to a rotator and a transceiver. It works with any modern web browser on any device with no need for software, apps, or com ports. The USB-powered device natively controls Yaesu Az-El rotators and Icom satellite transceivers (through the CI-V jack) and can be interfaced with PstRotator– a software application that will support additional rotator controllers. From its main menu, users can choose from "Pass Predictions" or view the entire list of satellites, with all relevant information about each pass displayed in real-time. While tracking, the Track Panel displays essential satellite information and current antenna position information. The "Future Passes" popup displays upcoming satellites and those that are already in the sky. Users can set an audible alarm to notify them of the start of a satellite's pass. Satellites can be graphically viewed in overhead compass style, from-the-ground style, and on a world map. Other features include built-in WiFi, built-in GPS, real-time monitoring, custom TLE list, manual and automatic TLE updates, NO/NC relay outlet, manual rotator control, transponder updates, QSO log with ADIF export, and easy OTA firmware updates. All cables included. **Enter "CSN" at DXEngineering.com for more details.**

ATN-SAT-TRACKER Self-Contained Antenna Tracker..... **$275.00**

TBX Tower



Packaged Tower Kits and Accessories

These TBX Packaged Tower Kits eliminate guesswork and make it possible for anyone to erect a self-supporting tower. The kits include offset lattice style tower sections that create a strong, step-up design. The sections are made from contoured steel that is galvanized to resist the elements. The kits will include a rotor plate, top plate, hardware pack and a set of top-section steps. Base stubs must be ordered separately.

TBX also offers Base Hinge Kits that allow you to assemble the tower on the ground and raise it into place. The heavy-duty hinges are strong enough to handle a tower up to 64 feet. TBX Step Kits makes climbing your tower much safer and more comfortable. Both the Hinge Kits and Step Kits include all the hardware you'll need for installation.

TBX Packaged Tower Kits and accessories are available at DXEngineering.com.

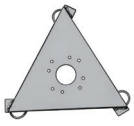
Tower Base Anchors



Made to fit specific-size tower sections, these hinged base anchors are required for Universal Towers self-supporting antenna packages. They feature 4' long, 0.125" diameter galvanized steel anchors and 6" hinge sleeves that make it much easier to access your antenna or raise large antennas into the open air. Anchored into a customer-supplied tower concrete foundation, these high-strength and durable bases work in perfect harmony with the rest of your tower.

UVT-B-14 Base Anchor, Fits 14" Leg Spacing.... **$180.50**
UVT-B-18 Base Anchor, Fits 18" Leg Spacing.... **$180.50**
UVT-B-22 Base Anchor, Fits 22" Leg Spacing.... **$261.25**
UVT-B-26 Base Anchor, Fits 26" Leg Spacing.... **$313.50**
UVT-B-30 Base Anchor, Fits 30" Leg Spacing.... **$429.40**

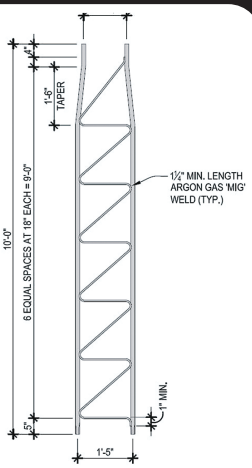
Rotor Mount Shelves



Universal Towers Rotor Mounts are the perfect solution to combine your specific HyGain or Yaesu antenna rotor to your Universal Towers antenna tower. Made from strong aluminum, they're also available undrilled for mounting other rotor brands.

UVT-R11 Undrilled Rotor Mount Shelf, Fits 11" Top Section..... **$57.00**
UVT-R11-H Rotor Mount Shelf for HyGain, Fits 11" Top Section **$57.00**
UVT-R11-Y Rotor Mount Shelf for Yaesu, Fits 11" Top Section..... **$57.00**
UVT-R14 Undrilled Rotor Mount Shelf, Fits 14" Top Section..... **$79.80**
UVT-R14-H Rotor Mount Shelf for HyGain, Fits 14" Top Section **$79.80**
UVT-R14-Y Rotor Mount Shelf for Yaesu, Fits 11" Top Section..... **$79.80**
UVT-R-18-H Rotor Mount Shelf for HyGain, Fits 18" Top Section **$93.10**
UVT-R-18-Y Rotor Mount Shelf for Yaesu, Fits 18" Top Section..... **$93.10**

Standard-Duty and Heavy-Duty Packaged Tower Kits



Universal Towers Standard and Heavy-Duty Freestanding Aluminum Tower Packages make it simple to get the precise height (30' to 100') and wind load rating you want. Made from high-quality aluminum, towers feature rugged, heavy-wall tubing legs and welded S-bracing. Top sections come standardized for a 2" collar. Packages with other mast collars (e.g., 1.250") are available by special order. Also included is a Universal top plate. Customers may choose to select the DX Engineering Top Plate (DXE-TOP-PLATE-DX) made for the DX Engineering Advanced Design Thrust Bearing for 2" O.D. Mast (DXE-TB300). Hardware included. Required Tower Base Anchors are sold separately. Note: Wind load ratings may be less based on U.S. Wind Loading Rating Zones. **Enter "Universal Tower Packages" at DXEngineering.com for details. Standard packages available from $893.95.**

Part Number	Tower Size	Wind Load Rating, Square Feet	Required Base Anchor	Price
Heavy-Duty				
UVT-HD35-40	40'	34.5	B-30	**$2,668.55**
UVT-HD21-50	50'	21.1	B-30	**$2,877.55**
UVT-HD16-60	60'	16.4	B-30	**$3,675.55**
UVT-HD21-60	60'	21.1	B-30	**$3,718.30**
UVT-HD12-70	70'	11.9	B-30	**$4,107.80**
UVT-HD11-90	90'	10.8	B-30	**$5,912.80**
UVT-HD4-100	100'	4.4	B-30	**$5,847.25**

Packaged Tower Kits with Top Plate Made for DX Engineering Thrust Bearing



UVT-15-50-2TPD

These kits contain the components (other than base anchor) to erect a durable freestanding antenna tower, including a mast collar welded with a specially drilled top plate for mounting the DX Engineering Advanced Design Thrust Bearing (DXE-TB-300) for 2" O.D. masts. Packages with other mast collars are available by special order. Each tower requires a Universal Towers base anchor with hinge sleeves, sold separately. See DXEngineering.com for complete details.

UVT-15-50-2TPD Tower Kit, 50' High, 10 Sq. Ft. Wind Load..... **$2,592.55**
UVT-16-50-2TPD Tower Kit, 50' High, 10.5 Sq. Ft. Wind Load..... **$2,834.80**
UVT-21-30-2TPD Tower Kit, 30' High, 15 Sq. Ft. Wind Load..... **$1,238.80**
UVT-7-50-2TPD Tower Kit, 50' High, 4 Sq. Ft. Wind Load..... **$1,839.20**
UVT-9-30-2TPD Tower Kit, 30' High, 6.5 Sq. Ft. Wind Load..... **$893.95**
UVT-9-40-2TPD Tower Kit, 40' High, 6.5 Sq. Ft. Wind Load..... **$1,449.70**
UVT-9-50-2TPD Tower Kit, 50' High, 6.5 Sq. Ft. Wind Load..... **$2,005.45**
UVT-9-60-2TPD Tower Kit, 60' High, 6.5 Sq. Ft. Wind Load..... **$2,803.45**

Heavy-Duty Packaged Tower Kits

UVT-HD12-80-2TPD Tower Kit, 80' High, 11.9 Sq. Ft. Wind Load..... **$4,948.55**
UVT-HD21-50-2TPD Tower Kit, 50' High, 21.1 Sq. Ft. Wind Load..... **$2,877.55**
UVT-HD21-70-2TPD Tower Kit, 70' High, 21.1 Sq. Ft. Wind Load..... **$4,559.05**
UVT-HD9-80-2TPD Tower Kit, 80' High, 9.29 Sq. Ft. Wind Load..... **$4,484.95**

Top Plate for Mounting DX Engineering Thrust Bearing

This replacement top plate for use with Universal Towers packages is drilled to mount DX Engineering Advanced Design TB300 Thrust Bearing for 2" O.D. masts.

UVT-TOP-PLATE-DX Top Plate for Mounting TB300 Thrust Bearing..... **$38.00**

Carlson Roof Towers
A SOLID BASE FOR CLEAR COMMUNICATION

Heavy-Duty 25G Hinged Tower Base Plate



This sturdy hinged base plate shares the same bolt down and leg pattern as Rohn and American Towers 25G series towers, allowing any 25G tower to be tilted up or down for easy maintenance. Built to accurate tolerances for smooth fit and featuring all-steel construction, this USA-made base plate provides a secure foundation for your tower projects. Connecting points feature larger 1/2" hinge bolts (instead of standard 3/8") and thicker 3/8" tilt plate and gussets (instead of the usual 1/4"). Three solid-steel mounting pegs are recessed into the 36-lb. base plate for added strength. The peg layout is 11.25" center-to-center with a peg diameter of 1.060" to match the 25G leg dimension of 1.080", allowing 0.20" of clearance—a design which an engineering study found to be approximately two times stronger than competing base plates. Made for bracketed or guyed towers.

CES-HBP25G-HD 25G Hinged Tower Base Plate..... **$429.99**

We stock many more items than we can show. See them all at DXEngineering.com!

WARNING: For Proposition 65 information, see p. 3

Commercial Towers

ROHN™ Products LLC

DX Engineering is an Authorized Distributor of Rohn Commercial Tower products and accessories. We have the Rohn products you need to solve your tower structural needs—contact us for technical information and availability. Rohn has been the world leader in tower design and manufacturing for more than six decades. Rohn maintains one of the largest manufacturing and staging facilities in the industry—it is committed to supplying the best.

Designed for areas where land cost or availability are not an issue, Rohn G-series guyed towers provide one of the most cost effective solutions in the industry. Guyed towers install quickly and are often the choice of broadcast communications tower stations and backbone system providers.

All G-series towers are built with high strength steel tubing that is hot-dip galvanized after fabrication. Rohn's exclusive Zig-Zag® solid rod bracing provides exceptional strength.

All Rohn towers, poles and masts must be installed and dismantled by trained personnel. See the Rohn manuals and drawings for detailed information.



45G Tower and Accessories

The 45G is a true multi-use structure that provides excellent strength for applications up to 300' tall.

- Completely hot-dip galvanized after fabrication
- Built on a stable 16.75" equilateral triangle design
- High strength tubular legs joined by Zig-Zag® cross members
- Continuous solid round steel bracing
- Each section is shipped with all nuts and bolts

ROH-45G 45G Standard Section, 10' **$400.99**
ROH-45AG2 45G Top Section, 9' **$485.99**
ROH-SB45G 45G Short Base, 5' **$191.99**
ROH-BPL45G 45G Top Plate for TB3 & TB4 Bearings **$445.99**

45G Tower and Accessories

ROH-BPC45G 45G Concrete Base Plate **$212.99**
ROH-GA45GD 45G Guy Bracket Assembly with Hardware... **$316.99**

25G Tower and Accessories

The Model 25 originated at Rohn and the original still stands as the benchmark of lightweight guyed tower design quality. The 25G is available in the standard 10' section length and in a special order, UPS-shippable 7' length. The 25G uses double-bolted joints—proven to be the best method of joining tower sections for sturdiness and dependability. The 25G may be built to 190' tall.

- Completely hot-dip galvanized after fabrication
- Built on a stable 11.25" equilateral triangle design
- High strength tubular legs joined by Zig-Zag® cross/members, continuous solid round steel bracing
- Each section is shipped with all required nuts & bolts

ROH-25G 25G Standard Section, 10' **$195.99**
ROH-25AG2 25G Top Section, Accepts 2" OD Mast **$323.99**
ROH-SB25G5 25G Short Base, 5' **$179.99**
ROH-25GSSB 25G Self-Supporting Base Plate **$348.99**
ROH-BPH25G 25G Hinged Base Plate **$480.99**
ROH-SBH25G 25G Short Hinged Base, 3.33' **$323.99**
ROH-SDB25G Drive-In Base Plate for Temporary Use **$435.99**
ROH-GA25GD 25G Guy Bracket Assembly with Hardware **$278.99**

Work Platform

Don't get your feet strained in the cross-bracing; install this platform on your Rohn G-series Tower and perform your repairs safely. They snap into place and let you work without strain.

ROH-WP25G Work Platform, 23 G-Series **$247.99**
ROH-WP45G Work Platform, 45 G-Series **$268.99**
ROH-WP55G Work Platform, 55 G-Series **$443.99**

Erection Fixture

You probably call this a Gin Pole; it is a must-have tool to safely raise or repair your tower. The fixture is designed for 25G or 45G towers. It has the correct sheave and clamps, you supply the rope and muscle.

ROH-EF2545 Erection Fixture **$1,646.99**

Tripod Roof Towers

ROH-TRT36 Tripod Roof Tower, 3' **$112.99**
ROH-TRT60 Tripod Roof Tower, 5' **$139.99**

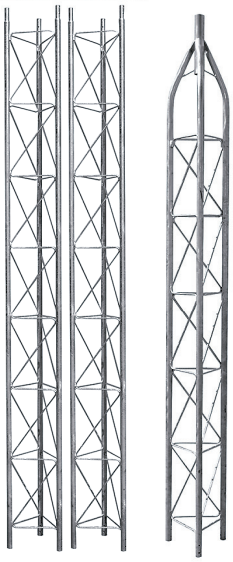
Installation Accessories

Part Number	Description	Price
ROH-25AJBK	Replacement 25AG Joint Bolt Kit	$10.69
ROH-45JBK	Replacement 45G Joint Bolt Kit	$18.99
ROH-55JBK	Replacement 55G Joint Bolt Kit	$22.00
ROH-HBUTVRO	Universal HD House Bracket, 18-36" Standoff for 25G, 45G, 55G	$361.99



TOW-AME25

American Tower Company
Designers & Manufacturers of Communication Towers
Since 1953



TOW-AME25-K30BGR

Amerite 25 Series Bracket Tower Packages

American Tower has done your component-matching homework for you by building these handy 30 foot tower packages. You'll still have to add the concrete and any add-on tower accessories, but these kits are an excellent starting point. Learn more about each one's exact contents at DXEngineering.com.

TOW-AME25-K-30B3 Tower Package, with AME25-B3 Base.... **$859.99**
TOW-AME25-K30BGR Tower Package, with AME25-BGR Base; **$835.99**

Amerite Tower Sections and Components

American Tower's economical and versatile Amerite 25 Tower Series is a popular choice for many Amateur Radio applications. Depending on the antenna wind load, the 25 Series can be used in self-supporting, guyed and bracketed installations. Each tower section is hot-dip galvanized for corrosion resistance and double-bolted to create an extra-secure junction. The sections are made with steel tubing carrying a 50,000 PSI yield strength to meet ASTM 123 standards. The tower sections have 11.25" leg spacing, with 1.25" OD tubing legs.

Similar to the 25 Series, the Amerite 45 Series has wider, 16.75" leg spacing, while the 55 series has 17" leg spacing. They are both well suited to Ham use.

American Tower Company Amerite tower products are fully compatible with their respective ROHN counterparts, which means if the need arises, you have a broader pool of installation and service parts in the future.

Part Number	Description	Price
Amerite 25 Series Sections and Components		
TOW-AME25	Tower Section, 10'	$179.99
TOW-AME25-6	Tower Section, 6'	$205.99
TOW-AME25-T	Top Section, 9'	$225.99
TOW-AME25-6T	Top Section, 6'	$215.99
TOW-AME25-TRB	Top Section, Removable Mast Bushing, 9'	$255.99
TOW-AME25-AG2E	Top Section, Tube on Top, 9.75'	$265.99
TOW-AME25-AS	Accessory Shelf	$105.99
TOW-AME25-B3	Base Section, 3.3'	$129.99
TOW-AME25-GB	Guy Bracket Assembly	$199.99
TOW-AME25-B5	Base Section, 5'	$176.99
TOW-AME25-BGR	Base Plate, Ground/Roof Mount	$115.99
TOW-AME25-BT	Tilt Base, 3.3'	$179.99
TOW-AME25-BH	Base Plate, Hinged, Ground/Roof Mount	$329.99
TOW-AME25BK	Joint Bolt Kit, Replacement Hardware	$16.99
TOW-AME25-DIB	Drive-in Tower Base Plate	$209.99
TOW-AME25-TBA	Hinged Base Adapter	$329.99
TOW-AME25-WM	Wall Mount Support for Hinged Plate Mount	$405.99
TOW-AME-DA-18	Upper Tower Bracket for AME25-WM	$119.99
TOW-AME25-TA	Torque Arm	$385.99
Amerite 45 Series Sections and Components		
TOW-AME45	Tower Section, 10'	$349.99
TOW-AME45-T	Top Section, 9'	$405.99
TOW-AME45-55-AS	Accessory Shelf	$215.99
TOW-AME45-ABC	Anchor Base Cage	$299.99
TOW-AME45BK	Joint Bolt Kit, Replacement Hardware	$18.89
Amerite 55 Series Sections and Components		
TOW-AME55	Tower Section, 10'	$469.99
TOW-AME55-B5	Base Section, 5'	$249.99
TOW-AME55BK	Joint Bolt Kit, Replacement Hardware	$21.89

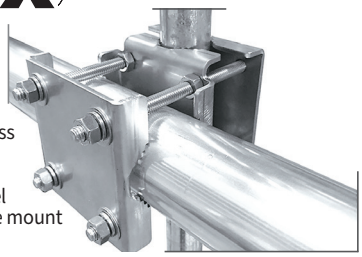
Tower Assistant



You spent a lot of money on your tower—don't risk damaging it with errant hammer blows. American Tower makes this tool precisely for its Amerite Tower designs. It has multiple uses, from splitting apart stubborn sections to aligning sections together. The unique leverage mechanism will save you from back and arm strain, too.

TOW-AME-TAT Tower Assistant **$175.99**

Genius Clamps



If you've ever struggled to mount a horizontal cross bar to a piece of vertical tubing, then you'd probably call these "Genius!" Clamps, too. They're the ideal way to create a tower standoff to side-mount an extra antenna. These stainless steel clamps are sized for 1" to 2" OD pipe, in both horizontal and vertical orientation. Two versions are available, one for a parallel standoff, and another to create a right angle mount that's perfect for installing a vertical mast. Genius Clamp hardware is sold separately.

DXE-SSGC-2P Genius Clamps, Right Angle, Pair **$77.99**
DXE-SSGC-2VP Genius Clamps, Parallel, Pair **$92.99**

Genius Clamps Hardware Sets
Since we don't know your specific application, we don't include hardware. Hex bolt fasteners for Genius Clamps are available separately; select the sizes you need in the table nearby. The sets include 8 full-thread bolts or rods, 16 nuts, 8 flat washers and 8 split washers. The thread is 5/16"-18.

Part Number	Bolt Length	Price
DXE-SSGCBOLT-4	4"	**$10.49**
DXE-SSGCBOLT-4-5	4.5"	**$18.49**
DXE-SSGCBOLT-5	5"	**$18.79**
DXE-SSGCBOLT-5-5	5.5"	**$19.99**
DXE-SSGCBOLT-6	6"	**$20.99**
DXE-SSGCBOLT-6-5	6.5"	**$23.99**

Lightning Rod Mounting Solutions from DX Engineering



These specially designed clamps are the best way to affix a lightning rod to the top of your tower. The heavy-duty, stainless steel assemblies are rugged enough to handle severe weather and will resist corrosion for years of outdoor use. DX Engineering Lightning Rod Mast Mounts will work with lightning rods from 5/8"-3/4" in diameter, and will clamp to any 2"-3" OD mast. The mounting hardware is sold separately; see the table below.

DXE-LRMM Lightning Rod Mast Mounts..... **$75.99**

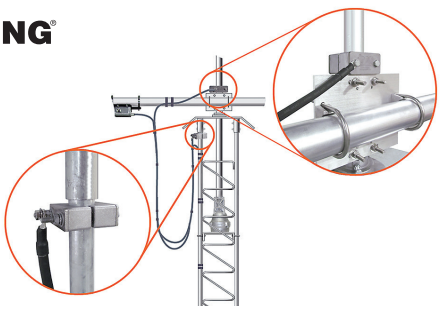
Lightning Rod Mast Mount Fasteners - Here are the complementing fastener kits for the DX Engineering Lightning Rod Mast Mounts. Each set contains 8 threaded rods with 32 matching hex nuts, plus 16 flat and 16 lock washers. Choose your kit based on the OD of the mast you're mounting to.

Part Number	Bolt Length	For Mast OD	Price
DXE-LRMM-FAST7	7"	2"	**$33.98**
DXE-LRMM-FAST7-5	7.5"	2.5"	**$22.49**
DXE-LRMM-FAST8	8"	3"	**$50.99**

Lightning Rod Kits - If you want a complete lightning rod solution for your tower, we've built these combos that bundle together our Lightning Rod Mast Mounts, the appropriate Fastener kit, plus an Erico Lighting Rod. If you have questions on how to properly safeguard your tower from lighting strikes, call us—we'll be happy to help.

Part Number	For Mast OD	Rod L	Rod OD	Rod Tip	Included Fasteners	Price
DXE-LRMM-2-458B	2"	4'	0.625"	Pointed	FAST7	**$326.96**
DXE-LRMM-2-458BS	2"	4'	0.625"	Safety	FAST7	**$294.96**
DXE-LRMM-3-458B	3"	4'	0.625"	Pointed	FAST8	**$343.97**
DXE-LRMM-3-458BS	3"	4'	0.625"	Safety	FAST8	**$271.97**

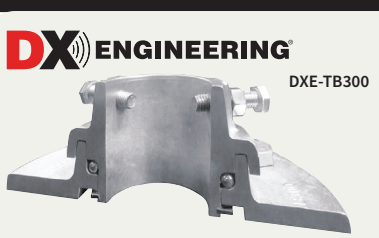
Bearing Bypass Ground Kits



When lightning hits your tower, the first place that massive energy jumps through is the mast thrust bearing. That's bad news for the thrust bearing but worse news for you. Replacing it means removing your antennas—a process that is both time-consuming and really, really expensive.

These kits use heavy-gauge, flexible cable to safely guide lightning energy away from the thrust bearing and down your tower to ground. They're easy to install and cheap insurance against a costly repair.

DXE-BBGK-2-25-P Kit for 2" Mast and Rohn 25G/45G Tower Leg..... **$211.93**
DXE-BBGK-3-25-P Kit for 3" Mast and Rohn 25G/45G Tower Leg..... **$226.93**
DXE-BBGK-3-55-P Kit for 3" Mast and Rohn 55G Tower Leg..... **$229.43**



DXE-TB300

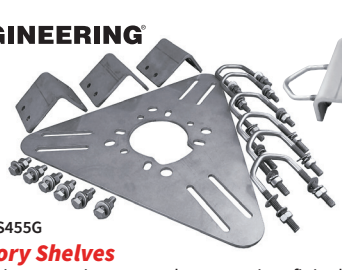


Advanced Design Thrust Bearings

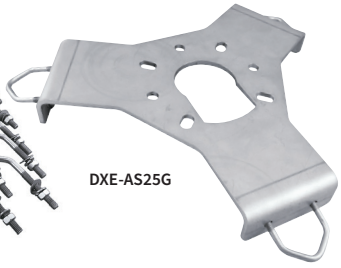
These Advanced Design Thrust Bearings from DX Engineering improve on the standard design in two key areas. First, the ball bearings ride on an all-metal surface, not a seam like other thrust bearings, to promote a longer service life. The precision bearings are made to much tighter tolerances, eliminating the slop found in other thrust bearings.

Secondly, our Mast Thrust Bearings can handle much greater static loads than other models. Not only does that reduce stress on the rotator, it makes rotator service possible without removing your antenna—think about how much hassle, time and money that could save! They fit either a 2" or 3" OD mast and most common tower sizes from Rohn and American Tower.

DXE-TB300 Advanced Design Thrust Bearing, 2" OD Mast..... **$265.99**
DXE-TB400 Advanced Design Thrust Bearing, 3" OD Mast..... **$321.99**



DXE-AS455G



DXE-AS25G

Tower Accessory Shelves

Ever try to pound in a one-piece rotor plate to get it to fit in the midpoint of your tower? DX Engineering's Tower Accessory Shelves are simpler to install and feature a thicker, stainless steel plate for greater stability. The DXE-AS-455G works with both 45G and 55G towers. It lets you easily mount rotators and thrust bearings thanks to its innovative multi-piece design. The shelf is bolstered by three adjustable, stainless steel corner brackets bolted to the plate. Each is secured flush to the tower with two V-bolt clamps for reduced flex.

The DXE-AS-25G is perfect for mounting a rotator to your 25G tower. This rotator plate model has formed integral brackets and includes a set of stainless steel mounting hardware. Note: AS25G and 25 tower do not accommodate internal TB300 Thrust Bearing.

DXE-AS25G Shelf for Rohn 25G and Amerite 25 ..... **$99.99**
DXE-AS455G Shelf for Rohn 45G/55G and Amerite 45/55 ..... **$165.99**

Roof-Mounted Antenna Towers

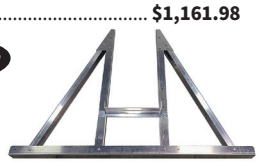


If you're looking for a practical solution to overcome limited space or HOA restrictions, these four sturdy aluminum roof towers from Carlson provide a range of choices for mounting ham radio antennas, including Hex Beams, Low Earth Orbit satellite antennas, and other popular options—both fixed or with a mounted rotator (Hy-Gain or Yaesu). Towers are built to accept the Yaesu GS-065 thrust bearing, as well as mast diameters up to 2.5" and those extended up to 7'. Towers' legs, foot, and rotator shelf are constructed from 6061-T6 aluminum; X-braces are made from 5052-H32 aluminum. Hardware is stainless steel. Made in the USA, the towers are climbable with appropriate safety equipment. **Enter "CES Tower" at DXEngineering.com for more details.**

CES-45HD Roof Tower, 50", 200 Lb. Max Weight, 13 Sq. Ft. Wind Area at 80 MPH..... **$579.98**
CES-610HD Roof Tower, 72", 200 Lb. Max Weight, 12 Sq. Ft. Wind Area at 80 MPH..... **$811.98**
CES-810HD Roof Tower, 95", 200 Lb. Max Weight, 12 Sq. Ft. Wind Area at 80 MPH..... **$927.98**
CES-815HD Roof Tower, 95", 250 Lb. Max Weight, 15 Sq. Ft. Wind Area at 80 MPH..... **$1,161.98**

Heavy-Duty Adjustable Wall/ House Bracket for 25G Towers

New!

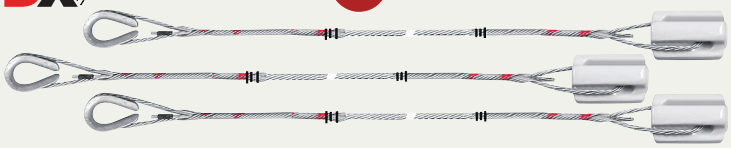


This well-built and good-looking bracket clamps 25G towers (which use a hinge base) onto a solid vertical structure such as a house wall just below the eaves or a commercial brick wall, for example. Designed to maximize material strength and for easy assembly, it features a wall channel length of 52.5", mounting holes every 8" to align both 16" and 24" stud spacing, three-point connection to the tower, adjustability in 3" increments, and included stainless steel hardware. Simply undo the three tower leg clamps to lower the tower.

CES-HD25G-BRKT HD Adjustable Wall Bracket for 25G Towers **$379.99**

DX Engineering carries equipment from more than 180 top manufacturers!

⚠ **WARNING:** For Proposition 65 information, see p. 3



Phillystran Tail Kits

Using a steel tail to terminate your non-metallic guy line is a smart way to protect it from damage—whether its from vandals, brush fires, lawn mowers, fertilizers or ambitious rodents. As recommended by Phillystran, DX Engineering assembled kits to make it easy to install or upgrade your guying system. The kits include 12 feet of galvanized steel guy line, a porcelain strain insulator, Big Grips (for the dead end only), a heavy-duty thimble and cable ties. You supply the guy line and appropriate Big Grip. The kits below are designed for three guy lines. Find individual sets at DXEngineering.com.

Part Number	Guy Line Diameter	Insulator Strength Lbs.	Breaking Strength Lbs.	Price
DXE-PT-4000-3P	0.187"	10,000	3,990	**$201.99**
DXE-PT-6700-3P	0.250"	10,000	6,650	**$229.99**
DXE-PT-11200-3P	0.313"	12,000	11,200	**$239.99**

Dead End and End Sleeve Big Grips

PREFORMED LINE PRODUCTS The connection you can count on.



DX Engineering offers Big Grip Dead Ends and End Sleeves from Preformed Line Products (PLP), a worldwide designer and manufacturer that has been relied upon by major corporations as well as Amateur Radio enthusiasts since 1947. The company's strong and reliable galvanized steel Big Grip Dead Ends are available in multiple sizes to precisely fit your tower guy line installation. Choose PLP Big Grip End Sleeves to finish the application of a dead end on a guy line. The End Sleeves, also known as "Grip Clips" or "Ice Clips," secure the grip tail ends and prevent them from opening or unraveling from ice intrusion or vibration.

Big Grip Dead Ends

PLP-BG2142	Big Grip Dead End for 3/16" EHS Guy	**$10.49**
PLP-BG2144	Big Grip Dead End for 1/4" EHS Guy	**$12.39**
PLP-BG2146	Big Grip Dead End for 5/16" EHS Guy	**$15.59**
PLP-BG2147	Big Grip Dead End for 3/8" EHS Guy	**$20.99**
PLP-BG2115	Big Grip Dead End for 1/2" EHS Guy	**$40.99**
PLP-BG2116	Big Grip Dead End for 9/16" EHS Guy	**$60.99**
PLP-BG2111	Big Grip Dead End for 5/8" EHS Guy	**$94.99**

Big Grip End Sleeves

PLP-GC-65303	Big Grip End Sleeve for 3/16" Dead End	**$6.99**
PLP-GC-65136	Big Grip End Sleeve for 1/4" Dead End	**$7.69**
PLP-GC-65128	Big Grip End Sleeve for 5/16" Dead End	**$7.99**

LOOS & CO. INC CABLEWARE® DIVISION

Professional Guy Line Tension Gauges



Avoid serious safety issues by ensuring that your guy lines are properly tensioned. These gauges offer professional-level accuracy and are easy to use. They'll gauge the tension of your tower guy lines, large tent supports and sailboat rigging. The gauges accept lines from 3/32" to 3/8" OD.

LOO-PT-1	3/32"-5/32" Tension Gauge, 70-800 Lb. Range	**$162.99**
LOO-PT-2	3/16"-1/4" Tension Gauge, 180-2,000 Lb. Range	**$169.99**
LOO-PT-3	1/4"-3/8" Tension Gauge, 550-4,500 Lb. Range	**$329.99**



Tower Guy Line Galvanized Turnbuckles

Don't trust the integrity of your antenna towers to anything but top-notch gear. These hot-dip galvanized heavy-duty cast steel turnbuckles have threaded casings with Eye/Jaw or Jaw/Jaw screw bolts at opposite ends to provide tension adjustments for metallic or non-metallic guy line tower support systems. They are available in load capacities from 1,200 to 3,500 lbs. and break strengths from 6,000 to 17,500 lbs., allowing you to select the turnbuckle best suited to meet and/or exceed your tower's requirements. Depending on model, turnbuckles have adjustment maximums of 6" or 12". Sold individually.

DMV-3-8TBE-J	Turnbuckle, 3/8", Eye/Jaw, 1,200 Lb. Load	**$35.99**
DMV-3-8TBE-J-J	Turnbuckle, 3/8", Jaw/Jaw, 1,200 Lb. Load	**$38.99**
DMV-1-2TBE-J	Turnbuckle, 1/2", Eye/Jaw, 2,200 Lb. Load	**$61.99**
DMV-1-2TBE-J-J	Turnbuckle, 1/2", Jaw/Jaw, 2,200 Lb. Load	**$67.99**
DMV-5-8TBE-J	Turnbuckle, 5/8", Eye/Jaw, 3,500 Lb. Load	**$65.99**

Phillystran® Non-Metallic Tower Guy Line



These insulator-free, non-metallic guys have been protecting the towers of knowledgeable amateur radio operators since 1973. Following their introduction, Phillystran Guy Lines have been installed on commercial broadcast towers worldwide. Electrically transparent Phillystran tower guys are protected by an extruded jacket, providing excellent resistance to weather and abrasion, along with a host of other benefits.

- Complete isolation of tower-guy system from the antenna field
- Improved signal coverage, eliminating distortion caused by re-radiated signals
- Quick, easy, maintenance-free tower installations
- A neat tower appearance, free of corroded steel guys and troublesome ceramic insulators (solving arcing white noise issues, too)
- No need to calculate guy lengths to avoid guy line resonance
- No insulators required
- None of the stretching or aging problems associated with conventional synthetic ropes
- No more zapping, snapping and crackling across porcelain insulators

PHI-HPTG-1200I	4mm Dia., 1,200 Lbs. Break Strength	per foot **$0.99**
PHI-HPTG-2100I	6mm Dia., 2,100 Lbs. Break Strength	per foot **$1.39**
PHI-HPTG-4000I	8mm Dia., 4,000 Lbs. Break Strength	per foot **$1.99**
PHI-HPTG-6700I	9mm Dia., 6,700 Lbs. Break Strength	per foot **$2.75**
PHI-HPTG-11200I	11mm Dia., 11,200 Lbs. Break Strength	per foot **$3.75**

Phillystran® Big Grip Dead-Ends



Phillystran has answered the call for field-installable, non-metallic tower-guy systems with HPTG-I and PLP Big Grip Dead-Ends. Phillystran Big Grip Dead-Ends have a variety of unique features:

- Grip designed to match rope twist direction (RHL)
- Special-sized wires for ease of application
- Galvanized steel and "C" coat construction
- Color-coded for ease of identification
- Longer length to match Phillystran's high performance forged steel galvanized wire rope clips are recommended for the small PHI-HPTG-1200I Guy Line

PHI-PLP-2738	Blue Tag, Use with HPTG-2100I Guy Line	**$15.99**
PHI-PLP-2739	Yellow Tag, Use with HPTG-4000I Guy Line	**$20.99**
PHI-PLP-2755	Red Tag, Use with HPTG-6700I Guy Line	**$29.99**
PHI-PLP-2558	Black Tag, Use with HPTG-11200I Guy Line	**$35.99**

Vinyl End Caps for Phillystran® Guy Line



Heavy-duty vinyl to cover and protect cut cable ends.

DXE-H166	Use with HPTG-1200I Guy Line, Pack of 20	**$19.99**
DXE-H165	Use with HPTG-2100I Guy Line, Pack of 20	**$19.99**
DXE-H164	Use with HPTG-4000I Guy Line, Pack of 20	**$19.99**
DXE-H142	Use with HPTG-6700I Guy Line, Pack of 20	**$19.99**
DXE-H204	Use with HPTG-11200I Guy Line, Pack of 20	**$19.99**

Insulator and Bent Pin Shackle Kits

DXE-INS-P2



These kits are the ideal way to secure your guy lines to your tower, while protecting your antenna from RF noise generated by those guy lines. They feature porcelain insulators and galvanized steel shackles. Each shackle accepts Big Grip dead ends and is compatible with both metallic and non-metallic guy lines. The kits include three insulators and three shackles.

DXE-INS-P1	Kit , 504-Style Insulators, 12,000 Lb. Break Strength	**$261.98**
DXE-INS-P2	Kit , 502-Style Insulators, 10,000 Lb. Break Strength	**$253.98**



Guy Line Guards

Here's another smart way to protect your ham radio investment. Guy Line Guards from DX Engineering can be used on towers to prevent damage to coaxial cable rotator loops that rub directly on metal guy lines or dead ends. The high-visibility yellow poly plastic guy line guard tubes are 46" long and come split lengthwise for easy installation on existing coaxial cable. A hole in each tube lets you secure it firmly in place with a zip-tie. The brightly-colored guards may also be mounted at the bottom of guy lines to warn people that the guy line is present.

DXE-GLG4-3P	Guy Line Guards, Set of 3	**$35.99**

Check out our YouTube channel for in-depth tech tips and product demos!

⚠ **WARNING:** For Proposition 65 information, see p. 3

DXE-TFK15

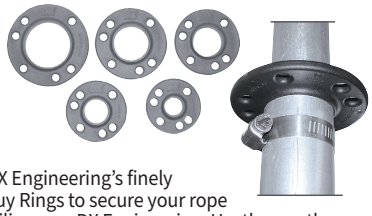


15, 25, and 46 Foot Telescoping Fiberglass Tubing Mast Kits

Perfect for operating on the go or testing antenna projects in your backyard, the kits come with finely finished, high-quality pultruded fiberglass tubing featuring nominal 0.120" wall thicknesses, offering strength and durability. Depending on the kit, tubing is collapsible to either 4' or 7.5' for easy storage, convenient loading in a vehicle, and reduced shipping costs. Heavy-duty model comes with 3" O.D. base section.

- Custom-made tubing
- Smooth telescoping
- Neutral light gray color
- Includes DX Engineering cam lock clamps, adjustment wrench and vinyl cap

DXE-TFK15	15' Telescoping Tubing Kit	**$122.98**
DXE-TFK25	25' Telescoping Tubing Kit	**$237.98**
DXE-TFK46	46' Telescoping Tubing Kit	**$215.98**
DXE-TFK46-HD	46' Heavy-Duty Telescoping Tubing Kit	**$281.98**



Guy Rings

You can use DX Engineering's finely engineered Guy Rings to secure your rope guys and stabilize your DX Engineering, Hustler or other aluminum vertical antenna. They're also great for our Telescoping Fiberglass and Aluminum Tubing Kits.

These guy rings are super strong, virtually impervious to the elements and fit 0.75", 1.0", 1.25", 1.50" and 2.0" OD tubing. For all the specs, please visit DXEngineering.com.

DXE-GR-2P	Guy Rings, Set of 2	**$5.29**
DXE-GR-4P	Guy Rings, Set of 4	**$10.29**
DXE-GR-5P	Guy Rings, Set of 5	**$9.29**



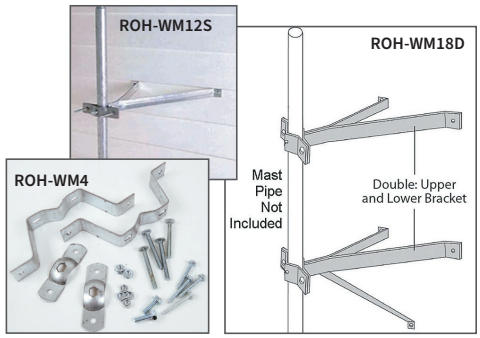
Shown with optional parts.

HF Antenna Mounting Heavy-Duty Pivot Base

You don't have to call a buddy—this base lets you raise your antenna without asking for help. It's perfect for both monoband and multi-band HF vertical antennas. In fact, this is the same base supplied with many of DX Engineering's vertical antenna kits.

Made with stainless steel components and extra-strong Extren® insulated channels, the DX Engineering Pivot Base is an excellent HF antenna mounting solution. Visit DXEngineering.com to see exact installation parameters.

DXE-VA-PIVOT-3	Pivot Base, for 3" OD Base Tubing	**$713.99**



Wall Mounts

Take advantage of rigid walls; use a Rohn Wall Mount to install your antenna. These mounts include all the clamps and hardware you need, just add your mast and you're ready to go. They handle .875"-2.75" OD tubing and hold the mast away from your wall. They're hot-dip galvanized to resist corrosion.

Part Number	Wall Clearance	Brackets Included	Price
ROH-WM4	3"	2	**$46.99**
ROH-WM12S	12"	1	**$53.99**
ROH-WM18S	18"	1	**$56.99**
ROH-WM18D	18"	2	**$103.99**
ROH-WM24S	24"	1	**$58.99**
ROH-WM24D	24"	2	**$105.99**

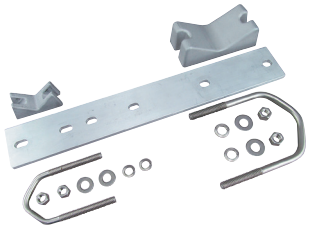
DXE-VA-BASE



Telescoping Aluminum Antenna Kit

- Eleven telescoping sections from 2" to 7/8" OD
- Stainless steel element clamps

DXE-ATK65A	Telescoping Aluminum Antenna Kit	**$499.99**
DXE-VE-BASE	Vertical Antenna Fixed Base Assembly, Insulated	**$116.99**
DXE-VA-BASE	Vertical Antenna Tilt Base Assembly, Insulated	**$202.99**



Mastlock Mast Anti-Rotation Assembly

Bid farewell to the frustration of battling unwanted mast movement when you've got work to do. Made exclusively for use with Rohn and Amerite towers, the Mastlock enables you to lock your tower mast in position and remove the rotor without having the mast slip downward. It's also perfect for keeping your antenna in place when performing maintenance. Use of two Mastlock assemblies is recommended to keep the mast centrally located. The Mastlock comes with 6061-T6 aluminum anti-rotation bracket and stainless steel V-clamps and hardware. Compatible with Rohn and Amerite 25, 45 and 55 Series towers.

DXE-MASTLOCK	Anti-Rotation Tower Assembly	**$69.99**



Heavy-Duty 4130 Chromoly Steel Masts

Serious antenna builders know you can't compromise on anything. With that in mind, DX Engineering offers you super-strong masts perfectly suited to Amateur Radio applications. Available in 2 or 3 inch outside diameters, these galvanized steel masts have a 1/4" wall thickness for extra rigidity. The masts have a yield stress rating over 100,000 psi, a minimum Rockwell hardness of 96, and a galvanized coating that meets ASTM A123/M specifications.

They are sold in 11' or 22' lengths; DX Engineering will help arrange low-cost truck freight shipping and ensure that the ordering process will go smoothly. Call 800-777-0703 to get started and use the online Mast Load Estimator tool at DXEngineering.com to test your proposed installations.

Heavy-Duty 4130 Chromoly Steel Mast

DXE-ST200CM-11	11', 2" OD	**$405.99**
DXE-ST300CM-11	11', 3" OD	**$555.99**
DXE-ST200CM-22	22', 2" OD	**$751.99**
DXE-ST300CM-22	22', 3" OD	**$999.99**

DXE-ABT3-24R



Antenna Boom Tubing Kits

Whether you're replacing a 3" boom or building a new one, here's the ideal solution for antenna boom projects. For 48' booms, the ABT3-48 kit comes with two 24' pieces of 3" x 0.120" wall tubing and one 24' long, 2.715" x 0.132" wall splice insert tube. The ABT3-24R comes with one 24' piece of 3" x 0.120" wall tubing and one 24' long, 2.715" x 0.132" wall splice insert tube. This can be used to create a very strong 24' double wall boom, or an extended 36' assembly (cutting required). These high-strength, reinforced antenna boom tubes are suitable for Yagis and log periodics from 40 through 10 meters. Pieces require user drilling and fitting. Joining bolts are included. Other hardware must be user supplied.

DXE-ABT3-24R	Antenna Boom Tubing Kit, Up to 36'	**$696.99**
DXE-ABT3-48	Antenna Boom Tubing Kit, 48', 24" OD Splice	**$730.99**
DXE-ABT3-48S	Antenna Boom Tubing Kit, 48', 8' OD Splice	**$601.99**



Yagi Support Bracket Kit

The Diamond Antenna Yagi Support Bracket Kit is used for side mounting a Diamond Antenna VHF or UHF Yagi for vertical polarization. Vertical positioning on a metal mast disturbs the radiation pattern. This boom support mounting bracket mounts onto a mast of up to 1.750" diameter. Due to cross-polarization effects, side mounting in the vertical position dramatically improves the performance of these Diamond beams for FM operations. This support is not required for the horizontal mounting of Diamond Yagis for horizontal polarization.

Want to go vertical for FM repeater or mobile contacts? Order a Diamond Antenna Yagi Support Bracket Kit from DX Engineering and see the difference correct polarization can make.

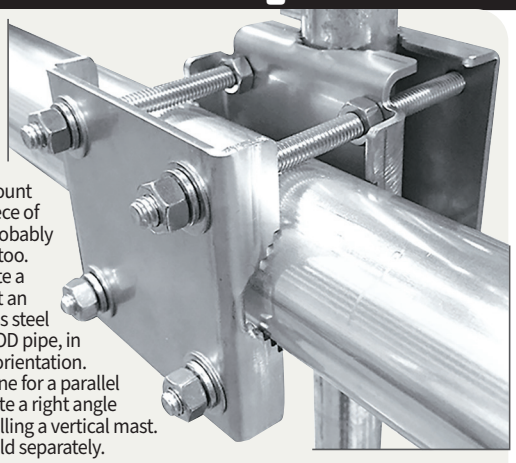
DMN-KB430	Yagi Support Bracket Kit	**$25.99**

For new hams, check out our Getting Started HT, Mobile, and Base Radio Packages!

⚠ **WARNING:** For Proposition 65 information, see p. 3

DX ENGINEERING

Genius Clamps



If you've ever struggled to mount a horizontal cross bar to a piece of vertical tubing, then you'd probably call these "Genius!" Clamps, too. They're the ideal way to create a tower standoff to side-mount an extra antenna. These stainless steel clamps are sized for 1" to 2" OD pipe, in both horizontal and vertical orientation. Two versions are available, one for a parallel standoff, and another to create a right angle mount that's perfect for installing a vertical mast. Genius Clamp hardware is sold separately.

DXE-SSGC-2P	Genius Clamps, Right Angle, Pair	**$77.99**
DXE-SSGC-2VP	Genius Clamps, Parallel, Pair	**$92.99**

Stainless Steel Genius Clamp hardware

DXE-SSGCBOLT-6-5	6.5" Bolt Length, 5/16"-18 Thread, Set of 8	**$23.99**
DXE-SSGCBOLT-6	6" Bolt Length, 5/16"-18 Thread, Set of 8	**$20.99**
DXE-SSGCBOLT-5-5	5.5" Bolt Length, 5/16"-18 Thread, Set of 8	**$19.99**
DXE-SSGCBOLT-4-5	4.5" Bolt Length, 5/16"-18 Thread, Set of 8	**$18.49**
DXE-SSGCBOLT-5	5" Bolt Length, 5/16"-18 Thread, Set of 8	**$18.79**
DXE-SSGCBOLT-4	4" Bolt Length, 5/16"-18 Thread, Set of 8	**$10.49**

DX ENGINEERING

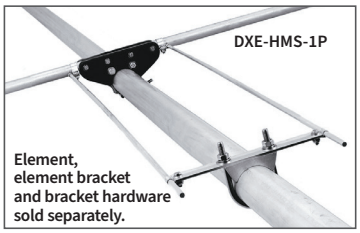
Hairpin-Style Driven Element Matching Kits





Most Yagi antennas have a feedpoint impedance of about 25 Ω. Obviously, this will not allow a connection to a 50 Ω feedline without a serious mismatch.
There are various ways to match the driven element to the feedline successfully. Gamma, T-Match and the Hairpin (aka Beta Match) are favorites.

The Gamma match is an unbalanced system that typically distorts the antenna pattern. The T-Match is basically two Gamma match systems on either side of the boom, which corrects the imbalance but is a mechanical nightmare and difficult to tune correctly.



The DX Engineering Hairpin is balanced and easy to tune. It has the correct electrical and mechanical design to allow it to be easily installed and tuned in 10 minutes, and has enough capacity for almost any Yagi design. Complete your installation with elements, element brackets and bracket hardware, available separately.

For use with BEB-2 Insulated Boom-to-Element Brackets

DXE-HMS-1P	Hairpin Matching Syst., 10-30 MHz, Fits 2" Boom	**$71.99**

For use with BEB-3 Insulated Boom-to-Element Brackets and an SEI Split Element Insert

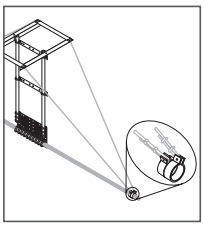
DXE-HMS-2P	Hairpin Matching Syst., 24.9-54 MHz, Fits 1-1.75" Boom	**$87.99**

For use with BEB-1 Insulated Boom-to-Element Brackets

DXE-HMS-4P	Hairpin Matching Syst., 10-30 MHz, Fits 3" Boom	**$71.99**

DX ENGINEERING

Boom Support Parts





DXE-ATBB-2

As antennas become larger, booms become longer, or the wind speed becomes higher, our 3 inch Boom Support Systems will keep the boom straight. Your antenna will look better, perform better and survive storms in better shape. Many of the individual pieces in these systems are available separately so you can design and build your own support systems.

2 Inch Boom Support Components

DXE-ATBB-2	2" Boom Bracket	**$14.99**

3 Inch Dual Boom Support System and Components

DXE-ATBB-3	3" Boom Bracket	**$12.99**

Turnbuckles



DXE-TRBK-14

DXE-TRBK-14	Turnbuckle, 5.25" Retracted, 7.375" Extended	**$8.49**
DXE-TRBK-15	Turnbuckle, 6.5" Retracted, 9.125" Extended	**$10.49**

In-Stock Parts Typically Ship The Same Day.

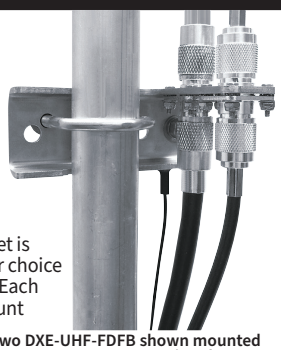
DX ENGINEERING



DXE-1023-2

DXE-CGB-150





Two DXE-UHF-FDFB shown mounted to a DXE-CGB-150 using the hardware kit DXE-FSM-HWK

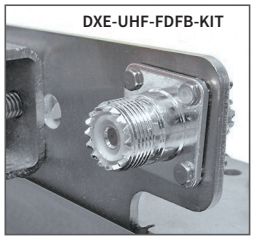
Coaxial Cable Grounding Brackets

The CGB-Series Coax Grounding Brackets are designed for grounding coaxial cable shields. The stainless steel bracket is supplied with a stainless steelV-bolt and hardware in your choice of two sizes for a solid connection to a tower leg or mast. Each bracket has holes for bulkhead connectors or chassis mount connectors, listed below.

The Grounding Bracket is an ideal junction point for the coax pigtails that form the rotor loop to connect to the downleads. The bracket can also be used at the base of the tower to provide a solid grounding point before the coax cable is routed away from the grounded tower. The bracket has serrated teeth to bite through paint and corrosion.

DXE-CGB-200	Grounding Bracket, Fits 1" to 2" OD Tube	**$22.99**
DXE-CGB-150	Grounding Bracket, Fits 1" to 1.50" OD Tube	**$21.99**
DXE-363-SST	SO-239, Bulkhead Connector with Socket Hardware	**$11.99**
DXE-UHF-FDFB-KIT	Bulkhead Connector and Hardware Kit	**$18.28**
DXE-1023-2	Type N Double Female Bulkhead Adapter, Pack of 2	**$34.99**

DXE-UHF-FDFB-KIT



Insulated Boom-to-Element Brackets

DX Engineering offers insulated boom-to-element brackets to fit 1.75 inch, 2 inch and 3 inch OD booms. The non-metallic brackets electrically insulate the elements from the boom, which virtually nullifies the shortening effect that the boom and the normal metallic boom-to-element plates have on element length. This means the element lengths calculated through antenna design programs like YO, EZNEC and others will correspond more closely to the actual lengths needed. In most cases, the cost of the boom-to-element brackets is less than using a metallic plate and the necessary saddle clamps.

DXE-BEB-2 with Gorilla Grip® Boom Clamp



The DXE-BEB-2 is made from an extremely strong, UV-resistant polymer. When bolted to your 2 inch boom using our hardware kit and the included Gorilla Grip boom clamp, it will easily support a split 20M element without a fiberglass centerpiece. It is a budget friendly way to insulate the elements when you're building your next Yagi, LPDA or any boom antenna with a 2" OD boom.

The BEB-2 accepts up to a 7/8 inch element, which is perfect for most 20-6M antennas. Building a large antenna? Use our DXE-BEB-1 Boom-to-Element Bracket.

The DXE-BEB-2 comes in 2 pieces and bolts together with a DXE-BEB-2HWK Stainless Steel Hardware Clamp Kit that also holds it securely to the boom. The hardware kit includes four stainless steel bolts, washers and lock nuts for assembling the bracket. A Gorilla Grip® stainless steel boom clamp is included to attach the element to the bracket. The vibration-resistant nuts have nylon inserts. The DXE-BEB-2HWK Hardware Kit for the DXE-BEB-2 Bracket is sold separately. Larger antennas that experience high winds will require the boom clamp to be pinned to the boom.

DXE-BEB-2	Insulated Boom-to-Element Bracket, 2" Boom	**$31.99**
DXE-BEB-2HWK	Hardware Kit for DXE-BEB-2	**$22.99**

DXE-BEB-3

DXE-SEI-1

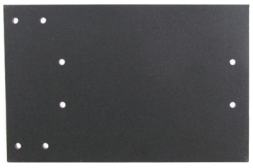




Great for 6 meter Yagis, the DXE-BEB-3 Insulated Boom-to-Element Bracket is a handy, budget-conscious way to mount elements to smaller (1.25 inch to 1.75 inch) booms. The bracket accepts elements up to 3/4 inches. Use the DXE-SEI-1 Split Element Insulator for 3/4 inch OD aluminum tube for the driven element. The insulator allows the element to be securely clamped without crushing the tube.

DXE-BEB-3	Insulated Boom-to-Element Bracket, 1.25", 1.50" or 1.75" Boom	**$15.99**
DXE-SEI-1	Split Element Insulator	**$27.99**

KX4O Vertical Dipole Antenna Support Plate



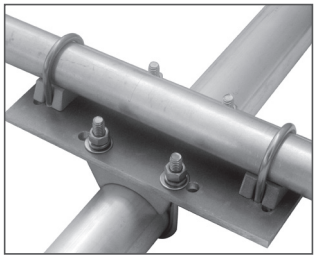
When John Huggins, KX4O designed his revolutionary AHVD Vertical Dipole, he probably didn't imagine that it would become so popular. The unusual "upside-down T" design delivers such impressive 20-10M coverage, that it's no surprise operators started building them. Let this plate be the foundation of your build. The weather-resistant 0.25" thick polymer plate measures 11.5" x 7.5" and is pre-drilled for easy assembly.

DXE-MMP-KX4O	KX4O Vertical Dipole Support Plate	**$27.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3



DXE-BEP-4B



Boom-to-Element Plates

Boom-to-element plates are similar in function to insulated boom-to-element brackets, in that they each attach the elements to the boom. The primary advantage of plates over brackets is that it is a simple mechanical arrangement. The main disadvantage is that the plate does not insulate the element from the boom, which means that the element dimensions that you bring from your antenna design program (YO, AO, EZNEC and others) will be incorrect unless you make some length adjustment for the width of the plate and boom.

DXE-BEP-4B

Fabricated from alloy 6061-T6 aluminum, the DXE-BEP-4B is primarily for the smaller 6 meter, 12-10 meter and 17-15 meter beam. This plate can also be used to mount smaller VHF/UHF antennas to a mast using appropriate clamps. The dimensions of the DXE-BEP-4B are 8 inch L x 3.5 inch W x 0.25 inch T. This plate comes pre-drilled for DX Engineering Saddle Clamps.

- For mounting a 2 inch boom use (2) DXE-SAD-200A Clamps
- For mounting a 1.50 inch boom use (2) DXE-SAD-150A Clamps
- For mounting a 1.25 inch grounded element use (2) DXE-SAD-125A Clamps
- For mounting a 1 inch grounded element use (2) DXE-SAD-100 Clamps
- For mounting a 3/4 inch grounded element use (2) DXE-SAD-075 Clamps

DXE-BEP-5B



DXE-BEP-5B

Fabricated from alloy 6061-T6 aluminum, the DXE-BEP-5B is for the larger 17-15 meter and 20 meter beams. This plate can also be used to mount smaller VHF/UHF antennas to a mast using appropriate clamps. The dimensions of the DXE-BEP-5B are 8 inch L x 3.5 inch W x 0.25 inch T. The plate comes pre-drilled for DX Engineering saddle clamps.

- For mounting a 3 inch boom use (2) DXE-SAD-300A Clamps
- For mounting a 2 inch boom use (2) DXE-SAD-200A Clamps
- For mounting a 1.50 inch grounded element use (2) DXE-SAD-150A Clamps
- For mounting a 1.25 inch grounded element use (2) DXE-SAD-125A Clamps
- For mounting a 1 inch grounded element use (2) DXE-SAD-100 Clamps

DXE-BEP-4B Boom-to-Element Plate, 1.5" or 2" booms.....**$22.99**

DXE-BEP-5B Boom-to-Element Plate, 2" or 3" booms.....**$23.99**

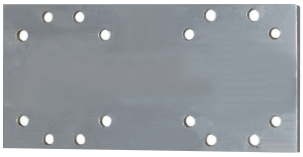
Pre-Drilled Boom-to-Mast Mounting Plate



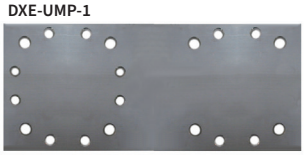
DX Engineering BMP-2B Boom-to-Mast Plates keep your Yagi stable and properly secured on the mast. Fabricated from 0.250 in. thick 6061-T651 aluminum, BMP-2B plates come pre-drilled for DX Engineering Saddle Clamps for greater clamping power without crushing the tubing.

DXE-BMP-2B Plate for 1.5", 2", 3" Mast and Boom, Pre-Drilled, 8" W x 10" L **$37.99**

Multi-Purpose Mounting Plates



DXE-UMP-1



DXE-UMP-2

These universal mounting plates can be used for many applications. They are available in aluminum or non-conductive black polymer and come blank or pre-drilled to accept our standard DXE-CAVS-1P V-Saddle Clamps, which can accommodate tubing or pipe from 1/2 inch to 1.75 inch OD.

If you are looking for larger sizes, one of our Boom-to-Mast Plates may work. They are available for 1.75 inch, 2 inch and 3 inch OD tubing or pipe. Visit DXEngineering.com for the clamps recommended for use with each specific plate.

DXE-UMP-1 Universal Mounting Plate for 1.75" Saddle Clamp.....**$19.59**

DXE-UMP-2 Universal Mounting Plate for 2" Saddle Clamp.....**$18.29**

DXE-MMP-P2 Non-Conductive Blank Polymer Plate, 1/4" x 7.5" x 11.5".....**$8.99**

DXE-MMP-P3 Non-Conductive Blank Polymer Plate, 1/4" x 7.5" x 16".....**$9.99**

DX Engineering Yagi Mechanical® Antenna Design Software Download

Developed specifically for antenna-building enthusiasts, DX Engineering Yagi Mechanical Antenna Design Software has been built from the ground up to display a greater range of accurate data while streamlining the design and planning of your beam antenna project.

This completely new version provides greater flexibility in tubing types, simplified data entry, and automated measurement conversions.

In addition, Yagi Mechanical now delivers:

- 3D views
- Real-world mechanical strength calculations
- Real-world wind load calculations
- Material costing
- Links to DX Engineering material

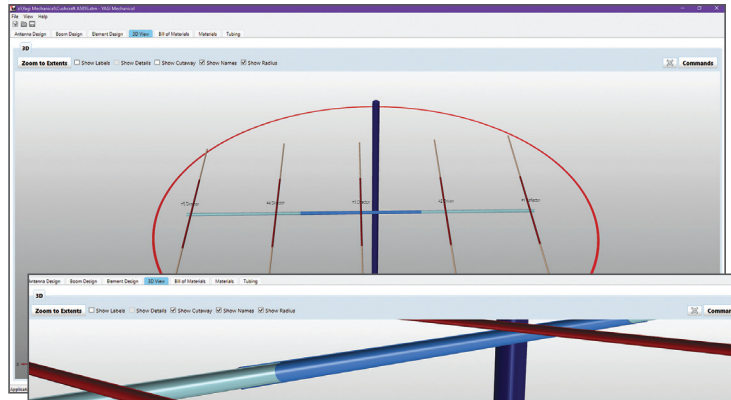
FREE trial version at YagiMechanical.com

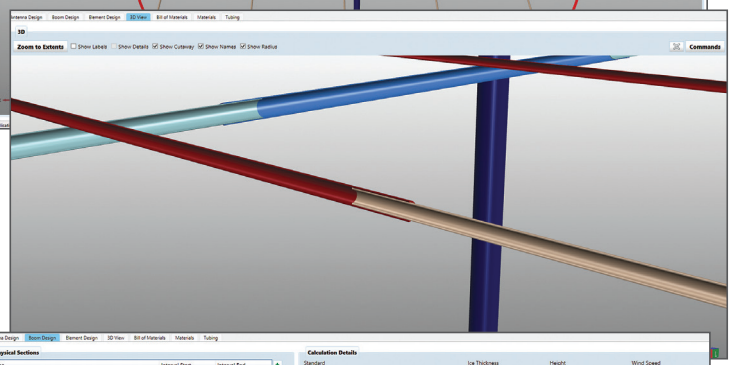
If you are interested in Yagi Mechanical, you can download a trial version FREE! The save, print, and update functions are disabled, but the rest of the program is fully functional, allowing you to try everything before you buy.

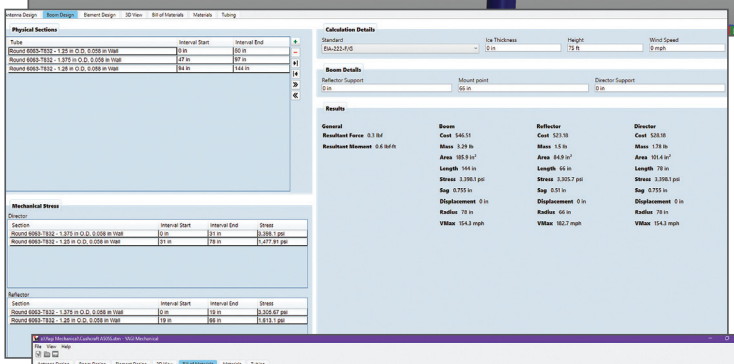
The product listing Overview of the software found at DXEngineering.com contains a web link that provides a free trial version download, or visit YagiMechanical.com to start your free trial and see for yourself the amazing benefits of this significantly upgraded software. Unlock the full version with the purchase of a Yagi Mechanical software license, which is delivered by email typically within two business days.

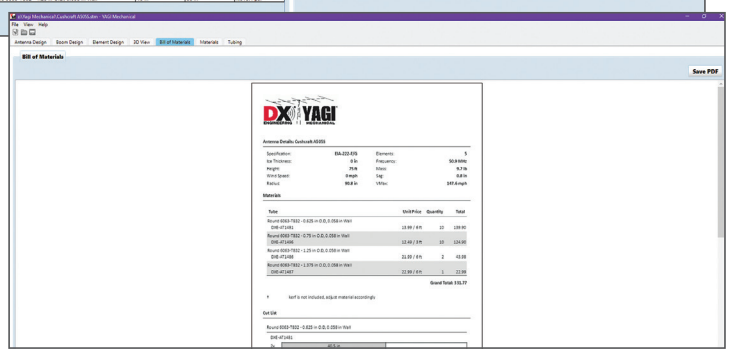
Enter "Yagi Mechanical" at DXEngineering.com for more details.

DXE-YAGIMECH6.....**$69.99**









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DX ENGINEERING

Aluminum Tubing

Custom-made for DX Engineering, this high strength Type 6063-T832 seamless drawn aluminum tubing is available in 3 and 6 foot lengths. Type 6063 alloy provides good resistance to general corrosion, including stress corrosion cracking and has excellent surface appearance.

Use the 3 foot lengths for fast taper, low-wind resistance applications. The 6 foot slow taper lengths afford the greatest bandwidth. Most sizes are slit on one end for use with DX Engineering Stainless Steel Element Clamps. If unslit ends are required for your application, merely insert the slit end into the next larger size in the stack and use your own attachment method.



The 0.058" wall tubing is available in 1/8" increments from 3/8" to 2 1/8" OD. It is ideal for a free, yet solid telescoping fit from size to size for vertical or Yagi elements. Some larger sizes are available in 0.120" wall, 6061-T8 aluminum, which assures maximum strength at very long assembly lengths.

- High-strength Type 6063 seamless aluminum tubing—drawn, not extruded
- Ideal for telescoping antenna elements, support masts and booms
- Available in unslit and pre-slit lengths
- Use DX Engineering Stainless Steel Element Clamps to assemble lengths of slit tubing

Stainless steel element clamps for exact tubing sizes are available at DXEngineering.com.

Aluminum Tubing, No Slit

Part Number	OD	Wall	Length	Each
DXE-AT1240	0.375"	0.058"	3 Foot	$11.49
DXE-AT1494	0.500"	0.058"	3 Foot	$16.49
DXE-AT1495	0.625"	0.058"	3 Foot	$16.99
DXE-AT1496	0.750"	0.058"	3 Foot	$16.49
DXE-AT1497	0.875"	0.058"	3 Foot	$16.99
DXE-AT1498	1.000"	0.058"	3 Foot	$17.99
DXE-AT1499	1.125"	0.058"	3 Foot	$18.49
DXE-AT1500	1.250"	0.058"	3 Foot	$18.99
DXE-AT1501	1.375"	0.058"	3 Foot	$19.49
DXE-AT1502	1.500"	0.058"	3 Foot	$20.49
DXE-AT1503	1.625"	0.058"	3 Foot	$20.99
DXE-AT1504	1.750"	0.058"	3 Foot	$21.49
DXE-AT1505	1.875"	0.058"	3 Foot	$22.49
DXE-AT1506	2.000"	0.058"	3 Foot	$23.49
DXE-AT1255	2.000"	0.120"	3 Foot	$32.99
DXE-AT1507	2.125"	0.058"	3 Foot	$24.99
DXE-AT2045	0.25"	0.035"	3 Foot	$10.99
DXE-AT1189	0.375"	0.058"	6 Foot	$8.99
DXE-AT1480	0.500"	0.058"	6 Foot	$13.49
DXE-AT1481	0.625"	0.058"	6 Foot	$18.49
DXE-AT1482	0.750"	0.058"	6 Foot	$19.49
DXE-AT1483	0.875"	0.058"	6 Foot	$22.99
DXE-AT1484	1.000"	0.058"	6 Foot	$24.99
DXE-AT1485	1.125"	0.058"	6 Foot	$27.49
DXE-AT1486	1.250"	0.058"	6 Foot	$28.99
DXE-AT1487	1.375"	0.058"	6 Foot	$29.99
DXE-AT1488	1.500"	0.058"	6 Foot	$31.49
DXE-AT1489	1.625"	0.058"	6 Foot	$33.99
DXE-AT1490	1.750"	0.058"	6 Foot	$35.49
DXE-AT1491	1.875"	0.058"	6 Foot	$37.99
DXE-AT1492	2.000"	0.058"	6 Foot	$40.49
DXE-AT1493	2.125"	0.058"	6 Foot	$41.99
DXE-AT2046	0.25"	0.035"	6 Foot	$14.99

Aluminum Tubing with One End Slit

Part Number	OD	Wall	Length	Each
DXE-AT1241	0.500"	0.058"	3 Foot	$23.49
DXE-AT1242	0.625"	0.058"	3 Foot	$24.99
DXE-AT1243	0.750"	0.058"	3 Foot	$25.49
DXE-AT1244	0.875"	0.058"	3 Foot	$26.99
DXE-AT1245	1.000"	0.058"	3 Foot	$27.49
DXE-AT1246	1.125"	0.058"	3 Foot	$28.99
DXE-AT1247	1.250"	0.058"	3 Foot	$29.49
DXE-AT1248	1.375"	0.058"	3 Foot	$29.99
DXE-AT1249	1.500"	0.058"	3 Foot	$30.99
DXE-AT1250	1.625"	0.058"	3 Foot	$31.49
DXE-AT1251	1.750"	0.058"	3 Foot	$31.99
DXE-AT1252	1.875"	0.058"	3 Foot	$32.49
DXE-AT1253	2.000"	0.058"	3 Foot	$33.99
DXE-AT1205	0.500"	0.058"	6 Foot	$25.99
DXE-AT1206	0.625"	0.058"	6 Foot	$27.99
DXE-AT1207	0.750"	0.058"	6 Foot	$29.49
DXE-AT1208	0.875"	0.058"	6 Foot	$31.99
DXE-AT1209	1.000"	0.058"	6 Foot	$33.99
DXE-AT1210	1.125"	0.058"	6 Foot	$36.49
DXE-AT1211	1.250"	0.058"	6 Foot	$38.99
DXE-AT1212	1.375"	0.058"	6 Foot	$40.49
DXE-AT1213	1.500"	0.058"	6 Foot	$41.99
DXE-AT1214	1.625"	0.058"	6 Foot	$44.49
DXE-AT1215	1.750"	0.058"	6 Foot	$45.49
DXE-AT1216	1.875"	0.058"	6 Foot	$46.99
DXE-AT1217	2.000"	0.058"	6 Foot	$49.49
DXE-AT1218	2.125"	0.058"	6 Foot	$50.99
DXE-AT2553	0.375"	0.058"	6 Foot	$22.99

6061-T8 Aluminum Tubing, Heavy Wall, No Slit
Ideal for Booms and HD Element Designs.

Part Number	OD	Wall	Length	Each
DXE-AT1311	1.500"	0.120"	6 Foot	$80.99
DXE-AT1312	1.750"	0.120"	6 Foot	$85.99
DXE-AT1313	2.000"	0.120"	6 Foot	$103.99
DXE-AT1314	2.250"	0.120"	6 Foot	$107.99
DXE-AT1315	2.500"	0.120"	6 Foot	$116.99
DXE-AT1316	2.750"	0.120"	6 Foot	$126.49
DXE-AT1317	3.000"	0.120"	6 Foot	$137.99

12 ft. Bundles Available.

SS-30™ Pure Copper Anti-Seize Lubricant



Use Jet-Lube on your taps, lugs, aluminum tubing joints, copper grounding straps, clamps, hardware and anywhere you need excellent conductivity.

JTL-12555 Jet-Lube, 0.25 Lb. Brush-Top Can..... $33.99
JTL-12502 Jet-Lube, 0.50 Lb. Brush-Top Can..... $46.99
JTL-12504 Jet-Lube, 1.0 Lb., Brush-Top Can..... $69.99

DX ENGINEERING



Adjustable Length Deburring Tool

DXE-22600 Deburring Tool..... $20.99
DXE-22110 Replacement Blades for Aluminum/Steel, Pack of 10 ..... $17.99

FREE standard shipping on qualifying orders! See page 68 for details and exceptions.



DXE-UT-2125

DXE-UT-KIT-DBR

DX ENGINEERING



DXE-UT-3500

Pipe and Tube Deburring Tools

If you're building a tower, mast or beam antenna, these tools will be worth their weight in gold. They make the tedious deburring process much easier. These tools smooth the rough edges on the inside and outside of your telescoping aluminum, fiberglass, copper, steel or plastic pipe and tubing, assuring a smooth surface when joined with another section.

You can purchase each tool separately or together in a kit that includes both deburring tools, a small hand deburring tool, half-round file and a carrying case.

DXE-UT-KIT-DBR Deburring Tool Kit..... $119.99
DXE-UT-2125 Deburring Tool, for .375" to 2.125" OD Tubing..... $24.99
DXE-UT-3500 Deburring Tool, for 1.875" to 3.5" OD Tubing..... $49.99



DXE-VC-0612 Shown Installed

DX ENGINEERING

Vinyl End Caps

Keep moisture out of open tubes to prevent rust or, worse yet, frozen pipes. These UV-rated black vinyl end caps are also great for sealing your booms or Yagi elements.

Part Number	Length	Tubing Size (OD)	Quantity	Price
DXE-VC-0125	1.000"	0.125"	20	$9.99
DXE-VC-0250	0.500"	0.250"	20	$9.99
DXE-VC-0375	0.500"	0.375"	20	$9.99
DXE-VC-0437	0.500"	0.437"	20	$12.99
DXE-VC-0500	0.500"	0.500"	20	$12.99
DXE-VC-0625	1.000"	0.625"	20	$12.99
DXE-VC-0750	1.000"	0.750"	20	$12.99
DXE-VC-0875	1.000"	0.875"	10	$12.99
DXE-VC-1000	1.000"	1.000"	10	$12.99
DXE-VC-1125	1.000"	1.125"	10	$13.99
DXE-VC-1250	1.000"	1.250"	10	$13.99
DXE-VC-1375	1.000"	1.375"	8	$11.99
DXE-VC-1500	1.000"	1.500"	6	$8.99
DXE-VC-1625	1.000"	1.625"	4	$9.49
DXE-VC-1750	1.000"	1.750"	4	$9.49
DXE-VC-1875	1.000"	1.875"	4	$9.99
DXE-VC-2000	1.000"	2.000"	2	$9.99
DXE-VC-2250	1.000"	2.250"	2	$5.24
DXE-VC-3000	1.000"	3.000"	2	$10.99
DXE-VPC-0677 caps are ideal for PL-259 connectors and the DXE-VC-0612 for SO-239 connectors.				
DXE-VPC-0615-BK	1.437"	0.625"	20, Black	$12.99
DXE-VPC-0615-RD	1.437"	0.625"	20, Red	$12.99
DXE-VPC-0677	1.437"	0.677"	20	$12.99
DXE-VC-0612	0.500"	0.612"	20	$12.99

⚠ WARNING: For Proposition 65 information, see p. 3

DX ENGINEERING®

DX Engineering U-Bolt Saddle Clamps

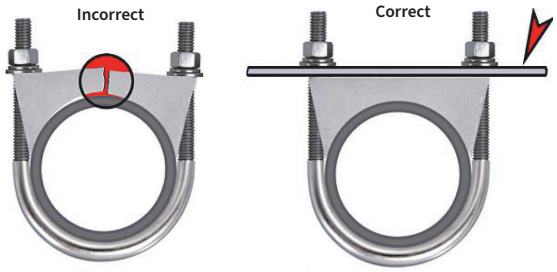
Unlike common hardware store clamps that are sized to fit pipe, our clamps are designed and sized to fit tubing.

The U-Bolt Saddle Clamps come with high strength, 18-8 grade stainless steel U-bolts that are long enough to attach tubing or components to thick mounting plates. The U-bolts are available in 1/4", 5/16" and 3/8" as listed. Note that the 2", 2.5" and 3" clamps are available with either 5/16" or 3/8" U-bolts.

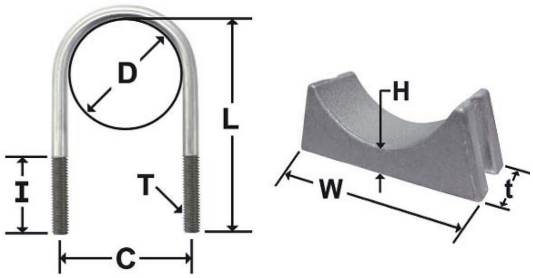
The U-Bolt Saddle Clamp saddles are cast from high strength 535 aluminum, which has superior anti-corrosion properties. Unlike stamped or machined types, the saddles' rippled surface grips tubing closely for a secure fit.

The U-Bolt Saddle Clamps are designed for use with mounting plates, which are available separately. The clamps are sold only as a set with aluminum saddle, stainless steel U-bolts, nuts, flat washers and lock washers.

The use of a lubricant and sealant, such as Jet Lube SS-30 (JTL-2555), is highly recommended to achieve proper torque and prevent galling. DX Engineering sells replacement U-bolts with hardware kits.



Size	DXE Part Number	D	L	C	I	T	Hole Size	W	H	t	Price Each
0.50	DXE-SAD-050A	0.50	1.35	0.75	0.87	1/4"-20	0.266 "H"	0.90	0.188	0.63	**$8.49**
0.75	DXE-SAD-075A	0.75	1.81	1.00	0.87	1/4"-20	0.266 "H"	1.13	0.188	0.75	**$8.99**
1.00	DXE-SAD-100A	1.00	2.06	1.25	0.87	1/4"-20	0.266 "H"	1.50	0.250	1.00	**$9.49**
1.25	DXE-SAD-125A	1.25	2.37	1.50	0.87	1/4"-20	0.266 "H"	1.75	0.250	1.00	**$10.99**
1.50	DXE-SAD-150A	1.50	2.62	1.75	0.87	1/4"-20	0.266 "H"	2.00	0.250	1.00	**$12.99**
1.75	DXE-SAD-175A	1.75	3.00	2.00	1.00	1/4"-20	0.266 "H"	2.31	0.250	1.00	**$12.49**
2.00	DXE-SAD-200A	2.00	3.43	2.31	1.12	5/16"-18	0.332 "Q"	2.62	0.375	1.00	**$15.29**
2.00	DXE-SAD-200B	2.00	4.00	2.37	1.50	3/8"-16	0.397 "X"	2.62	0.375	1.00	**$16.79**
2.50	DXE-SAD-250A	2.50	4.18	2.81	1.25	5/16"-18	0.332 "Q"	3.13	0.375	1.13	**$17.49**
2.50	DXE-SAD-250B	2.50	4.75	2.87	1.75	3/8"-16	0.397 "X"	3.13	0.375	1.13	**$25.49**
3.00	DXE-SAD-300A	3.00	4.68	3.31	1.25	5/16"-18	0.332 "Q"	3.62	0.375	1.25	**$16.99**
3.00	DXE-SAD-300B	3.00	5.25	3.37	1.75	3/8"-16	0.397 "X"	3.62	0.375	1.25	**$17.99**
4.00	DXE-SAD-400A	4.05	5.56	4.43	1.50	3/8"-18	0.397 "X"	4.80	0.438	1.50	**$29.99**



Saddle clamps must be used on a flat surface or customer supplied backing plate. Personal injury and property damage can occur without proper installation. Always use a lubricant such as Never-Seez® or Anti-Seize to prevent the stainless steel hardware from seizing.

DX Engineering Clamps Have Hundreds of Uses!

DX Engineering U-Bolt, V-Bolt, and Band Clamps are very versatile. For example, we've seen the ECLS Studded Band Clamps used to fasten merchandise display signs to upright tubing. Have you used DX Engineering clamps for other, non-antenna projects?

We'd love to know about it—drop us a note and send pictures if you have them!

Suggested Hole Size: 0.266" is letter "H" drill bit, 0.332" is letter "Q" drill bit, and 0.397" is letter "X" drill bit. All U-Bolts are formed from premium 18-8 stainless steel. All Saddles are cast 535 aluminum. All Saddle Clamp Sets are supplied with 18-8 stainless steel nuts and lock washers. Dimensions shown are in inches. Note: These are NOT Automotive Muffler Clamps.

DX Engineering V-Bolt Saddle Clamps

Our V-Bolt Saddle Clamps are sized to fit ranges of tubing. The V-bolts are long enough to attach tubing or components to thick plates and are highly corrosion-resistant.

The V-Bolt Saddle Clamps are intended for use with a backing plate or mounting plate to retain the bolt spacing. The saddles' rippled surface will clamp tubing securely to a flat surface.

Features

- 18-8 stainless steel V-bolts with nuts, flat washers and lock washers
- Cast aluminum saddles with rippled surface
- Available in a number of size ranges



Tubing Recommendations

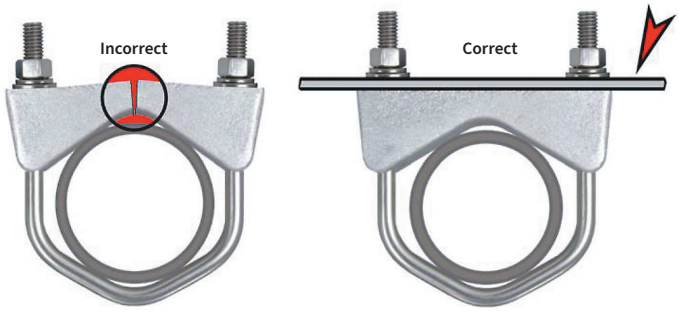
DXE-CAVS-1P: fits 1/2" to 1 3/4" OD tubing, 1/4"-20 bolt

DXE-CAVS-11P: fits 1/2" to 1 3/4" OD tubing, 5/16"-18 bolt

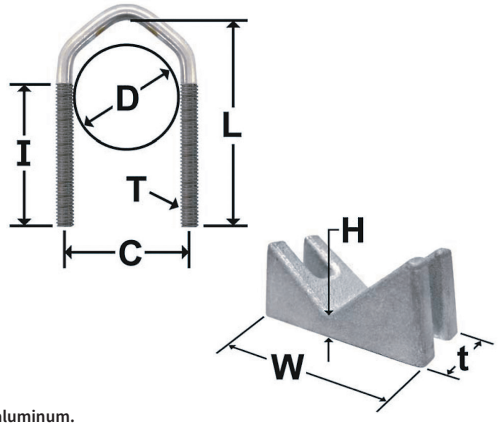
DXE-CAVS-2P: fits 1" to 2" OD tubing, 5/16"-18 bolt

DXE-CAVS-3P: fits 2" to 3" OD tubing, 3/8"-16 bolt

The clamps are sold only as a set with aluminum saddle, stainless steel V-bolts, nuts, flat washers and lock washers. The use of a lubricant and sealant, such as Jet Lube SS-30 (JTL-2555), must be used to achieve proper torque and prevent galling. For high torque load applications where the tubing is subjected to twisting motion, we recommend using our U-Bolt Saddle Clamps.



Nominal Size	DXE Part Number	D	L	C	I	T	Hole Size	W	H	t	Price Each
0.50 to 1.75	DXE-CAVS-1P	1.75	3.438	1.968	2.313	1/4"-20	0.266 "H"	2.313	0.250	1	**$15.59**
0.50 to 1.75	DXE-CAVS-11P	1.75	3.438	2.063	2.313	5/16"-18	0.332 "Q"	2.313	0.250	1	**$16.49**
1 to 2	DXE-CAVS-2P	2.00	3.438	2.313	2.000	5/16"-18	0.332 "Q"	2.835	0.375	1	**$16.99**
2 to 3	DXE-CAVS-3P	3.13	4.610	3.500	1.750	3/8"-16	0.397 "X"	4.250	0.500	2	**$23.49**



All dimensions are in inches. Note: DXE-CAVS-1/11/2P saddle material is cast 535 aluminum, DXE-CAVS-3P saddle material is cast 319 aluminum.
Suggested Hole Size: 0.266" is letter "H" drill bit, 0.332" is letter "Q" drill bit, and 0.397" is letter "X" drill bit. Note: These are NOT Automotive Muffler Clamps.

Saddle Clamp Reinforcement Plates

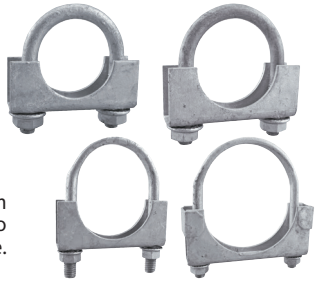


We sell these stainless steel reinforcement plates separately because Hams and professionals have found so many interesting uses for them. From panel repair and shimming to drill guides and chassis covers, we're amazed at the new applications you've discovered for our backing plates.

Of course, they're also perfect replacements for lost or damaged Super Duty and Heavy-Duty Saddle Clamp Reinforcement Plates. Check the nearby clamps chart for the dimensions that match these reinforcement plates.

Part Number	Matching Saddle Clamp Part Number	For Saddle Clamp Size	Price
Super Duty Saddle Clamp Reinforcement Plates			
DXE-SDSBP-300	For Saddle Clamp DXE-SDS-300P	3.00"	**$19.99**
DXE-SDSBP-250	For Saddle Clamp DXE-SDS-250P	2.50"	**$19.99**
DXE-SDSBP-200	For Saddle Clamp DXE-SDS-200P	2.00"	**$18.99**
Heavy-Duty Saddle Clamp Reinforcement Plates			
DXE-HDSBP-200A	For Saddle Clamp DXE-HDS-200AP	2.000"	**$9.99**
DXE-HDSBP-175A	For Saddle Clamp DXE-HDS-175AP	1.750"	**$9.99**
DXE-HDSBP-150A	For Saddle Clamp DXE-HDS-150AP	1.500"	**$9.99**
DXE-HDSBP-125A	For Saddle Clamp DXE-HDS-125AP	1.250"	**$9.99**
DXE-HDSBP-100A	For Saddle Clamp DXE-HDS-100AP	1.000"	**$9.99**
DXE-HDSBP-075A	For Saddle Clamp DXE-HDS-075AP	0.750"	**$6.99**

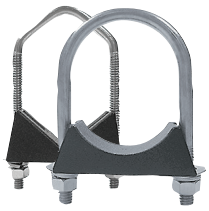
Galvanized Economy Saddle Clamps



Though designed for antenna building, these budget-friendly Cycle 24 clamps can be the perfect solution for any mounting, installation or bracketing project. The clamps are made to withstand decades of indoor and outdoor use. Each clamp includes nuts, U-bolt and saddle.

Part Number	For Tubing Size	Thread Pitch	Thread Length	Price
CYT-CL125SG	1.250"	5/16"-18	1.000"	**$8.49**
CYT-CL150SG	1.500"	5/16"-18	1.000"	**$8.99**
CYT-CL175SG	1.750"	5/16"-18	1.000"	**$9.49**
CYT-CL2000516SG	2.000"	5/16"-18	1.000"	**$10.49**
CYT-CL2125SG	2.125"	5/16"-18	1.500"	**$10.99**
CYT-CL2250SG	2.250"	3/8"-16	1.500"	**$11.49**
CYT-CL2500SG	2.500"	3/8"-16	1.500"	**$11.99**
CYT-CL3000SG	3.000"	3/8"-16	1.500"	**$12.49**
CYT-CL3500SG	3.500"	3/8"-16	1.500"	**$12.99**

Saddle Clamps with Powdercoated Saddles



- Stainless steel flat washers, lock washers, nuts and bolts
- Black powdercoated saddle finish

U-Bolt Style

U-Bolt Part Number	Nominal Size	Thread Bolt Size	Price Each
DXE-PSAD-050A	0.50"	1/4"-20	**$34.99**
DXE-PSAD-075A	0.75"	1/4"-20	**$39.99**
DXE-PSAD-100A	1.00"	1/4"-20	**$39.99**
DXE-PSAD-125A	1.25"	1/4"-20	**$39.99**
DXE-PSAD-150A	1.50"	1/4"-20	**$42.99**
DXE-PSAD-175A	1.75"	1/4"-20	**$43.99**
DXE-PSAD-200A	2.00"	5/16"-18	**$44.99**
DXE-PSAD-250A	2.50"	5/16"-18	**$44.99**
DXE-PSAD-300A	3.00"	5/16"-18	**$33.74**



DXE-PSAD-200A

V-Bolt Style

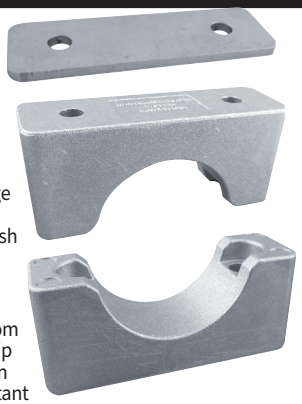
V-Bolt Part Number	Nominal Size	Thread Bolt Size	Price Each
DXE-PCAVS-1P	0.50"-1.75"	1/4"-20	**$14.99**
DXE-PCAVS-2P	1.00"-2.00"	5/16"-18	**$18.99**



DXE-PCAVS-2P

In-Stock Parts Typically Ship The Same Day.

Super Duty Saddle Clamps



Super Duty Saddle Clamps are perfect for building large Yagi or LPDA antennas (where maximum strength is critical). These clamps attach to the tubing and establish a secure mounting point for a flat plate or surface.

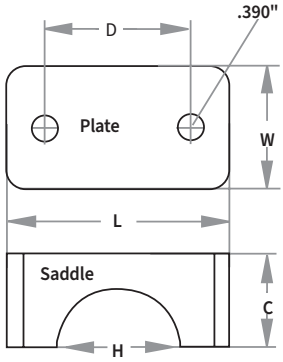
Super Duty Saddle Clamps provide maximum grip on booms, masts and element tubing. Unlike stamped or machined-type clamps, Super Duty clamps are cast from rugged aluminum with a special textured surface to grip the tubing. These new clamps mean you can choose an exact size to create an incredibly secure fit that is resistant to torque, wind and weather.

These clamps consist of two cast aluminum saddles and a stainless steel reinforcement plate. Since there are many uses for these clamps, we don't include hardware. Our armor-coated bolt sets are available separately. Typical Super Duty Clamp mounting applications on a 1/4" plate require a minimum length bolt set.

Super Duty Saddle Clamps fit 2.00", 2.50" and 3.00" OD tubing. A thread lubricant and anti-seize compound, like Jet-Lube SS-30, is highly recommended during installation.



Heavy-Duty Saddle Clamps

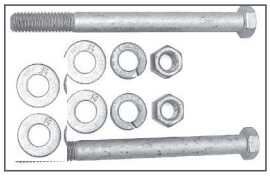


If a design calls for typical saddle clamps but you want something with more strength, DX Engineering now offers a range of Heavy-Duty Saddle Clamps. They're similar to the Super Duty Saddle Clamps, only they're available for smaller diameter tubing and have the same footprint of a standard saddle clamp. These new Heavy-Duty Saddle Clamps fit 0.75", 1.00", 1.25", 1.50", 1.75" and 2.00" OD tubing. Find each clamp's matching Bolt and Nut set in the table below.

Part Number	Nominal OD	L	W	D	H	C	Price
Super Duty Saddle Clamps							
DXE-SDS-300P	3.000	4.650	2.500	3.400	3.000	2.060	**$61.99**
DXE-SDS-250P	2.500	4.150	2.250	2.900	2.500	1.820	**$53.99**
DXE-SDS-200P	2.000	3.640	2.000	2.400	2.000	1.570	**$47.99**
Heavy-Duty Saddle Clamps							
DXE-HDS-200AP	2.000	3.648	1.000	2.375	2.000	1.565	**$23.99**
DXE-HDS-175AP	1.750	3.148	1.000	2.000	1.750	1.315	**$22.99**
DXE-HDS-150AP	1.500	2.898	1.000	1.750	1.500	1.190	**$21.99**
DXE-HDS-125AP	1.250	2.398	1.000	1.500	1.250	1.065	**$19.99**
DXE-HDS-100AP	1.000	2.148	1.000	1.250	1.000	0.815	**$18.99**
DXE-HDS-075AP	0.750	1.898	0.750	1.000	0.750	0.690	**$10.49**

Saddle Clamp Dimensions in Inches

Bolt and Nuts Sets



These stainless steel bolt sets are specifically tailored to the DX Engineering Super Duty and Heavy-Duty Saddle Clamps. The sets include (2) 8-18 hex head bolts, (2) split washers, (4) flat washers and (2) nuts.

Part Number	Thread Pitch	Length	Thread Length	Price
Stainless Bolt Sets				
DXE-SDSBOLT-6-5S	3/8"-16	6.500	0.750 to 1.000	**$9.99**
DXE-SDSBOLT-6S	3/8"-16	6.000	0.750 to 1.000	**$9.49**
DXE-SDSBOLT-5-5S	3/8"-16	5.500	0.750 to 1.000	**$9.49**
DXE-SDSBOLT-5S	3/8"-16	5.000	0.750 to 1.000	**$9.49**
DXE-SDSBOLT-4-5S	3/8"-16	4.500	0.750 to 1.000	**$9.49**
DXE-HDSBOLT4-5S	3/8"-16	4.500	0.750 to 1.000	**$9.99**
DXE-HDSBOLT3-75S	1/4"-20	3.750	0.750 to 1.000	**$9.49**
DXE-HDSBOLT3-5S	1/4"-20	3.500	0.750 to 1.000	**$9.49**
DXE-HDSBOLT3-25S	1/4"-20	3.250	0.750 to 1.000	**$8.99**
DXE-HDSBOLT2-75S	1/4"-20	2.750	0.750 to 1.000	**$7.99**
DXE-HDSBOLT2-5S	1/4"-20	2.500	0.750 to 1.000	**$4.49**

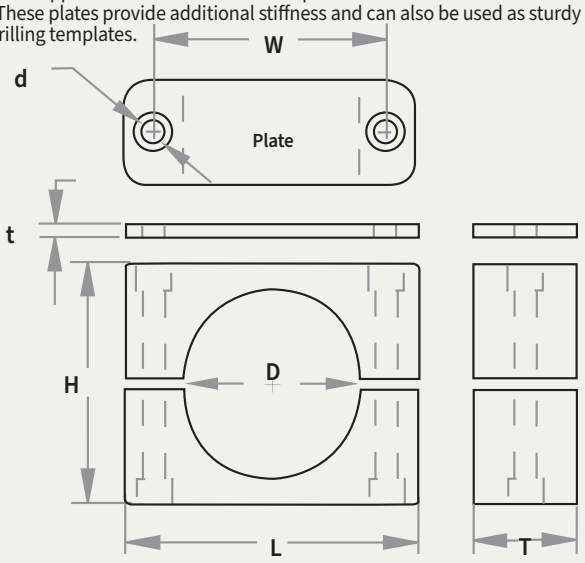
Bolt Set Dimensions in Inches

⚠ **WARNING:** For Proposition 65 information, see p. 3

DX Engineering Resin Support Block Clamps

Our Resin Support Block Clamps are ideal for securing mounting brackets or plates to tubing, while also providing electrical insulation. That makes the clamps a good choice for electronic components. The clamps are sturdy and provide a strong, well-insulated mounting that is easy to construct. They are available in many sizes for most any project you might have.

The Resin Support Block is shown with an optional stainless steel reinforcement plate. These plates provide additional stiffness and can also be used as sturdy hole-drilling templates.



Support Block Dimensions in Inches

Block Part Number	Tube OD	D	H	T	L	W	Reinforcement Plate Required	Price Each
DXE-RSB-I02500	1/4	1/4	1.050	1.185	1.350	0.784	DXE-RSB-DP-1	$5.99
DXE-RSB-I03125	5/16	5/16	1.050	1.185	1.350	0.784	DXE-RSB-DP-1	$6.99
DXE-RSB-I03750	3/8	3/8	1.050	1.185	1.350	0.784	DXE-RSB-DP-1	$8.49
DXE-RSB-I05000	1/2	1/2	1.290	1.192	1.595	1.024	DXE-RSB-DP-2	$8.99
DXE-RSB-I06250	5/8	5/8	1.290	1.192	1.595	1.024	DXE-RSB-DP-2	$9.49
DXE-RSB-I03400	3/4	3/4	1.394	1.186	1.910	1.301	DXE-RSB-DP-3	$7.99
DXE-RSB-I10000	1.000	1.000	1.394	1.186	1.910	1.301	DXE-RSB-DP-3	$9.99
DXE-RSB-I11250	1.125	1.125	1.665	1.189	2.258	1.575	DXE-RSB-DP-4	$9.99
DXE-RSB-I12500	1.250	1.250	2.292	1.182	2.760	2.050	DXE-RSB-DP-5	$10.99
DXE-RSB-I11500	1.500	1.500	2.292	1.182	2.760	2.050	DXE-RSB-DP-5	$10.49
DXE-RSB-I13400	1.750	1.750	2.674	1.184	3.394	2.600	DXE-RSB-DP-6	$15.99
DXE-RSB-I20000	2.000	2.000	2.678	1.184	3.394	2.600	DXE-RSB-DP-6	$16.99
DXE-RSB-I22500	2.250	2.250	2.904	1.184	3.394	2.600	DXE-RSB-DP-6	$18.99


DXE-RSB-I11250

Reinforcement Plates Dimensions in Inches

Part Number	d	t	W	Each
DXE-RSB-DP-1	0.275	0.119	0.784	$8.99
DXE-RSB-DP-2	0.275	0.119	1.024	$11.99
DXE-RSB-DP-3	0.275	0.119	1.301	$11.99
DXE-RSB-DP-4	0.275	0.119	1.575	$12.49
DXE-RSB-DP-5	0.275	0.119	2.050	$12.99
DXE-RSB-DP-6	0.275	0.119	2.600	$13.99

Hex Bolt Hardware Sets



Don't compromise your installation integrity with inferior hardware. Designed and tested for Amateur Radio applications, these nut and bolt sets have been precisely made for DX Engineering's own Super Duty Saddle Clamps, Heavy-Duty Saddle Clamps and Resin Support Blocks.

Each "RSBBOLT" set includes a matched pair of nuts and bolts, plus 2 flat washers and 2 split washers. The bolt thread is 1/4"-20 and the bolt hex head is SAE 7/16".

Part Number	Bolt Length	Price
DXE-RSBBOLT1-50	1.5"	$6.49
DXE-RSBBOLT1-75	1.75"	$6.99
DXE-RSBBOLT2-00	2.00"	$6.99
DXE-RSBBOLT2-25	2.25"	$6.99
DXE-RSBBOLT2-50	2.50"	$6.99
DXE-RSBBOLT2-75	2.75"	$6.99
DXE-RSBBOLT3-25	3.25"	$7.49
DXE-RSBBOLT3-50	3.50"	$7.49



Hardware Sets for Resin Support Block Clamps

DX Engineering makes these hardware kits precisely for the Resin Support Block Clamps. The sets include a matched pair of stainless steel nuts and bolts, a pair of split washers, and two pair of small/large flat washers. Select your kit based on bolt length below.

DXE-RSBSBOLT2-50 Resin Support Block Hardware, 2.50" Bolts $8.49

DXE-RSBSBOLT2-75 Resin Support Block Hardware, 2.75" Bolts $7.99

DXE-RSBSBOLT3-00 Resin Support Block Hardware, 3.00" Bolts $7.99

Stainless Steel V-Clamps

DXE-SSVC-1PG



Ideal for mounting accessories to steel pipe. The V-saddle has serrations that bite into the surface, providing a strong, secure hold. The bolts supplied are long enough to attach tubing to thick plates and have anti-corrosive properties for long life. Some clamps are available with a tab and 1/4" hardware for adding grounding wires. Not recommended for aluminum tubing or pipe.

DXE-SSVC-150PG

V-Clamp Part Number	Pipe Size	Ground Lug	Price Each
DXE-SSVC-1P	1/2" to 3/4"	No	$15.49
DXE-SSVC-1PG	1/2" to 3/4"	Yes	$17.99
DXE-SSVC-150P	1" to 1.5"	No	$14.99
DXE-SSVC-150PG	1" to 1.5"	Yes	$16.99
DXE-SSVC-2P	1" to 2"	No	$19.49
DXE-SSVC-3P	2.375" to 3"	No	$23.49

ECLS-Series Band Clamps with Stud



Made from marine grade stainless steel with a 10-24 stud welded to the band. Ideal for mechanical fastening to round or odd-shaped members. Can be used for electrical connections (including grounding) or for mechanical assembly of components, attachment of signs, etc. Threaded hardware included.

Part Number	Size	Price (2)
DXE-ECLS-050	0.500" OD tube	$18.99
DXE-ECLS-062	0.625" OD tube	$18.99
DXE-ECLS-075	0.750" OD tube	$18.99
DXE-ECLS-087	0.875" OD tube	$19.99
DXE-ECLS-100	1.000" OD tube	$19.99
DXE-ECLS-125	1.250" OD tube	$22.99
DXE-ECLS-150	1.500" OD tube	$22.99
DXE-ECLS-175	1.750" OD tube	$23.99
DXE-ECLS-200	2.000" OD tube	$23.99
DXE-ECLS-225	2.250" OD tube	$23.99
DXE-ECLS-250	2.500" OD tube	$23.99
DXE-ECLS-275	2.750" OD tube	$24.99
DXE-ECLS-300	3.000" OD tube	$24.99
DXE-ECLS-325	3.250" OD tube	$24.99

Cushioned P-Clamps

DXE-CPC-375



DX Engineering P-Clamps are ideal for providing strain relief of coaxial cable connections. The rubber insert grips the cable jacket securely without nicking or cutting the jacket, preventing water entry.

DXE-CPC-250 For RG-8X, RG-6, RG-59 Cable, Pack of 10 ..... $17.99

DXE-CPC-375 For RG-213, RG-8, RG-11 Cable, Pack of 10 ..... $16.99

Stainless Steel Element Clamps



Typical elements are built using 0.058 inch wall tubing, which allows successive sizes to slide together with good contact. Use these clamps to hold the telescoping tubing in place. The stainless steel construction makes them ideal for corrosive environments.

Part Number	For Tubing Size (OD)	Per Pack	Price
DXE-ECL-0500-10P	0.375"-0.500"	10	$19.99
DXE-ECL-0625-10P	0.625"	10	$19.99
DXE-ECL-0750-10P	0.750"	10	$19.99
DXE-ECL-0875-10P	0.875"	10	$21.49
DXE-ECL-1000-10P	1.000"	10	$21.99
DXE-ECL-1250-10P	1.125"-1.250"	10	$21.99
DXE-ECL-1500-10P	1.375"-1.500"	10	$21.99
DXE-ECL-1750-10P	1.625"-1.750"	10	$23.99
DXE-ECL-2000-10P	1.875"-2.000"	10	$23.99
DXE-ECL-2250-5P	2.125"-2.250"	5	$11.29
DXE-ECL-2500-5P	2.375"-2.500"	5	$11.29
DXE-ECL-2750-5P	2.625"-2.750"	5	$7.49
DXE-ECL-3000-5P	2.875"-3.000"	5	$7.49
DXE-ECL-3250-5P	3.25" (max.)	5	$11.29
Multi-Packs with Pairs of Assorted Sizes			
DXE-ECL-MP1	0.500"-1.500"	14	$17.29
DXE-ECL-MP2	1.000"-2.250"	12	$19.99
DXE-ECL-MP3	2.125"-3.250"	12	$16.79

⚠ **WARNING:** For Proposition 65 information, see p. 3



DX ENGINEERING

NCC-2 Receive Antenna Phasing System

The NCC-2 allows you to phase one receive antenna with a transmit antenna or two receive antennas with each other. That means you can use the NCC-2's phasing and balance controls to electronically "rotate" an antenna pattern, steering the pattern null(s) to reduce interference, so you'll enjoy improved reception and signal-to-noise ratio. Even if you have space constraints on your property, you can enjoy the benefits of antenna phasing and noise-nulling.

The NCC-2 features superior phasing and balancing capabilities over other receiving devices. A built-in Receive-Transmit Interface relay system allows direct transceiver connection.

The NCC-2 has four advantages over typical phased antenna systems. First, the array can be electronically steered or directed using physically stationary antennas. Second, the user adjusts the direction and wave angle of either a null or peak. Third, the response can change from a signal null to a perfect signal peak with the flip of a single switch. Lastly, front panel adjustments compensate for less-than-ideal antenna installations, making a directional array possible in most situations.

Another important feature of the NCC-2 Receive Antenna Phasing System is expandability. It includes internal slots for installing optional DX Engineering Plug-in Modules, like the RPA Receive Preamplifier, Receiver Guard 5000HD, 75 to 50 ohm Impedance Transformer, and Transmit-Receive Interrupter.

NCC-2 features and quick specs:

- Nulls out noise from power lines, lamp dimmers, motors, and other electronics
- Phasing voltage controlled, allowing for precise resetting of phase
- Built-in, 2-channel voltage controlled attenuator system
- Low noise, high dynamic range amplifiers
- Separate control for reversing phase
- Keying PTT line out for amplifiers and accessories
- Separate channel receive antenna feedline bias tee settings
- Rear panel SO-239, F and BNC connectors
- Frequency range: 300 kHz to 30 MHz
- Third order output intercept (TOI): +32 dBm each input/+38 dBm combined
- Gain flatness: +/- 1 dB over complete phase rotation gain
- Attenuation adjustable from 0 dB to -40 dB
- Available phase rotation: >360 degrees between 300 kHz and 30 MHz
- Input power 13.8 nominal @ 2A maximum
- Antenna feedline power: 13.8 at @ 300mA maximum

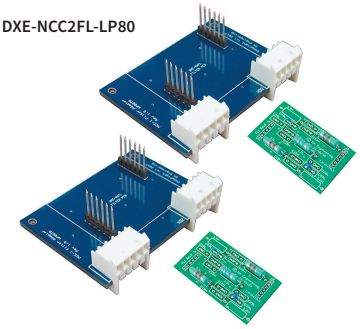
DXE-NCC-2 Receive Antenna Variable Phasing System **$955.99**
DXE-KWD-RTR Special Kenwood/NCC Keying Cable **$52.99**

NCC-2 and Filter Combos

Get more out of your NCC-2 with band-specific directional noise and signal nulling performance. By reducing or excluding frequency specific signals that normally cause interference, these filters help lower the noise floor of the desired pass-band to dramatically improve reception. Filters are available for the 160-10 meter bands, and come in low pass, band pass and high pass frequency ranges. For full details, **Enter "DX Filter Sets" at DXEngineering.com. Combos come with two plug-in adapter boards and two filters.**

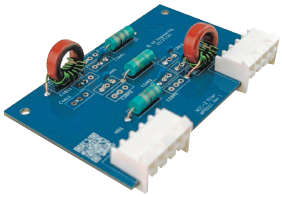
Part Number	Frequency Range	Coverage	Price
DXE-NCC2FL-BP160	Band Pass	160M	**$162.96**
DXE-NCC2FL-BP40	Band Pass	40M	**$238.96**
DXE-NCC2FL-BP80	Band Pass	80M	**$162.96**
DXE-NCC2FL-HP160	High Pass	160M	**$142.96**
DXE-NCC2FL-HP40	High Pass	40M	**$106.96**
DXE-NCC2FL-HP80	High Pass	80M	**$130.96**
DXE-NCC2FL-LP160	Low Pass	160M	**$109.96**
DXE-NCC2FL-LP40	Low Pass	40M	**$109.96**
DXE-NCC2FL-LP80	Low Pass	80M	**$130.96**

DXE-NCC2FL-LP80



Receive Filters for NCC-2

Install these high-performance, monoband plug-in receive filters into your NCC-2, RTR-2, RPA-2, or DMC-2 devices for improved signal-to-noise and better receiving results. Individual filters are available for 160, 80, 40, 20, 15, and 10 meters as single band pass, high-pass, or low-pass versions. Use one low pass and one high pass to create a multiband pass. **Pricing ranges from $49.99 to $54.99. Enter "DXE-R Filter" at DXEngineering.com for more details.**

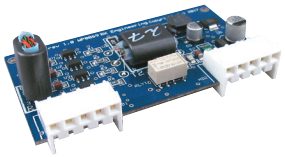


We stock many more items than we can show. See them all at DXEngineering.com!

Clifton Laboratories Products by DX Engineering

Here is welcome news for radio experimenters and electronics enthusiasts. With the acquisition of Clifton Laboratories in 2016, DX Engineering is offering updated versions of a few select devices that were created by the talented engineer, Jack Smith, K8ZOA (SK).

CLIFTON LABORATORIES DX



DXE-Z10046B-PM



DXE-DMC-2

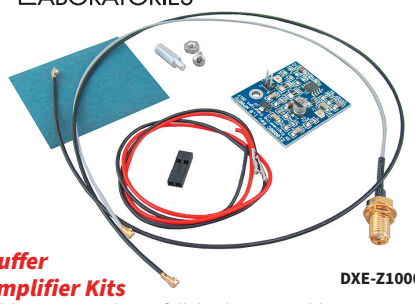
Preamplifier and Filter Plug-in Modules

DX Engineering has adapted the Clifton Laboratories Z10046A High-Output Preamplifier (23 dB gain). Virtually identical to its predecessor, this super-versatile preamp can plug directly into the DXE-NCC-2 and DXE-RTR-2 units. Use it as a separate in-line receive-only preamplifier by installing this module into the DXE-DMC-2 Dual Module Chassis.

The DXE-Z10020-PM Receive AM Reject Filter Plug-in Module is also for use with the DXE-NCC-2 and DXE-RTR-2 or as a standalone filter installed into the DXE-DMC-2 Dual Module Chassis. It can drastically reduce RF signals in the 530 to 1700 kHz MW range up to 80 dB while passing frequencies below and above this range with minimal attenuation.

DXE-Z10046B-PM Clifton Labs Z10046B 23 dB Preamplifier Plug-In Module ... **$109.99**
DXE-DMC-2 Dual Module Chassis for DX Engineering Plug-In Modules **$195.99**
DXE-Z10020-PM Clifton Labs AM Band Filter Module **$163.99**

CLIFTON LABORATORIES DX



DXE-Z10000U-KIT

Buffer Amplifier Kits

Add a spectrum/waterfall display to an older receiver or transceiver. This high input/low output impedance Buffer Amplifier can tap the IF signal from inside your radio and feed it to your SDR receiver with panadapter display. Two complete and tested Clifton Labs Buffer Amplifier Kits are offered, Universal and K2. The updated DX Engineering Z10000C PC Boards feature all the benefits of the reliable original Z10000B. Our kits include required coaxial cables, special connectors and hardware for easier installation. Instructional web links are found at DXEngineering.com, keyword "Clifton Labs."

DXE-Z10000U-KIT Clifton Labs Z10000C Universal Buffer Amplifier Kit... **$51.99**
DXE-Z10000K2-KIT Clifton Labs Z10000C Elecraft K2 Buffer Amplifier Kit **$61.99**

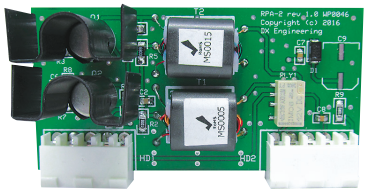
⚠ **WARNING:** For Proposition 65 information, see p. 3

DX ENGINEERING

RPA-2 Modular Receive Preamplifiers



DXE-RPA-2


DXE-RPA-2-PM

We've completely redesigned some of our most popular products to make them easier to use. The latest version of our RPA series preamplifier boasts the same industry leading performance as the previous version. The key improvement here is its internal expansion slot that allows you to add one of our new plug-in modules, like the Receiver Guard or the 75 to 50 Ω impedance transformer. This new unit also features BNC and F connectors to ensure a reliable, 50 Ω connection.

These low noise preamps are optimized for the 300 kHz to 35 MHz range, letting you hear the weakest signals without artificially raising the noise. The use of robust components allow these preamplifiers to withstand high signal levels while providing superior dynamic range and third-order intercept performance that equals or exceeds most transceiver front-ends. RPA-2 Modular Receive Preamplifiers include our exclusive, advanced push-pull design that eliminates harmonic distortion. Their high quiescent current increases their ability to handle strong signals without distortion or overload.

To ensure you get the highest performance and reliability out of your RPA-2, we highly recommend using a well filterered, regulated 13.8VDC power supply.

RPA-2 Series Specifications

- Gain: 16 dB, +/- 1.5 dB over entire frequency range
- Output Third Order Intercept: 43 dBm
- Noise Figure: 3.5 dB
- One dB Compression Point: +26 dBm (400 mW output)
- Dynamic Range, IM3: 110 dB or greater (500 kHz BW)

The RPA-2-PM is a Plug-In Module version of the same unit, allowing it to be installed in one of the expansion slots of our NCC-2 and RTR-2 units.

DXE-RPA-2	Modular Receiver Preamplifier	**$269.99**
DXE-RPA-2-PM	Receive Preamplifier Plug-In Module	**$79.99**

DX ENGINEERING

75 to 50 Ω Impedance Plug-In Module

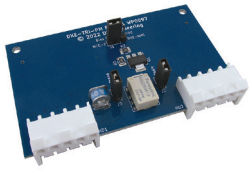


The DX Engineering RPA-2, RTR-2 and NCC-2 are inherently 50 Ω circuits. This handy PCB card plugs into your RPA-2, RTR-2 or NCC-2 and allows them to accept a 75 Ω receive antenna feedline.

DXE-IT-PM	75 to 50 Ω Impedance Plug-In Module	**$35.99**

DX ENGINEERING

Transmit Receive Interrupter Plug-In Module



The DXE-TRI-PM provides protection from station transmit energy picked up by a receive antenna connected to the DXE-NCC-2 Channel B Receive Antenna Input active front end. This optional PCB relay switch device is typically installed in the NCC-2's top Option Slot of the Channel B rear panel board. When the transceiver keys the NCC-2's RADIO PTT port, the DXE-TRI-PM can open or ground the receive antenna input and board output, as selected by jumpers. The device functions independently and does not affect or depend on the settings of the NCC-2's Bias-Tee Enable circuit that places DC on the receive antenna feedline for active antennas. The module also features a gas discharge tube to protect the front end of the NCC-2 while in receive mode. Additionally, the DXE-TRI-PM installed in the DXE-DMC-2 Dual Module Chassis can interrupt or ground any receive antenna feedline or a receiver input. Note: Adding a second DXE-TRI-PM to the top slot of the NCC-2 Channel A rear panel is recommended for further protection. **Enter "TRI-PM" at DXEngineering.com for more details.**

DXE-TRI-PM	Transmit Receive Interrupter Module	**$44.99**

Dual Module Chassis



DX Engineering has made it simpler and more convenient to protect your receiver and enhance its performance. Each multi-purpose DMC-2 receive device box serves as the connector and power interface box for two DX Engineering plug-in modules and receive filters. It's perfect for creating a wide pass filter, protecting a receiver with a filter and a limiter, or adding a preamplifier that has filtering or limiter protection. A DXE-RXFL-1 Receive Filter Adapter Board is required to install optional RXFL receive filters. The unit can accommodate one or two filters to create the filter type and input signal band pass frequency coverage and limitations that serve your needs. For full details and a list of compatible modules and RXFL receive filters, **enter "DX Dual Module" at DXEngineering.com.**

DXE-DMC-2	Dual Module Chassis	**$195.99**

DX ENGINEERING

RTR-2 Modular Receive-Transmit Interface



The RTR-2 is the safest solution for adding a separate receive antenna to a transceiver that doesn't have a dedicated receive antenna port. This fast receive-transmit relay switches between antennas without worry. It has a unique failsafe keying input plus an amplifier key out. Sharing main antenna with SDR receiver/display using optional external splitter is easy, or use it as a T/R switch for boat anchors. Other RTR-2 features include Bias-Tee for active vertical or magnetic loop antennas plus this unit operates on 13.8VDC; three internal slots for new plug-ins; impedance transformer (for 75 Ω feedlines), Receiver Guard and Receive Preamplifier modules, front panel switch for preamp in/out, 50 Ω, BNCs and SO-239s, 200W, 1.8 to 54 MHz.

Owners of Kenwood radios have previously been unable to use either the RTR-1 or RTR-2 because of interface problems. We've remedied that issue with our KWD-RTR keying cable. Check your Kenwood's compatibility at DXEngineering.com.

DXE-RTR-2	Modular Receive-Transmit Interface	**$375.99**
DXE-KWD-RTR	Special Kenwood/RTR Keying Cable	**$52.99**
DXE-RG5000HD-PM	Receiver Guard 5000 HD Plug-In Module	**$84.99**
DXE-IT-PM	75 to 50 Ohm Impedance Transformer Plug-In Module	**$35.99**
DXE-RPA-2-PM	Receive Preamplifier Plug-In Module	**$79.99**

DX ENGINEERING

Receiver Guard RG5000HD



Protect your sensitive receiver front-end against high levels of RF from nearby transmit signals. A DX Engineering Receiver Guard is the best limiter device to choose if your receive antenna input could be subjected to high levels of RF. They are a must for contesting stations and are useful for all stations, for Field Day, SWLs and when a neighbor or passing mobile generates potentially damaging RF peaks.

Extensively tested and proven in real-world stations, the RG5000HD works for all radios and offers the ultimate performance required by the upper tier of transceivers tested to have the best narrow-spaced third-order dynamic range or published RMDR (Reciprocal Mixing Dynamic Range). These transceivers include Elecraft K3 series, FlexRadio 6700, 5000A and 3000, Icom IC-7851, Kenwood TS-990S and 590S(G), TenTec Orion series, Yaesu FTDX-5000 series, and other radios with similar performance.

At the heart of the Receiver Guard is a highly effective electronic RF limiter covering 500 kHz to 150 MHz with an insertion loss under 0.15 dB at 50 MHz and under 0.3 dB to 150 MHz. Its multi-stage design includes a gas discharge tube for maximum pulse energy protection. The RG5000HD is a passive electronic limiter, not a filter, so competitive contesting stations still use separate band filters. The Receiver Guard's limiters can reject 10 watts of catastrophic receive antenna feedline RF while passing a signal of about 87 dB over S-9, which is only 25 mw! That level is well under the point of front-end damage.

When there are high levels of RF on your receive antennas, DX Engineering's RG5000HD generates far less harmonic noise than other limiters on the market, which allows your station to continue to operate safely and competitively. At normal HF signal levels the Receiver Guard operates continuously with no effect on the performance of your station while providing the best possible protection for your radio.

The RG5000HD-PM variant is a Plug-In Module version of the Receiver Guard HD, allowing it to be installed in one of the expansion slots of our NCC-2 and RTR-2 units.

DXE-RG5000HD	Receiver Guard RG5000HD	**$119.99**
DXE-RG5000HD-PM	Receiver Guard RG5000HD Plug-In Module	**$84.99**

DX ENGINEERING

2-Port Splitter-Combiners



Before you use a standard parallel connection to combine antenna systems, check out the advantages of DX Engineering's 2-Port Splitter-Combiners. Available for 50- or 75-ohm systems, these units can be used to split one RF signal to feed two receivers or the receiver inputs of one transceiver and a separate receiver. They can also be used to combine two receiving antennas in phase, such as Beverage antennas, to form a phased receive array. The splitter-combiners match the entire system to the feedline impedance, have extremely high bandwidth, limit signal loss to 3 dB per port, and provide high isolation between ports, preventing either antenna or device from interfering with the other during normal operation.

DXE-SC-50	50 Ω, BNC female connectors	**$100.99**
DXE-SC-75	75 Ω, F female connectors	**$107.99**

DXEngineering.com is loaded with detailed photos, specs, videos, and more!

⚠ **WARNING:** For Proposition 65 information, see p. 3

DX ENGINEERING

Receive Short Element Active Vertical (RSEAV) Antenna

DXE-RSEAV-1



Take advantage of excellent low-noise radio frequency reception from VLA to HF (40 kHz-30 MHz, including 2200M and 630M) with DX Engineering's upgraded, sleek, durable, and stealthy Receive Short Element Active Vertical Antenna, featuring the completely new AVA-3 Active Matching Unit. The AVA-3's state-of-the-art broadband operational amplifier design works as a high-impedance buffer for the connection between a short element and RG6U 75 Ω coax. Benefits include High Third Order Intercept performance of +39 dBm for superior strong-signal handling equal to top transceivers, and consistent unit-to-unit gain and phase for greatly improved array performance. The RSEAV-1 also comes with a non-conductive, predrilled mounting plate for easy installation; 8', 6" aluminum tubing three-piece whip; element connection wires with ring and fork terminals; and stainless clamps and hardware. The DXE-RSEAV-1FVI package comes with feedline voltage injector bias tee and 120VAC to 12VDC power source. Antennas also available in sets of 2, 4, and 8. **Enter "RSEAV-1" at DXEngineering.com for more details.**

DXE-RSEAV-1	RSEAV Antenna	**$249.99**
DXE-RSEAV-1FVI	RSEAV Antenna with Bias Tee	**$349.98**
DXE-RSE-R	RSEAV Antenna Tubing and Mounting Plate Kit	**$104.99**
DXE-RSE-A	RSEAV Replacement Tubing Element Kit	**$69.99**
DXE-RSEAV-2	RSEAV Antennas, Set of 2	**$499.98**
DXE-RSEAV-4	RSEAV Antennas, Set of 4	**$999.96**
DXE-RSEAV-8	RSEAV Antennas, Set of 8	**$1,999.92**

AVA-3 Active Matching Unit



The heart of DX Engineering's RSEAV antennas, the AVA-3 features internal jumper selection of relative gain settings, with the factory default of -6dB, as well as 0dB and +6dB settings, to match the ambient noise conditions for the antenna location and to adjust for the size of the antenna element being used. The unit can be used for VLF through HF reception with short metal or wire elements that measure from less than 6' up to 24'. It can also be employed by using the Direct DC F connector for installations where the use of the AVA-3 internal bias tee is undesirable.

DXE-AVA-3	Active Matching Unit	**$139.99**

Receive 8 Circle V3 Complete Array System



DXE-RCA8C-SYS-2P

Version 3 of DX Engineering's Receive 8 Circle Array System is designed to be used with eight identical, symmetrically-spaced vertical elements—active or passive—to provide switching for an eight-direction receiving antenna system. (Passive elements will generally provide you with a monoband receiving system).

The Receive 8 Circle system uses time-delay phasing (rather than conventional narrow-band, frequency dependent phasing) to provide eight 45 degree-spaced directional patterns. The time-delay phasing is directivity-optimized to produce wider and deeper rear nulls and a narrower main lobe. The result is greatly reduced noise and undesirable signals for a superior front-to-rear ratio (F/R). Better control of phase and currents provides a cleaner pattern than found on vertical antenna transmit arrays.

The system also offers greater reliability in receiving applications. The RC8 controller uses sealed relays—sized for receiving applications—with oxidation-resistant silver contacts. Most transmitting circle array switches use large open-frame relays with exposed brass contacts, which can lead to contamination, oxidation and poor conductivity.

The DXE-R8C-SYS-V3 Receive 8 Circle Complete Array System contains:

- DXE-RCA8C-1 Receive 8 Circle Array Controller
- Eight DXE-RSEAV-1 Receive Short Element Active Vertical Antennas with updated DXE-AVA-3 matching units and aluminum elements
- DXE-CC-8AMOD special 8-position Receive 8 Circle Deluxe Control Console
- Stainless Steel V-clamps and assembly hardware
- Two DXE-RG6UFQ 1,000' rolls of RG6U 75 Ω flooded quad shield coaxial cable
- DXE-CPT-659 Coax Cable Prep Tool
- DXE-SNS-CT1 RG6 Type-F Compression Connector Tool
- DXE-EX6XL-25 25 Type-F Universal Compression Connectors

DXE-R8C-SYS-V3	Receive 8 Circle Complete Array System	**$3,447.34**

The DXE-RCA8C-SYS-2P Controller and Switch Package includes:

- DXE-RCA8C-1 Receive 8 Circle Array Controller
- DXE-CC-8AMOD Receive 8 Circle Deluxe Control Console
- DXE-SSVC-2P Stainless Steel V-Clamp for mounting the RCA8C-1 to a 1-2" OD post

DXE-RCA8C-SYS-2P	Receive 8 Circle Controller and Switch Package	**$815.98**

Control Cable

COM-CW4	Cable, 4-Conductor	per foot **$0.85**
COM-CW4-1000	Cable, 4-Conductor, 1,000' Spool	**$579.99**

Complete Electronically Steered Receiving System

- More than 5 S-units of front-to-back on optimized systems
- Works best on 160M, 80M and 40M
- Like having a rotatable Beverage antenna
- Fits in YOUR yard!
- Easily installed

Want to know what people are saying about this system?
Visit: www.eham.net/reviews/detail/5336

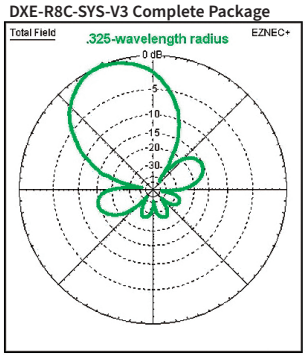
DX ENGINEERING

DXE-RFS-SYS-2P





DXE-R8C-SYS-V3 Complete Package



Receive Four-Square V3 Array System

Version 3 of DX Engineering's Receive Four-Square Array System delivers dramatically improved reception of weak, distant MW and SW signals with excellent rejection of extraneous signals and noise. This four-direction switchable phased array covers multiple HF amateur bands, such as 160, 80 and 40 meters, by using time delay phasing of four physically short active receive vertical elements. The resulting directional receiving pattern has deep back and side nulls that are superior to Beverage antennas and other receive arrays, making the system a great choice for HF amateur operating, SWL, or AM DXing.

- Excellent directivity over a very wide frequency range, and in a small space, with four DXE-RSEAV-1 Receive Short Element Active Vertical (RSEAV) Antennas, featuring updated DXE-AVA-3 Active Matching Units
- Switchable in four 90 degree spaced directions
- Reduced susceptibility to high angle signals compared to EWE, Flag, Pennant or K9AY arrays
- Operates from 100 kHz-30 MHz
- Each complete package includes four RSEAV antennas,* with AVA-3 matching units and aluminum elements, RFS-3 four-square array controller, EC-4 control console, 1,000 feet of 75 Ω RG6U flooded cable, connectors, hardware and tools
- Active antennas now ship in 38" packages for low-cost shipping.

DXE-R4S-SYS-V3	Receive Four-Square System Complete Package	**$1,903.39**
DXE-RFS-SYS-2P	Four-Square Controller and Switch Package	**$527.98**

System components also available individually.

DXE-EC-4	Four-Square Switch Console, 4-Position BCD Output	**$171.99**
DXE-CPT-659	Coaxial Cable Stripping Tool	**$36.99**
DXE-SNS-CT1	RG6 Type-F Compression Connector Tool	**$53.99**
DXE-EX6XL-25	25 Type-F Universal Compression Connectors	**$27.99**

Enter "DXE-R4S" at DXEngineering.com for more details.

DX ENGINEERING

Receive Antenna Matching Transformer



Enjoy the best possible receive performance with this useful device. The transformer matches your receive antenna 75 Ω output impedance to the nominal 50 Ω input impedance of most receivers. The transformer may be used in almost any receiving application that requires a 75 Ω Type F connection to a 50 Ω BNC connector. The unit boasts low insertion loss (< 0.3 dB) and excellent frequency coverage (100 kHz-30 MHz). This feedline transformer is for use only on receive antenna systems, does not pass DC, and cannot be connected to a transmitting RF power source.

DXE-RX75-50-XFMR	Receive Antenna Matching Transformer	**$55.99**

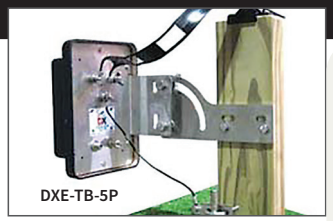
Easy International Ordering. DXEngineering.com has a simple shipping calculator that can give you an exact price total before you check out.

No matter what country you're in, we can get you the parts and gear you need to get on the air. Same-day shipping means you'll get it quickly, too.

We're All Elmers Here! Get Expert Support at: Elmer@DXEngineering.com

⚠ WARNING: For Proposition 65 information, see p. 3





Reversible Beverage System

The DXE-RBSA-1P allows two Beverage antennas receiving in opposing directions to share the same space. With the DXE-RBSA-1P, you can build a 2-wire reversible Beverage antenna system with superior signal-to-noise ratio, most useful at 160, 80 and 40M bands. The W8JI design consists of a Feedpoint System and Reflection Transformer. You can operate and even confirm the F/R ratio of this antenna at any time from the operating position.



This system is immune to strong signal overload and core saturation common in multi-transmitter contesting environments, and is used by winning contest stations and low-band DXers.

The DXE-RBSA-1P has two antenna ports. The standard configuration of the DXE-RBSA-1P has one port terminated (termination included) so both antennas share a common feedline. Applying 10 to 18VDC to the feedline switches between the antenna, and the direction of reception. For simultaneous reception from opposing directions, each of the two feedlines connect to a separate receiver.

While the DXE-RBSA-1P is optimized to use 450 Ω ladder line for the antenna element, the system will work with any 300-600 Ω 2-wire line. 450 Ω ladder line is available from DX Engineering, sold separately. DX Engineering also sells quality 75 Ω coax and F connectors for outdoor installations.

Benefits

- Broad operating range, 0.2 to 30 MHz
- Fully isolated grounds used to prevent common-mode noise and unwanted signals
- 75 Ω design enables the use of high quality, low cost cable with F connectors
- Metal housings used for superior shielding and improved life

DXE-RBSA-1P Reversible Beverage Feed System..... **$309.98**
DXE-TB-5P Tilt Base for DXE-RBSA-1P..... **$24.49**

Bi-Directional Beverage Antennas



Here's an affordable and effective option for improving your low-band DXing capabilities. Available in versions with either one or two connectors, these 0.1-30 MHz bi-directional Beverage antennas from QRO.cz offer fast and easy setup; good low-noise performance; directional effect in two directions; protection against electrostatic charges, over-voltages, and over-currents; IP56-rated housing for moisture protection; a grounded "terminator box" with inputs and outputs clearly labeled for simplified deployment; feedline impedance of 50 or 70 Ω; and SO-239 connectors. Users attach two parallel antenna wires (not included) between the feeder and terminator box via the device's screw terminals. Since the antenna can be set up close to the ground at a height of 1.5'-13', it is ideally suited for use on Field Day and for other portable operations. In the one-connection version (BEV21), the direction of the received signal is switched by 12VDC remote power supply (e.g., by means of the QRO.cz Bias Tee Box, see below) via the coaxial cable from the receiver side to the feeder box. With the two-connector version (BEV22), two individual receivers can be connected (i.e., one receiver per receiving direction). If only one receiver is connected, the free output must be terminated by dummy load.

QRO-BEV21 BEV21 Bi-Directional Beverage, 1 Connector..... **$143.99**
QRO-BEV22 BEV22 Bi-Directional Beverage, 2 Connectors..... **$143.99**

Bias Tee Box

This feed splitter with PL jacks for shortwave and 6M is used to feed DC current into an RF signal to power remote antenna amplifiers or other equipment. It is usually positioned at the receiving end of the coaxial cable to pass DC power from an external source to the coaxial cable leading to the operated equipment. The device consists of a feed inductor that supplies DC current to a terminal on the equipment end, and a blocking capacitor that prevents DC current from passing to the receiver. An LED light provides information on the operating status. In addition, the IP56-rated box features an adjustable attenuator and protection against overvoltage and overcurrent.

QRO-BTBOX Bias Tee Box, 0.1-60 MHz..... **$83.99**

RX Preamplifier Boxes



Based on a W7IUV design, these 0.1-30 MHz RX Preamplifier Boxes with 2N5109 transistor can be used as a high IP preamplifier for RX antennas (Beverage, DHDL, flag, et. al.). The unit's variable ATT allows users to set the gain from 0-18 dB. Further, the right transistor bias can be set by use of the preamplifier's multi-turn potentiometer. Two relays offer bypass switching if there is no power supply voltage. Use the external power supply connected to the box or the Bias Tee Box for power over the coax. Preamplifier boxes come with or without Bias Tee Box. Other features include front-end diode protection, high-quality connectors, and IP56-rated enclosure.

QRO-RXA-BOX RX Preamplifier Box, 2N5109 SMD..... **$123.99**
QRO-RXABOX-BT RX Preamplifier Box, 2N5109 SMD w/ Bias Tee Box **$299.99**

High CMI Receive Feedline Chokes



The result of ongoing research by the DX Engineering team, these receive feedline chokes achieve exceptionally high isolation between the input and output connector shields to effectively block common-mode RF noise and unwanted signals that collect on 50 and 75 Ω receive antenna feedlines. They cover the RF frequency range 100 kHz through 30 MHz and exhibit extremely high common-mode impedance (CMI) typically over 7,500 Ω across the 160, 80, and 40 meter bands. Suitable for use on bias-tee fed active receive antennas and array feedlines, these chokes feature DC pass capability up to 700mA at 13.8VDC, with extremely low SWR and negligible insertion loss. Chokes are available for 75 Ω Type-F female (DXE-RXFC-75) and 50 Ω BNC female (DXE-RXFC-50). Non-UHF connector types are used to prevent accidental connections to transmitting equipment. Built into a permanently sealed plastic box to protect components, these chokes have non-directional Input and Output connectors on opposite sides. The top and bottom each have 7/16" flanges with 3/16" holes for #10 mounting hardware (not included). Important: Receive feedline chokes cannot be used on the output of a transceiver. Transmitted RF energy will cause permanent damage. **Enter "RXFC" at DXEngineering.com for more details.**

DXE-RXFC-75 High CMI Receive 75 Ω Feedline Choke, Type-F Female..... **$59.99**
DXE-RXFC-50 High CMI Receive 50 Ω Feedline Choke, BNC Female..... **$64.95**

Time Variable Sequence Unit



Protect your active antennas, transmit/receive relays and other equipment with this sequence unit. You get full control of the timing between your radio and your amplifier. This microprocessor-controlled unit provides 0-30 milliseconds of delay, in 2 millisecond increments to as many as 5 outputs that are initiated by your CW keying or external PTT footswitch or hand switch, not by the radio.

The device has a built-in side tone generator for CW. Which means you can listen to what you're keying while it's being held in the bucket brigade delay for transmit after the programmed delay. This side tone is adjustable from 300 to 000 Hz in 50 Hz steps. The unit supports full break-in CW and requires 13.8VDC. It also allows you to use DX Engineering's Active Receive Antennas in close proximity to your transmit antennas.

DXE-TVSU-1B Time Variable Sequence Unit..... **$319.99**

Single Direction Beverage Feed System

The DXE-BFS-1 is a single-wire Beverage Feed System. This W8JI design is immune to strong signal overload and core saturation common in multi-transmitter contesting environments, and is used by winning contest stations and low-band DXers. The unit uses an isolated-winding, matching transformer system to significantly increase the signal-to-noise ratio in Beverage and other high impedance antennas.

The DXE-BFS-1 works with antenna impedances from 400-500 Ω. Included with the DXE-BFS-1 is a 470 Ω, 2 watt non-inductive resistor that withstands nearby lightning strikes significantly better than hard-to-find carbon composition resistors.

Feedline impedance on the DXE-BFS-1 is designed for 75 Ω, although it will work with 50 Ω coax. The DXE-BFS-1 uses an industry standard CATV F connector. DX Engineering sells quality 75 Ω coax and F connectors for outdoor installations.

DXE-BFS-1



Benefits

- 100 kHz to 30 MHz operating range
- Spark gaps minimize damage from lightning
- Wing nut terminals eliminate soldering
- Metal housings used for superior shielding and improved life
- Flange-mount holes for easy mounting
- Ground isolated secondary essential for building Beverage arrays

DXE-BFS-1 Beverage Feed System, with One Resistor..... **$115.99**
DXE-ECM-R470-2 470 Ω, 2 Watt Resistor, Lightning Damage-Resistant, Pack of 10 ..... **$31.99**

2-Port Receiving Antenna Switch

Select one of two output ports (generally connected to different receiving antennas) from one feedline using the DXE-RLS-2. Install the DXE-RLS-2 with two DXE-RBSA-1A Reversible Beverage Antenna Systems and select four directions using a single main feedline. Install one or more DXE-RLS-2 switches to expand larger Beverage arrays and share the feedline back to the operating position.



Applying a nominal 12 Vac or DC control voltage through the feedline activates transfer to port 2. Use DX Engineering's DXE-FVC-1 Voltage Coupler to supply the control voltage through the feedline.

Benefits

- Metal housings used for superior shielding and improved life
- High-quality components
- Reliable CATV F connectors standard
- Broad 0.3 to 30 MHz operating range with 75 Ω systems
- Jumper-selectable—control voltage pass-through to the selected port

DXE-RLS-2 Receiving Antenna Switch **$115.99**

DX ENGINEERING

Active Magnetic Loop MF/HF Receiving Antenna



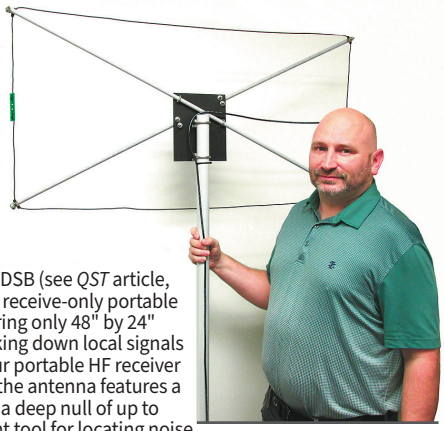
The well-known RF-PRO-1B® is manufactured and sold exclusively by DX Engineering. This original Pixel loop design incorporates a high performance Norton preamplifier designed by Clifton Laboratories' engineer Jack Smith, K8ZOA with excellent broadband reception from 50 kHz to 30 MHz. Installation is easy, because it's only 38" in diameter. When rotated, this antenna provides deep nulls for effective reduction of directional noise and interfering signals. Ideal for amateurs, SWLs and AM DXers, this loop also offers up to 30 dB rejection of electrostatic field noise. This receive only antenna cannot be connected to a transmitter RF output.

- Rejects power line noise
- Rugged construction, easily mounts to a pole or flat vertical surface
- No manual tuning necessary
- Low-profile design works at ground level
- Modular construction for easy installation and maintenance

DXE-RF-PRO-1B Active Magnetic Loop Antenna **$809.99**

DX ENGINEERING

NOISELOOP Portable Receive Flag Antenna Kit



Based on a design by Don Kirk, WD8DSB (see *QST* article, March 2021), this kit lets you build a receive-only portable directional HF loop antenna measuring only 48" by 24" plus 36" mast handle. Used for tracking down local signals while walking or stationary with your portable HF receiver (e.g., HT, SW, IC-705 or similar rigs), the antenna features a cardioid pattern at the horizon with a deep null of up to 30 dB rejection. It makes an excellent tool for locating noise sources from 1.8 through 30 MHz and for low-noise, general coverage reception from the AM broadcast band through 30 MHz. Kit includes fiberglass tubing for the frame and handle, mounting plate, separate PC boards for the bifilar wound transformer and load resistor, antenna wire, coaxial cable with male BNC, and stainless steel hardware. Simple hand tools and a soldering iron are required for assembly, typically 1 to 2 hours. An optional Preamplifier-Attenuator Unit, DXE-NL-PRE-ATT-1, may be attached to the loop mast handle for enhanced operations. Weighing less than 9 oz., the fully assembled unit includes easy-to-slide attenuation switches for -10 dB or -20 dB and -30 dB and an AM Broadcast Band Rejection Filter. The device provides a nominal 30 dB gain across the frequency range from 100 kHz through 30 MHz; runs on a 9V battery (not included).

DXE-NOISELOOP Portable Receive Flag Antenna Kit **$159.99**
DXE-NL-PRE-ATT-1 NOISELOOP Portable Preamplifier-Attenuator **$175.99**

WMO-26000

WiMO

QRM Eliminator

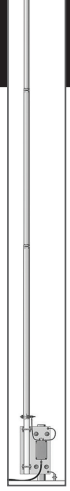


Get ready to make contacts you thought were impossible thanks to WiMo's new adjustable phasing network for canceling out QRM. The team at WiMo understand the headaches amateur operators experience due to noise interference from local electronic sources, such as computers, TVs and power supplies. The company's easy-to-tune QRM Eliminator is a handy device that gets rid of local interference up to an S9 level. The inline unit is inserted into the feedline from the trx to the antenna without any additional radio modifications required. The box includes a built-in PTT control which enables the QRM Eliminator to stay connected during transmit. The QRM Eliminator uniquely allows you to adjust phase angle as well as amplification to cancel out unwanted signals before they reach the receiver front-end. An additional auxiliary receiving antenna, such as a 2m antenna or even a couple feet of wire, is required.

WMO-26000 QRM Eliminator, Adjustable Phasing Network **$229.99**

DX ENGINEERING

Vertical Antenna



The DXE-AL24 Vertical Antenna includes ground-mounting plate, clamps, and wires to connect a receive-only element amplifier, such as the upgraded replacement DXE-AVA-3, or the legacy Hi-Z or DXE-AVA-2 models. This 24-foot telescoping aluminum tubing antenna is made to withstand the elements.

DXE-AL24 Vertical Antenna for DXE and Hi-Z Receive Systems **$415.99**

Suggested Parts

Sometimes Ham Radio gear requires special accessories like hookup cables and brackets to complete an installation. Visit DXEngineering.com and check out the "Suggested Parts" tab on certain products to see what you'll need to get up and running.

Quiet Radio®

Aziloop DF-72 Multi-Directional Receive Antenna System



Enhance your listening experience with this "network attached" antenna system from QuietRadio, which delivers VLF to HF reception with no rotator and no control cable required—only a single convenient 50 or 75 Ω coaxial cable. The low-visual-impact system boasts capabilities not offered with single-loop antennas, and it can be operated remotely with any browser wherever an Internet connection is available. The system comes with the rugged weatherproof outdoor Loop Control Unit, the indoor Common Interface Unit with SMA RF connectors, and software app for intuitive control of your DIY HF loop antennas, which remain stationary during operation while being rotated electronically by the user. Stepped-Azimuth™ technology allows directional control of the antenna to produce 72 uni-directional headings in K9AY mode (cardioid pattern) and 36 bi-directional headings in Loop mode (classic figure-eight pattern). Users can expect effective directionality, optimal balance of signal-to-noise ratio versus dynamic range, solid results on the low bands and for shortwave listening, and easy remote operation. User supplies 13.8VDC power supply, Windows PC, coax, and builds their fiberglass-supported antenna consisting of two perpendicular 30' wire loops, 25' maximum height. Discover the difference in quality and performance!

AZL-AZILOOP-DF72 Aziloop DF-72 Multi-Directional Receive Antenna System **$779.99**

Deshibo GA-800 Active Loop RX Antenna

CHELEGANCE
JNCRadio



Covering 10 kHz-159 MHz (including the 2200 through 2M Amateur bands), the GA-800 features a 10.27" antenna loop featuring convenient automatic tuning, with built-in amplifier and interference suppression. Unlike the GA-450, the GA-800 can also be operated remotely, away from domestic interference in a garden or backyard. Its compact design and light weight (1.43 lbs.) makes it ideal for home use, while camping, or in an RV. Simply set up the antenna, connect the receiver, and start listening. Due to its directionality, the GA-800 can be easily turned in the direction of the signal source, while blocking out any interference that may be present. The 3.7VDC, 2600mAh 18650 battery is integrated into the housing and is charged via a USB-C port (cable included). This antenna set includes a male BNC-to-BNC cable and a BNC-to-3.5mm adapter cable for connection to your receiver. A USB-A to USB-C cable is also included for charging the battery from a laptop or an AC power adapter (AC power adapter not included).

NCE-CH0030016 Deshibo GA-800 Active Loop RX Antenna **$177.00**

DX ENGINEERING

Connector Terminating Loads



These useful devices can be used on receive equipment, splitters and feedlines for operational and testing purposes. Available in packs of five with 50 Ω BNC connectors or 75 Ω F-Type connectors.

DXE-TL50-BNC-5P Connector Terminating Loads, 50 Ω BNC, 5 Pack..... **$22.99**
DXE-TL75-F-5P Connector Terminating Loads, 75 Ω F-Type, 5 Pack..... **$15.29**

Feedpoint Voltage Coupler



- Inject control voltages onto feedline
- Injects +/- 12 Vdc or 12 Vac
- For use with DXE-RBSA-1P Reversible Beverage Systems
- Required 120VAC to 12VAC supply is included

DXE-FVC-1 Feedpoint Voltage Coupler **$185.99**

Prices are subject to change without notice.

⚠ **WARNING:** For Proposition 65 information, see p. 3

STAMPFL HAM ELECTRONICS

X One Active Dipole Receive Antenna



Built for durability and ease of installation, the X One is precision-engineered for wideband coverage from 9 kHz-150 MHz. The 31.5" antenna features high immunity to nonlinear distortion, delivering clean and accurate signal reception under challenging conditions. Common-mode rejection of up to 60 MHz minimizes interference, while an integrated FM lock, configurable via internal jumpers, enhances selectability when needed. It's suitable for mounting onto masts with diameters between 1.57"-2.4". The antenna comes with Type-N connector and Type-N to BNC adapter. Operates on 12-14VDC.

KOC-STAM-X-ONE X One Active Dipole Receive Antenna **$704.93**

Enter "KOC" at DXEngineering.com for more details.

Wave Block Preselector

STAMPFL HAM ELECTRONICS



This RF filtering solution for 0-30 MHz is designed to optimize receiver performance and protect sensitive front-end circuitry. Positioned between the antenna and receiver/transceiver, it's ideal for SDRs and wideband HF receivers. The preselector employs eight switchable bypass ranges to attenuate out-of-band signals, mitigating overload from strong sources such as AM broadcast stations. Key benefits include low insertion loss (1 dB), high dynamic range (IM3 ≈ 50 dBm), ripple control within ±0.5 dB, intuitive TFT display, and sturdy aluminum enclosure. **Enter "KOC" at DXEngineering.com for more details.**

KOC-STMWAVEBLOCK Wave Block Preselector **$1,107.44**

RXT Terminating Resistors

UM Unified Microsystems



Unified Microsystems continues to build top-quality high-performance parts for competitive Hams. Its RXT series terminating reisistors have been designed to work with the most popular types of low band receive antennas. The 2-watt, high-surge-tolerant resistors feature low inductance, a gas discharge tube for added electrical protection, a NEMA-rated case for handling the toughest conditions, stainless steel hardware and internally coated electronics.

UMS-RXT-1000 Terminating Resistor, 1,000 Ohms..... **$21.99**

UMS-RXT-470 Terminating Resistor, 470 Ohms..... **$21.99**

UMS-RXT-270 Terminating Resistor, 270 Ohms..... **$21.99**

Coaxial Cable Surge Protectors

CITEL



From CITEL, a company that has been keeping the world's critical networks and equipment protected since 1973, comes this selection of DC pass and DC block coaxial cable surge protectors engineered to provide robust protection against overvoltage transients. The devices use advanced gas discharge tubes (GDT) to effectively dissipate high-energy surges. Featuring waterproof housing for long-lasting reliability and replaceable GDTs, CITEL cable surge protectors offer low insertion loss and high surge-handling capacity for amateur radio stations as well as commercial and industrial environments. Discover exceptional protection for VHF, UHF, SHF radios, and SDR receivers.

CIL-611812 UHF Female, Bulkhead Mount, DC Pass, Up to 2.5 GHz, 770W Max Power..... **$59.99**

CIL-60211 Type-F Female, Bulkhead Mount, DC Pass, Up to 2 GHz, 15W Max Power..... **$64.99**

CIL-6116721 UHF Female, Bulkhead Mount, DC Pass, Up to 2.5 GHz, 25W Max Power..... **$66.99**

CIL-6000150 Type-N Female, Bulkhead Mount, DC Pass, Up to 3.5 GHz, 25W Max Power..... **$75.99**

CIL-60017 Type-N Female, Bulkhead Mount, DC Pass, Up to 4 GHz, 780W Max Power..... **$76.99**

CIL-CXP25-NFFDCB Type-N Female, Bracket Mount, DC Block, 125-1GHz, 190W Max Power..... **$89.99**

CIL-60007 Type-N Male/Female, Bulkhead Mount, DC Pass, 3.5 GHz, 780W Max Power..... **$94.99**

CIL-60001 Type-N Male/Female, Bulkhead Mount, DC Pass, 3.5 GHz, 25W Max Power..... **$94.99**

DX ENGINEERING

Receive Feedline Surge Protector



This unique in-line design is impedance matched to 75 Ω and virtually transparent to both analog and bi-directional signals from DC to 1.0 GHz. The patented and proprietary gas tube construction has an integral failshort mechanism for a power-cross condition that shunts both your cable's center conductor and sheath for a common path to ground. The protection element resets after each over-voltage incident.

DXE-RLP-75FF Receive Feedline Surge Protector, 75 Ω, DC Pass, F Connectors **$29.99**

Antenna Splitter Amplifiers



The ASA-15 Antenna Splitter Amplifier distributes the signal of one receiving antenna to up to five receivers. Each of the five outputs has an individually selectable wideband amplifier with 12 dB gain. A 15 dB attenuator is integrated in the input to reduce strong signals. The internal distribution is done with low-noise amplifiers, which isolate outputs and receivers from each other. A power supply (12VDC/1A) is included. The ASA-16 Antenna Splitter Amplifier makes one antenna shareable with up to six independent receivers. When its PTT input is engaged, all receivers are isolated by more than 60 dB (at 12 MHz) from the input. The ASA-62 Antenna Splitter Amplifier allows you to distribute up to six 9kHz-70MHz antenna signals to up to two receivers. Each input is buffered by a low-noise amplifier (AD8099) so that the signals cannot influence each other. Front-panel pushbuttons provide simple operation. The ASA-62 can also be operated remotely. A power supply cable is included. **Enter "ELAD Splitter" at DXEngineering.com for more details.**

ELAD

ELD-PF-ASA15 Splitter Amplifier, 1 Antenna Signal to 5 Receivers..... **$327.99**

ELD-PF-ASA16 Splitter Amplifier, 1 Antenna Signal to 6 Receivers..... **$305.99**

ELD-PF-ASA62 Splitter Amplifier, 6 Antenna Signals to 2 Receivers **$309.99**

UM Unified Microsystems

BevFlex-4X Reversible Receive Antenna Systems

UMS-BEVFLEX-4X



Take advantage of Unified Microsystems' versatile BevFlex-4X Reversible Receive Antenna System to enjoy the exceptional performance of a two-direction, low-noise, low-band receiving antenna that's perfect for hams facing property size limitations. The BevFlex-4X is the updated and improved version of W8GNM's antenna design that uses low-cost, low-loss RG-6 coaxial cable for the elements and the feedline for a Reversible Elevated Beverage, Reversible Beverage-on-Ground (BOG), EWE, Flag or VE3DO loop antenna.

The BevFlex-4X allows hams to place and connect the feedpoint unit anywhere along the length of an Elevated Beverage or BOG antenna, rather than only at one end or the other. This flexibility allows an operator to position the feed at a more optimal location, such as closer to the shack. Operators can install two BevFlex-4X systems at right angles to cover all four quadrants of the compass. The antenna enables operators to instantly switch to the reverse direction regardless of the configuration. The system includes a feed unit, two terminator units, and a control switch unit. The new BevFlex-4X-Q combines two sets of terminator and feed units with the RAS-4 remote antenna switch to let you hear better in all four quadrants.

UMS-BEVFLEX-4X BevFlex-4X Dual-Direction Reversible Receive Antenna System **$349.99**

UMS-BEVFLEX-4X-Q BevFlex-4X 4-Direction Reversible Receive Antenna System **$649.95**

UMS-RAS-4 Receive Antenna Switch for up to 4 Antennas..... **$124.95**

Beverage Antenna Transformer



The transformer's output is a perfect match for low-loss 75 Ω RG-6 CATV coaxial cable, which keeps your overall receive antenna system cost down. Plus, it's fully enclosed in a weathertight, plastic housing, making it a great option if you deploy your Beverage antenna year-round. The BT-75 also has a built-in gas discharge tube for protection against lightning strikes. Integrated flanges make it easy to mount, too.

UMS-BT-75 Beverage Antenna Transformer.... **$37.95**

Broadband Coaxial Lightning Protectors

PolyPhaser CORPORATION



These 50 Ω, DC-blocked protectors are great for general, single transmitter use in the 1.5 to 700 MHz frequency ranges. Available with either a bulkhead or flange mount, Polyphaser's Lightning Protectors use a gas tube design that has no DC continuity between the center pins. Polyphaser's Multi-Strike products pass all RF frequencies while blocking all DC—offering excellent protection from voltage spikes.

PPR-IS-50UX-C0 UHF Female, Flange, 2,000 W, 1.5-700 MHz..... **$105.99**

PPR-IS-50NX-C0 Type N Female, Flange, 2,000 W, 1.5-700 MHz..... **$99.99**

PPR-IS-B50LN-C0 Type N Female, Bulkhead, 2,000 W, 1.5-700 MHz..... **$109.99**

PPR-IS-B50LU-C0 UHF Female, Bulkhead, 2,000 W, 1.5-700 MHz..... **$131.99**

PPR-IS-B50HU-C0 UHF Female, Bulkhead, 3,000 W, 1.5-700 MHz..... **$161.99**



DX ENGINEERING

Utility Enclosure Package

The Utility Enclosure Package is a high-impact thermoplastic enclosure ideal for outdoor mounting of all types of lightning protectors or other equipment. Its weathertight design protects the components from rain and direct water spray. It resists degradation from environmental contaminants, chemical fertilizers and insecticide sprays that can ruin metallic housings.

The thermoplastic housing and wire entrance grommet material are fire retardant and UV stabilized. The enclosure can be painted with latex or oil base paints if needed to blend it in with its location. The kit includes an aluminum mounting plate for attaching your lightning protectors and ground strap.

Mounting hardware, mounting plate and four weathertight large feed-through grommets for RG-213 and LMR-400 sized cable are included.
Optional feed-through grommets for smaller cables are available.

DXE-UE-2P	Utility Enclosure Package, 13" W x 14" H x 4" D	**$92.99**
DXE-CFT-1P	Large Cable Feed-Through Grommets, Pack of 6	**$19.99**
DXE-CFT-2P	Small Cable Feed-Through Grommets, Pack of 6	**$19.99**

DXE-ATT3G-BRKT



DXE-RCT-BRKT



Flange Mounting Brackets

These brackets convert many popular stud-mount lightning protectors, like Alpha Delta's Coaxial Surge Protector, to a flange mount. The conversion makes them easier to mount inside DX Engineering's UE-2P Utility Enclosure. Hardware is included.

DXE-ATT3G-BRKT	Flange Mounting Bracket, Straight	**$10.99**
DXE-RCT-BRKT	Flange Mounting Bracket, Right Angle	**$9.99**

Transi-Trap Broadband Coaxial Surge Protectors

ALPHA DELTA Radio Communications



These gas-tube surge arrestors protect sensitive equipment from excessive voltage and current caused by static buildup or a lightning strike. The 50 Ω DC voltage pass-through design is perfect if you're using coaxial cable to carry both RF and DC voltage, like in an antenna switch. These protectors use a replaceable Arc-Plug™ cartridge that you can change in the field without tools. They feature a 1/4"-20 mounting stud for easy installation.

The Defense Logistics Agency has assigned an NSN of 5920 01 5470278 to the model TT3G50 Coax Surge Protector and NSN 5325 01 5466841 to the 3G50 Arc-Plug cartridge for use in all U.S. Military and NATO applications worldwide.

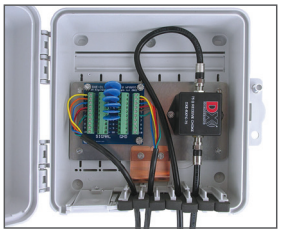
Part Number	Mount	Connector	Frequency	Power Handling	Price
ALF-ATT3G50	Stud	Type N	3 GHz	200 Watts	**$79.99**
ALF-ATT3G50HP	Stud	Type N	3 GHz	2,000 Watts	**$79.99**
ALF-ATT3G50F	Stud	F Connector	3 GHz	200 Watts	**$79.99**
ALF-ATT3G50FHP	Stud	F Connector	3 GHz	2,000 Watts	**$79.99**
ALF-ATT3G50U	Stud	SO-239	500 MHz	200 Watts	**$69.99**
ALF-ATT3G50UHP	Stud	SO-239	500 MHz	2,000 Watts	**$69.99**
ALF-AT3G50UBXL	Bulkhead	SO-239	500 MHz	200 Watts	**$79.99**
ALF-ATT3G50UBHP	Bulkhead	SO-239	500 MHz	2,000 Watts	**$79.99**
ALF-AT3G50UM90	90°	SO-239 & PL-259	500 MHz	200 Watts	**$79.99**
ALF-AT3G50UM90HP	90°	SO-239 & PL-259	500 MHz	2,000 Watts	**$79.99**
ALF-3G50	Replacement Arc-Plug			200 Watts	**$15.99**
ALF-3G50HP	Replacement Arc-Plug			2,000 Watts	**$15.99**

DX ENGINEERING



Small Utility Enclosure Kit

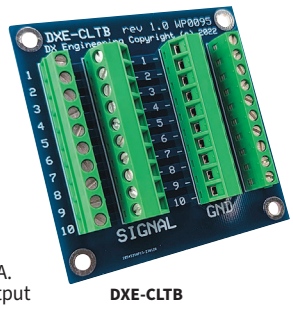
Based on feedback from operators, DX Engineering went to work on a solution for customers who successfully used the UE-2P Utility Enclosure but also wanted a more compact option for reliable outdoor mounting of lightning protectors and other equipment. The result is the DXE-UE-1P Small Utility Enclosure. Measuring 9.4" x 9.2" x 4.1", the thermoplastic enclosure delivers the same weathertight design and reliable protection of components provided by the larger model. Kit includes aluminum mounting plate (for attaching lightning protectors and ground strap), mounting hardware, copper strap clamp, and two cable feed-through grommets for most RG6 or RG-8X sized cable (optional cable feed-through grommets for larger cables also available). Because it has many potential applications, no holes have been drilled in the enclosure. Four mounting holes are pre-drilled in the aluminum mounting plate. Unit can be painted with latex or oil base paint. **Enter "UE-1P" at DXEngineering.com for more details.**



DXE-UE-1P	Small Utility Enclosure	**$59.95**

DX ENGINEERING

Control Line Terminal Board Kit and Electronic Protection Components



DXE-CLTB

The DX Engineering Control Line Terminal Board is designed to provide a flexible and simplified approach to control line surge protection. The DXE CLTB is a 3" square printed circuit board with four ten-wire compression screw terminal blocks that handle from 14 to 26 AWG conductors and up to 10A. The two outer terminal blocks are for input and output of the control wires and the two 45 degree angled ten-wire compression screw terminal blocks are for connecting the required number of individual electronic surge protection components. This provides for the choice of components to install between the control line and ground for shunt protection. Metal oxide varistors, gas discharge tubes, ESD suppressor TVS diodes, RF bypass capacitors (see DX Engineering components below) and other wire lead parts are easily connected between each control line conductor and ground with the DXE-CLTB. This open-board, no-chassis concept allows easy mounting on a single-point grounding panel to support simplified inspection and exchange of control line electronic surge protection components that should be done on a regular basis. For effective protection wherever electronic devices are used as a shunt to ground, a low impedance ground is crucial. The DXE-CLTB has four corner ground plane screw holes. It includes a hardware kit with four self-tapping screws, spacers, and external tooth washers for mounting on a metal grounding panel inside an enclosure.

DXE-CLTB	Control Line Terminal Board Kit	**$62.99**
DXE-MOV-82VDC-10	Metal Oxide Varistor, Surge Protector, Max. 82VDC/50VAC Pack of 10	**$11.99**
DXE-GDT-4KV-5	Gas Discharge Tube, Surge Arrestor, 4kV, Pack of 5	**$15.99**
DXE-TVS-1500-10	ESD Suppressor TVS Diodes, Bi-Directional, Max. 17VDC, Pack of 10	**$13.99**
DXE-CAP-PT1UF-10	Ceramic RF Bypass Capacitors, 0.1uf, 1kVDC, Pack of 10	**$20.99**

DIAMOND ANTENNA

Protect your station's sensitive electronics from damaging spring and summer lightning strikes with Diamond Antenna SP-Series Lightning Arrestors. Choose the coaxial connection scheme and RF power rating that suits your needs. They're designed to pass DC current, so you can install them inline with external devices requiring coaxial DC power-feed.



Part Number	Description	Price
Lightning Arrestors		
DMN-SP3000	DC-3000 MHz, 200 W Max, Type N Female to Type N Female	**$39.99**
DMN-SP3000P	DC-3000 MHz, 400 W Max, Type N Female to Type N Male	**$41.99**
DMN-SP3000W	DC-3000 MHz, Waterproof, Type N Female to Type N Female	**$41.99**
Lightning Surge Protectors		
DMN-SP1000	DC-1000 MHz, 400 W Max, UHF Female to UHF Female	**$31.99**
DMN-SP1000PW	DC-1000 MHz, 400 W Max, UHF Female to UHF Male	**$34.99**

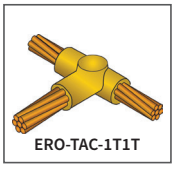


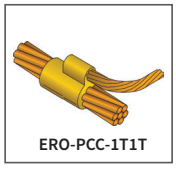
CADWELD® Exothermic Welding System

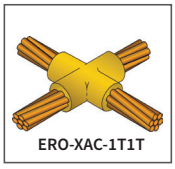
The ideal way to secure a copper wire to a ground rod is by welding it securely to the top. The problem is, many of us don't have easy access to a welder. Erico's CADWELD process lets you make copper-to-copper or copper-to-steel electrical connections without the need for outside heat or power sources. The result is a permanent bond that won't loosen or corrode over time. Though it's relatively straightforward, we strongly recommend that you read and understand the CADWELD process before ordering. More One Shot modules available at DXEngineering.com.

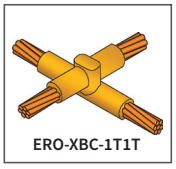

ERO-T320

Part Number	Wire Connections	For Rod OD	Fits AWG (Stranded)	Fits AWG (Solid)	Price
CADWELD One Shot Modules					
ERO-GR1-141G	1	1/2"	8	8, 6	**$22.65**
ERO-GR1-141L	1	1/2"	6,4	4, 3	**$22.65**
ERO-GR1-161G	1	5/8"	8	8, 6	**$22.65**
ERO-GR1-161L	1	5/8"	6, 4	4, 3	**$24.85**
ERO-GR1-161V	1	5/8"	3, 2	2, 1	**$26.19**
ERO-GT1-141G	2	1/2"	8	8, 6	**$25.65**
ERO-GT1-141L	2	1/2"	6, 4	4, 3	**$25.65**
ERO-GT1-141V	2	1/2"	3, 2	2, 1	**$32.85**
ERO-GT1-161G	2	5/8"	8	8, 6	**$26.19**
ERO-GT1-161L	2	5/8"	6, 4	4, 3	**$26.19**
ERO-GT1-161V	2	5/8"	3, 2	2, 1	**$30.19**
CADWELD Mold to Ground Bar					
ERO-GRT-14A1T	1	1/2"	—	2	**$263.99**
ERO-GRC-161T	1	5/8"	—	2	**$263.99**
ERO-GRC-181T	1	3/4"	—	2	**$263.99**
CADWELD Molds, General Use					
ERO-TAC-1T1T	Tee			2	**$263.99**
ERO-PCC-1T1T	Flyway			2	**$263.99**
ERO-XAC-1T1T	X			2	**$263.99**
ERO-XBC-1T1T	Stacked X			2	**$263.99**
ERO-LAC-1TCE	Cable to Lug/Bus Bar			2	**$263.99**
ERO-T320	Specialized Flint Igniter for CADWELD System				**$22.79**


ERO-TAC-1T1T


ERO-PCC-1T1T


ERO-XAC-1T1T


ERO-XBC-1T1T

Copper-Bonded Ground Rods

Properly ground your station with these 99.9% pure electrolytic copper coated ground rods. The rods feature a high carbon steel core to ensure that they won't bend or distort while being driven into the Earth.



ERICO

Part Number	OD	Length	Price
ERO-613840	0.358"	4'	**$19.35**
ERO-613852	0.358"	5'	**$17.29**
ERO-613880	0.358"	8'	**$34.35**
ERO-611360	0.504"	6'	**$43.99**
ERO-615840	0.560"	4'	**$26.19**
ERO-615880	0.560"	8'	**$46.09**
ERO-615800	0.560"	10'	**$59.55**
ERO-613460	0.681"	6'	**$58.45**
ERO-613480	0.681"	8'	**$76.35**

Ground Clamps and Connectors

Solid mechanical connections are critical in a grounding system. These clamps aren't your basic hardware store variety; they are specifically made for precision electrical applications.


ERO-CP34

ERO-CP34 Ground Clamp, 1/2"-3/4" Rod to Cable, Bronze.....**$32.59**
ERO-CP38 Ground Clamp, 3/8" Rod to Cable, Bronze.....**$6.09**
ERO-CP58 Ground Clamp, 1/2"-5/8" Rod to Cable, Bronze.....**$5.85**
ERO-MBNC82 Mesh Bonding Network Connector, 8 AWG.....**$12.69**

In-Stock Parts Typically Ship The Same Day.

DX ENGINEERING

Ladder Line Surge Protector



At DX Engineering, we take customer feedback seriously. It's how some of our most useful products come to light. So when active Hams asked us about developing a surge protector to use with their 300 Ω and 450 Ω ladder line fed antennas, we went to work. The result is the DX Engineering Ladder Line Surge Protector, a device that's ready to be placed in line with your balanced feedline antenna system and connected to a ground rod. Compared to coaxial protectors, the DXE-LLSP uses much larger capacitors, resistors and gas discharge tubes (rated to handle 5 kW) on each leg of the ladder line to offer excellent surge protection capabilities. This protector easily handles over 5,000W of RF power at high SWR, sustains multiple minor surges, and bleeds off static charge collected on the antenna from wind-driven sand, rain and snow. The unit works with 300/450 Ω ladder line and 600 Ω open-wire feeder line.

DXE-LLSP Ladder Line Surge Protector.....**$85.99**

DX ENGINEERING

DXE-IS-RCT



Rotator Control Line Protector

Protect your control lines using this unit's eight individually shunt-protected terminals. When the voltage spikes above 82 Vdc in either polarity, the Rotator Control Line Protector automatically shunts the circuit to ground using an MOV for maximum surge protection.

The protector is housed in a weatherproof metal enclosure with an integrated mounting stud, which makes it easy to attach to a tower leg or ground rod. Terminal gaskets help prevent any moisture from entering the housing.

DXE-RCT-BRKT



DXE-IS-RCT Rotator Control Line Protector.....**$189.99**
DXE-RCT-BRKT Right Angle Flange Mounting Bracket.....**$9.99**

PARADAN radio

Antenna Disconnect Actuator



This small, handy device can play a big part in protecting your station. Install Paradan's Antenna Disconnect Actuator in the coaxial cable that feeds the antenna. When power from your transceiver or station power supply is turned off, it automatically disconnects the antenna from your station and grounds the antenna feedline, reducing the chance of station damage from static-discharge, surges and lightning pulse effects. You'll never again have to worry about remembering to unplug the system. Further safeguards are provided via a gas discharge tube on the antenna coax input which protects the radio from lightning pulse damage while operating. The relays have diode protected coils to eliminate reverse spikes. The actuator's water-resistant enclosure may be installed in the shack at the output of the transceiver, amplifier or tuner, or outdoors in line with the antenna coaxial cable. The unit handles 1,500 watts of RF from 1.8 to 50 MHz. The PDN-P-ADA-2 model automatically disconnects and isolates any radio equipped with two antenna ports and grounds both antenna SO-239 coaxial connectors. The two radio SO-239 connectors may also be used for two separate transceivers or receivers.

PDN-P-ADA-1 Antenna Disconnect Actuator.....**$115.00**
PDN-P-ADA-2 Dual Antenna Disconnect Actuator.....**$190.00**

Mid-Span Coaxial Grounding Kits

TIMES MICROWAVE SYSTEMS An Amphenol Company

Easily install a ground lug virtually anywhere along your coaxial cable run. These kits are a great solution if you want to ground your cable in an atypical location. Simply strip back the cable jacket, tighten down the pre-formed metal strap and secure your ground lugs. Make sure to weatherproof your grounded section after you've installed one of these kits to prevent water ingress into the cable. Check out the Cleaning and Weatherproofing section of this catalog for tape and other supplies.



TMV-GK-S400TT Mid-Span Coaxial Grounding Kit, for LMR-400 Size Cable.....**$45.99**
TMV-GK-S600TT Mid-Span Coaxial Grounding Kit, for LMR-600 Size Cable.....**$37.99**

LT Coaxial Surge Protector

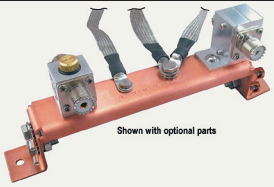
ALPHA DELTA Radio Communications

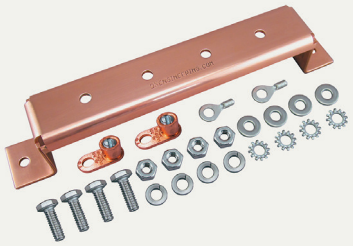
Don't live in fear of lightning strikes. This unit is designed to protect your delicate and expensive equipment from lightning-induced voltage spikes. It covers frequencies from DC to 30 MHz and handles 200 watts. In-line installation is easy with two SO-239 connectors.



ALF-LT LT Coaxial Surge Protector.....**$39.99**
ALF-LT-ARC-PLUG Replacement Arc Plug® for ALF-LT.....**$21.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3





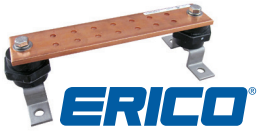
DX ENGINEERING

Copper Ground Bus Wall Mount

As the foundation of your single-point ground system, DX Engineering's Copper Ground Bus Wall Mount is made from heavy-gauge tempered copper. That means it is strong enough to handle the weight of long cable runs. Can be installed indoors or outdoors, and includes mounting hardware. The bracket has plenty of room for multiple PolyPhaser flange-mount or Alpha-Delta TT/ATT3G50 series coaxial surge protectors, find full dimensions at DXEngineering.com.

DXE-GBWM-W	Copper Ground Bus Wall Mount, 10.8"	$70.99
DXE-GBWM-HP	Replacement Hardware Pack	$20.99

Copper Ground Bar



Make sure all your grounds are at equal potential. A near-zero voltage differential ensures a uniform path to ground, which helps protect you and your equipment. This 1/4" thick bar is an excellent start to your single-point grounding system.

ERO-EGBA14210JF Copper Ground Bar, 2" x 10" $105.99

DX ENGINEERING

ECLS-Series Band Clamps with Stud



The ECLS-Series clamps feature a 3/4 inch long, 10-24 welded stud for easy connection of feed wire, baluns, current chokes, etc. to tubular elements. Stainless steel hardware included.

Band Clamps with Stud		Pack of 2
DXE-ECLS-050	0.500" OD Tube	$18.99
DXE-ECLS-062	0.625" OD Tube	$18.99
DXE-ECLS-075	0.750" OD Tube	$18.99
DXE-ECLS-087	0.875" OD Tube	$19.99
DXE-ECLS-100	1.000" OD Tube	$19.99
DXE-ECLS-125	1.250" OD Tube	$22.99
DXE-ECLS-150	1.500" OD Tube	$22.99
DXE-ECLS-175	1.750" OD Tube	$23.99
DXE-ECLS-200	2.000" OD Tube	$23.99
DXE-ECLS-225	2.250" OD Tube	$23.99
DXE-ECLS-250	2.500" OD Tube	$23.99
DXE-ECLS-275	2.750" OD Tube	$24.99
DXE-ECLS-300	3.000" OD Tube	$24.99
DXE-ECLS-325	3.250" OD Tube	$24.99

DX ENGINEERING

Exhaust System Grounding Kit



Many modern vehicles have separate fuel injectors and spark coils for each cylinder. These units can create substantial pulses on the vehicle wiring. Because the exhaust system is bolted directly to the engine and supported by insulated mounts, it can be excited just like an antenna and radiate pulse noise. By using one of our Exhaust Grounding Kits, you may eliminate that last bit of stubborn noise in your mobile installation. The kit includes a stainless steel saddle clamp and stainless steel hardware.

DXE-EGK-200	Grounding Kit for 2" Exhaust Pipe	$31.99
DXE-EGK-225	Grounding Kit for 2.25" Exhaust Pipe	$32.99
DXE-EGK-250	Grounding Kit for 2.5" Exhaust Pipe	$32.99
DXE-EGK-300	Grounding Kit for 3" Exhaust Pipe	$34.99

DX ENGINEERING

DXE-J-1

Ground Wire to Copper Ground Rods



The DX Engineering J series clamps are used to connect ground wire to copper ground rods sized from 0.625 inch to 2.25 inches. They accept wire ranging from #2 stranded to #10 solid. These clamps are made of cast bronze and include 18-8 stainless steel hardware.

DXE-J-1	Wire to Rod Transition Clamp, 0.625" to 1.25"	$16.99
DXE-J-2	Wire to Rod Transition Clamp, 1.25" to 2.25"	$45.99

Ground Strap



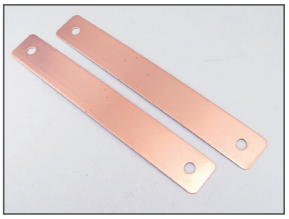
DX Engineering offers quality tinned copper braid in 5 widths for grounding applications. It is sold per foot to accommodate any indoor project. Very long per-foot lengths may not be continuous—contact Customer Service to discuss your length needs if continuous length is required.
The strap is available in these sizes:

DXE-TCB-038	3/8" wide x 1/32" thick	per foot	$0.85
DXE-TCB-050	1/2" wide x .030" thick	per foot	$1.02
DXE-TCB-063	5/8" wide x .030" thick	per foot	$1.52
DXE-TCB-075	3/4" wide x .040" thick	per foot	$1.87
DXE-TCB-100	1" wide x .045" thick	per foot	$2.25

Need advice? 1-330-572-3200 or DXEngineering@DXEngineering.com

GC

Flexible Ground Strap Jumpers



Enjoy the advantages of Georgia Copper Flexible Ground Strap Jumpers, instead of wire or cable, for low impedance outdoor or indoor grounding, HF antenna feedpoint and radial system connections. Even after severe weathering, copper ground straps are still effective for low impedance uses. Unlike tinned copper braid, these straps won't hold moisture, disintegrate and increase in impedance over time. The 1" or 0.75" wide, 0.022" thick flexible solid copper straps are precut and punched with 0.250" or 0.28" holes at each end. They're available as two-packs in 6", 12", 24", 36", 48", and 72" lengths, or in a variety pack that contains one piece of each length. Straps can also be cut for your specific low impedance grounding and connection projects.

GCL-1006-A-2PK	Copper Ground Strap Jumpers, 6", 1" Wide, Pair	$22.99
GCL-1012-A-2PK	Copper Ground Strap Jumpers, 12", 1" Wide, Pair	$35.99
GCL-1024-A-2PK	Copper Ground Strap Jumpers, 24", 1" Wide, Pair	$42.99
GCL-1036-A-2PK	Copper Ground Strap Jumpers, 36", 1" Wide, Pair	$42.99
GCL-1048-A-2PK	Copper Ground Strap Jumpers, 48", 1" Wide, Pair	$45.99
GCL-1072-A-2PK	Copper Ground Strap Jumpers, 72", 1" Wide, Pair	$49.99
GCL-10VPJ-6PK	Copper Ground Strap Jumpers Variety Pack, 6", 12", 24", 36", 48", 72", 1" Wide, One Each	$114.99

New! 0.75" Flexible Ground Strap Jumpers with 0.28" Holes

GCL-0706-A-2PK	Copper Ground Strap Jumpers, 6", 0.75" Wide, Pair	$21.99
GCL-0712-A-2PK	Copper Ground Strap Jumpers, 12", 0.75" Wide, Pair	$25.99
GCL-0724-A-2PK	Copper Ground Strap Jumpers, 24", 0.75" Wide, Pair	$29.99
GCL-0736-A-2PK	Copper Ground Strap Jumpers, 36", 0.75" Wide, Pair	$33.99
GCL-0748-A-2PK	Copper Ground Strap Jumpers, 48", 0.75" Wide, Pair	$35.99
GCL-0772-A-2PK	Copper Ground Strap Jumpers, 72", 0.75" Wide, Pair	$39.99
GCL-07VPJ-6PK	Copper Ground Strap Jumpers Variety Pack, 6", 12", 24", 36", 48", 72", 0.75" Wide, One Each	$81.99

DX ENGINEERING

Ground Braid Assemblies

These are available preassembled with lugs for both #10 and 1/4 inch bolt sizes. A grounding strap is ideal for grounding a rig, amp, etc. to a copper strip running behind the desk; the strip becomes the central ground point for the equipment. This central ground can be routed away with heavy copper strap to join any other similarly protected branches for single point grounding (SPG) lightning protection. For indoor use.

Assemblies with 1/2 Inch Wide Braided Strap		
DXE-TCB05-RT01	#10 Ring Lugs, 1'	$14.59
DXE-TCB05-RT03	#10 Ring Lugs, 3'	$16.59
DXE-TCB05-RT06I	#10 Ring Lugs, 6"	$14.25
DXE-TCB05-RT09I	#10 Ring Lugs, 9"	$15.69
DXE-TCB05-RT05	#10 Ring Lugs, 5'	$19.99
DXE-TCB05-RT10	#10 Ring Lugs, 10'	$23.99
DXE-TCB05-RT18I	1/4" Ring Lugs, 18"	$15.59
DXE-TCB05-RT24I	1/4" Ring Lugs, 2'	$15.99
DXE-TCB05-RT36I	1/4" Ring Lugs, 3'	$18.89
3/4 Inch Wide Braided Strap		
DXE-TCB075-RT18I	1/4" Ring Lugs, 18"	$16.09
DXE-TCB075-RT24I	1/4" Ring Lugs, 2'	$16.59
DXE-TCB075-RT03	1/4" Ring Lugs, 3'	$16.69
Assemblies with 1 Inch Wide Braided Strap		
DXE-TCB10-RT06I	1/4" Ring Lugs, 6"	$15.49
DXE-TCB10-RT09I	1/4" Ring Lugs, 9"	$15.69
DXE-TCB10-RT01	1/4" Ring Lugs, 1'	$15.49
DXE-TCB10-RT18I	1/4" Ring Lugs, 18"	$16.79
DXE-TCB10-RT24I	1/4" Ring Lugs, 2'	$17.49
DXE-TCB10-RT03	1/4" Ring Lugs, 3'	$19.19
DXE-TCB10-RT05	1/4" Ring Lugs, 5'	$23.99
DXE-TCB10-RT10	1/4" Ring Lugs, 10'	$31.99


DXE-TCB05-RT03


DXE-TCB10-RT18I


DXE-TCB10-RT24I


DXE-TCB10-RT03

Copper Strap to Tower

DX ENGINEERING



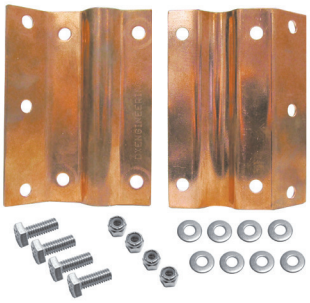
The TK clamp series has a stainless steel plate to go between the copper strap and galvanized tower leg to prevent corrosion due to dissimilar metals. For use with tower leg diameters from 0.625 inches to 3.25 inches.

DXE-TK-1A	Strap to Tower Leg Ground Clamp, 0.625" to 1.25"	$13.49
DXE-TK-2A	Strap to Tower Leg Ground Clamp, 1.25" to 2.25"	$10.29
DXE-TK-3	Strap to Tower Leg Ground Clamp, 2.25" to 3.25"	$10.29

⚠ WARNING: For Proposition 65 information, see p. 3

DX ENGINEERING

Universal Copper Grounding Clamp



Whether setting up permanent grounding at your base station or protecting your portable gear from disaster on Field Day, make sure you have DX Engineering's Universal Copper Grounding Clamps handy. The team at DX Engineering has made these easy-to-use clamps for mounting lightning protectors commonly used for Amateur Radio, including models from PolyPhaser, Alpha Delta and others. The DXE-UCGC-Z mounts up to six surge protectors onto one ground rod, fits common 5/8" through 3/4" diameter ground rods, and is made from 1/16" thick Copper Alloy 110 for maximum conductivity. The clamp's "Z" shape makes installation and removal of coax connectors on protectors easy. For further protection, the clamp can accommodate a solid copper strap from the station's grounding bus bar. Stainless steel hardware is included.

For complete details, enter "Z Clamp" at DX Engineering.com.

DXE-UCGC-Z Universal Copper Grounding Clamp **$65.99**

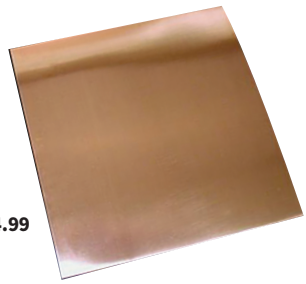
Flexible Copper Grounding Strap

A critical part of a low inductance ground system, copper strap's larger surface area has lower inductance per foot than equivalent cross-section wire. Use it to tie equipment back to a common ground point. Copper strap should also be used to make a non-resonant counterpoise for towers located on mountaintops or other rocky terrain. The copper straps listed here are 2" wide. The copper straps are also available in 1/2", 1", 1.5", 3", 4" and 6" widths in 25', 50' and 100' lengths at DXEngineering.com.



Part Number	Thickness	Width	Length	Price
GCL-1120-025	0.012"	2.00"	25'	**$69.99**
GCL-1120-050	0.012"	2.00"	50'	**$113.99**
GCL-1120-100	0.012"	2.00"	100'	**$207.99**
GCL-1220-025	0.022"	2.00"	25'	**$106.99**
GCL-1220-050	0.022"	2.00"	50'	**$188.99**
GCL-1220-100	0.022"	2.00"	100'	**$352.99**

Flexible Copper Sheeting

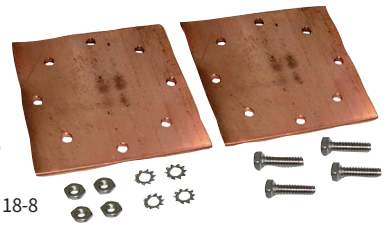


Perfect for making Faraday shields, or for fabricating heat sinks, covers, ground busses, solder tabs and more. The 12" x 12" sheet is 0.022" thick.

GCL-3215 Flexible Copper Sheeting... **$24.99**

DX ENGINEERING

Copper Strap to Copper Strap Clamp



The DXE-MSC-3 bonding clamp is ideal for bonding two copper straps together, for extending an existing run or to add drops to equipment. It accepts ground straps from 1.5 to 3 inches and includes 18-8 stainless steel hardware.

DXE-MSC-3 Multi-Strap Clamp..... **$48.99**

DX ENGINEERING

Copper Strap to Copper Ground Rod Clamp



This clamp bonds a 0.625 inch ground rod to copper strap. 18-8 stainless steel hardware included.

DXE-58R-112S-2 Strap to Copper Ground Rod Clamp..... **$79.99**

Copper Cleaning Kit



Proper preparation of the copper surfaces and application of copper joint compound prior to bonding is essential to maintain the low resistance properties of the strap connection. The copper cleaning kit has everything needed to establish the bond. The kit includes a non-abrasive scrub pad, copper joint compound and complete instructions.

DXE-CCK Copper Cleaning Kit..... **$32.99**

DX ENGINEERING





DXE-RGP-LC

Copper Radio RF Ground Plane Kits

Amateur Radio operators know that radio frequency interference (RFI) can significantly diminish transmitted and received signal quality. DX Engineering's Radio RF Ground Plane Kits offer an effective solution to this common problem by reducing stray RF pickup by indoor radio equipment and interconnecting cables. The kits include a 1/16-inch-thick copper sheet. When placed under your HF radios, microphones and other devices, this RF ground plane, also known as a reference plane, decreases the chances of experiencing RF trouble. The copper sheet is connected to your existing grounding bus.

Used by top contesters and DXers, copper RF ground planes curtail voltage differences between pieces of equipment and associated currents that cause RF interference to transceivers, microphones, tuners, amplifiers, computers and other electronic equipment. Further, placing audio and data cables directly on the metal surface can lessen their ability to pick up RF. DX Engineering Radio RF Ground Plane Kits come with either a 13" x 10", 16" x 16", or 20" x 20" pre-drilled copper sheet and all necessary hardware for easy installation. Kits are available with or without an MDF mounting board. *Radio RF Ground Planes are intended for indoor use only and are not to be confused with ground planes or radial systems used for vertical antennas.*

DXE-RGP-LC Copper Ground Plane Kit, 20" x 20" **$217.99**
DXE-RGP-LCB Copper Ground Plane Kit, 20" x 20" with MDF **$235.99**
DXE-RGP-MC Copper Ground Plane Kit, 16" x 16" **$176.99**
DXE-RGP-MCB Copper Ground Plane Kit, 16" x 16" with MDF **$192.99**
DXE-RGP-SC Copper Ground Plane Kit, 13" x 10" **$114.99**
DXE-RGP-SCB Copper Ground Plane Kit, 13" x 10" with MDF **$124.99**





DXE-RGP-LA

Aluminum Radio RF Ground Plane Kits

For budget-minded hams, DX Engineering's Aluminum Radio RF Ground Plane Kits offer an effective solution for mitigating shack RFI issues but at a reduced cost. Kits are the same as the copper kits but with aluminum sheets.

DXE-RGP-LA Aluminum Ground Plane Kit, 20" x 20" **$72.99**
DXE-RGP-LAB Aluminum Ground Plane Kit, 20" x 20" with MDF **$102.99**
DXE-RGP-MA Aluminum Ground Plane Kit, 16" x 16" **$62.99**
DXE-RGP-MAB Aluminum Ground Plane Kit, 16" x 16" with MDF **$87.99**
DXE-RGP-SA Aluminum Ground Plane Kit, 13" x 10" **$51.99**
DXE-RGP-SAB Aluminum Ground Plane Kit, 13" x 10" with MDF **$71.99**

SS-30™ Pure Copper Anti-Seize Lubricant



Use Jet-Lube on your taps, lugs, aluminum tubing joints, copper grounding straps, clamps, stainless steel hardware and virtually anywhere you need excellent electrical and RF conductivity. Jet-Lube prevents oxidization and corrosion, which makes it an effective thread lubricant and conductive anti-oxidant termination compound. Its superior anti-seize properties make it a must-have when making metal-to-metal connections. Jet-Lube is safe for aluminum, copper, bronze, steel, tin and galvanized hardware.

JTL-12555 Jet-Lube, 0.25 Lb. Brush-Top Can..... **$33.99**
JTL-12502 Jet-Lube, 0.50 Lb. Brush-Top Can..... **$46.99**
JTL-12504 Jet-Lube, 1.00 Lb. Brush-Top Can..... **$69.99**

Window Feed-Through Panel



Easily mounted to a windowsill, the FTP-5U Window Feed-Through Panel is the ideal weatherproofed solution for connecting up to five coaxial cables with PL-259 connectors. The panel also allows you to connect a ground cable or copper strap outside without drilling or cutting through walls. Aluminum plates on both sides of the feed-through panel bond all five coax shields together, and the stainless steel ground post brings your outdoor ground connection inside. Built with high-quality 0.688"-thick cedar wood, the panel exhibits excellent insulating properties and is naturally resistant to rot, decay, and insect damage. User cuts the cedar 48" x 3.5" panel to fit. It can be customized with a user-applied finish or left natural. The panel comes with five SO-239 bulkhead connectors, five vinyl caps for the connectors, a 1/4"-20 grounding stud with wing nut, and 10' roll of black rubber foam self-stick weatherstripping. **Enter "FTP-5U" at DXEngineering.com and click Documentation to view instructions showing installation examples.**

DXE-FTP-5U Window Feed-Through Panel.....**$179.99**

Through Window/Door Cable Set



Pass this set through the narrow openings of a window, door or even a vent. This 20 inch cable has an SO-239 connector at each end to make installation easy. It can handle up to 150 watts with a VSWR less than 1.2:1 at up to 500 MHz and an insertion loss lower than 1.7 dB.

DMN-MGC50 Through Window/Door Cable Set **$56.99**

COMET™

Window Feed-Thru Jumper

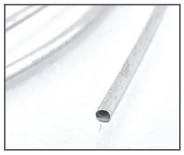


This 16 inch long feed-through lets you slip a flexible cable underneath your window sash. It handles 100 W (PEP), has an SWR under 1.3:1 (below 500 MHz) and uses two SO-239 connectors. With a nominal loss of .5 dB up to 500 MHz, it's a solution that will please everyone.

CMA-CTC-50M Feed-Thru Jumper **$64.95**

DX ENGINEERING

Tinned Copper Radial Wire



Have a ground-mounted vertical antenna? How would you like to benefit from the same long-lasting, high-performance quality wire used by top contesters and DXers around the globe? DX Engineering makes it possible and cost-effective.

DX Engineering 16 AWG Tinned Copper Radial Wire is a great choice for high-count, full-size ground radial wire systems that are required for top-performing HF vertical antenna installations, including 4-element Four Square Array Systems, 3-element ProStack Arrays, and 2-element Dual Vertical Arrays. When subjected to a range of soil conditions, DX Engineering's solid copper wire lasts much longer than bare copper, copper-coated steel and aluminum wires. Available in spools of 500, 1,000, 2,500 and 5,000 feet. Note: It is recommended to use Biodegradable Anchor Pins (DXE-STPL-100BD) to hold down bare wire radials.

DXE-TCRW16-500 Tinned Copper Radial Wire, 500' **$99.99**
DXE-TCRW16-1000 Tinned Copper Radial Wire, 1,000' **$209.99**
DXE-TCRW16-2500 Tinned Copper Radial Wire, 2,500' **$524.99**
DXE-TCRW16-5000 Tinned Copper Radial Wire, 5,000' **$1,049.99**



DX ENGINEERING

Weatherproofing Kits

Don't overlook the importance of weatherproofing your connectors. Moisture can cause corrosion, which leads to arcing, shorts and other significant RFI and electrical issues. The basic kit includes self-adhesive weatherproofing material and 3M Tartan 1710 vinyl UV-resistant electrical tape. The Upgraded version uses professional grade Scotch Super 33+ tape, while our Ultimate version includes Super 88 electrical tape.

DXE-WK-1 Basic Weatherproofing Kit, Tartan Tape..... **$15.99**
DXE-WK-2 Upgraded Weatherproofing Kit, Super 33+ Tape **$20.99**
DXE-WK-3 Ultimate Weatherproofing Kit, Super 88 Tape..... **$23.99**
DXE-WK-PRO Pro Kit, 5 Rolls Super 88 Tape, 3" x 6' Weatherproofing Material **$97.99**



RKT-CBLRING


RKT-WINDOWWING


RKT-WINDOWWING

ROCKET MACHINE WORX

New!



RKT-CBLRING-KIT


RKT-MICROPATCH


RKT-TRAVELPATCH

Cable Routing & Management Accessories

Rocket Machine Worx specializes in high-quality, precision-made accessories designed to keep stations smartly arranged and well-organized. Designed and CNC-machined in Millen, Georgia, by the company's Navy veteran owners, Rocket Machine Worx products made from 6061-T6 aluminum let operators professionally install and cleanly manage coaxial cables around the shack.

CableRing Cable Feedthrough


RKT-MINIPATCH

Here's a great-looking solution for getting coax cables into the shack. This pass-through is compatible with standard 2" PVC pipe (not included) and provides a precision press fit into the pipe, ensuring your cables are neatly routed through floors, walls, and other surfaces. It features a 3.120" diameter and radiused inner edges that allow cables to glide effortlessly through, even with connectors attached. CableRing covers a 2-3/8" drilled hole.

RKT-CBLRING CableRing Cable Feedthrough..... **$67.00**
RKT-CBLRING-KIT Kit w/2 CableRings & Closed Cell Insulation..... **$156.00**

Bulkhead Coaxial Connector Panels

Made from ½"-thick aluminum, Micro, Mid, and Mini panels feature 5/8"-24 CNC-threaded holes that accept the included high-quality SO-239 bulkhead connectors. Additional threaded holes allow for flexible mounting options. The round TravelPatch comes with panel, closed cell foam gasket, one 2" SO-239 bulkhead connector, and six stainless steel mounting screws.

RKT-MICROPATCH MicroPatch, 3.5" x 3", 3 Holes for 3 SO-239s **$49.99**
RKT-MIDPATCH MidPatch, 6" x 6", 7 Holes for 7 SO-239s **$227.00**
RKT-MINIPATCH MiniPatch, 6" W x 3.5 H", 5 Holes for 5 SO-239s..... **$139.00**
RKT-TRAVELPATCH TravelPatch, 3-1/8" Diameter, 1 Hole for 2" SO-239..... **$59.99**

Window Wing Coax Feedthrough Mounting Kit

This kit adapts the MiniPatch or MicroPatch panels with standard residential window frames, enabling temporary RF cable pass-through without structural modification. The system utilizes precision-cut marine-grade HDPE wings that slide over stainless steel threaded mounting studs, providing a rigid and weather-resistant mounting surface. Kit includes two wings, stainless steel threaded mounting studs and hardware, laser-cut closed cell foam gaskets, and anti-seize compound. MiniPatch, MicroPatch, and SO-239 connectors not included.

RKT-WINDOWWING Window Wing Coax Feedthrough Mounting Kit **$109.99**

DX ENGINEERING



Coaxial Connection Waterproofing Kits

Rain and melting snow can be a Ham's worst enemy. Let water and condensation creep into your coaxial cables and you're looking at reduced performance, noise and possible shorts that could damage your expensive equipment. Protect your investment with Coaxial Connection Waterproofing Kits from DX Engineering. Use the kit's self-fusing 3M Temflex™ 2155 Rubber Splicing Tape to create a strong water barrier. Then apply the 3M Vinyl Electrical Tape for added layers of UV protection. Each kit will weatherproof six to ten double connections, depending upon the number of overlapping layers used. Three grades of 3M Vinyl Electrical Tape are offered: Scotch Super 88 Premium or Scotch Super 33 Plus for long-term installations, and economy 3M Tartan 1710 for temporary weather protection.

DXE-WPCC88-1 Super 88 Electrical Tape, Temflex 2155 Rubber Splicing **$21.98**
DXE-WPCC33-1 Super 33+ Electrical Tape, Temflex 2155 Rubber Splicing **$19.98**
DXE-WPCCTO-1 Tartan 1710 Electrical, Temflex 2155 Rubber Splicing.....**$13.98**

Tinned Copper Grounding Wire



DX Engineering now offers Tinned Copper Grounding Wire from Georgia Copper, a company owned by Gary Smith, a licensed Ham with decades of experience upgrading ground systems and firsthand knowledge of what the Amateur Radio community needs. When copper straps can't be used, Georgia Copper's high-quality tinned copper wire is a good choice for grounding tasks, winding large loading, and matching coils for low band vertical antennas where high power handling is required.

GCL-5021-TIN-025 Tinned Copper Wire, 2 AWG, 25' Coil..... **$65.99**
GCL-5021-TIN-050 Tinned Copper Wire, 2 AWG, 50' Coil..... **$135.99**
GCL-5021-TIN-100 Tinned Copper Wire, 2 AWG, 100' Coil..... **$275.99**

Visit DXEngineering.com for the latest limited-time offers and special savings!

⚠ WARNING: For Proposition 65 information, see p. 3

PS-30 Compact Power Supply



New!

This lightweight and compact (3.30 lbs., 5.10" W x 2.40" H x 7.30" D) desktop power supply is built for performance and versatility. It delivers a 30-amp surge and 25-amp continuous DC output at 13.8VDCs, making it ideal for powering HF, VHF, UHF, GMRS, and commercial two-way radios, as well as most 12V lights and equipment. For easy connectivity, the PS-30 features two front-mounted genuine Anderson Powerpole® connectors and rear-mounted ¼" binding posts. It features an AC input range of 100-130VAC (60Hz) and uses a dual cooling system that combines natural convection airflow with a temperature-controlled variable speed fan.

VLT-PS-30 30-Amp Compact Power Supply.....**$139.99**

50A Switching Power Supply

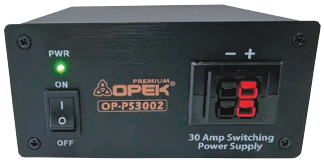


This dependable, well-built switch mode AC to DC power supply comes with variable output voltage and is suitable for use with all electronic and telecommunication devices. It comes with illuminated voltmeter and ammeter, and a knob for adjusting output voltage. The power supply (50A continuous/peak load) can be set for a fixed output voltage of 13.5VDC or adjusted from 9 to 15VDC via front panel slide switch. Cooling is provided by a large rear panel fan. Rear panel DC connectors are five-way binding posts with removable red and black thumbscrews for stripped wire, ring terminals, and banana plugs. Input 100-120VAC, attached three-prong cord. The unit weighs 6.4 lbs. and measures 7.2" W x 4.4" H x 11.2" D.

RMY-SPS1050S 50A Switching Power Supply **$335.99**



VLT-OP-PS3001D



VLT-OP-PS3002

12VOLT POWER



VLT-OP-PS3005D

OPEK 30A Switching Power Supplies

The OPEK OP-PS3001D power supply is designed to run almost any 12 Volt Power electronic product with clean and reliable power. Includes user-selected 4-16VDC output via front-mounted adjustment knob. Power your DC devices using either the front-mounted 1/4" binding posts or rear-mounted dual Powerpoles. These power supplies are rated at 25A continuous and 30A surge. Other features include orange backlit LCD that shows both DC output voltage and amperage; cooling provided by normal airflow around the power supply in combination with a temperature-controlled fan to improve cooling at higher levels of use; and a universal AC input allowing for 100 to 240VAC (50/60Hz), selected by a rear panel switch. The PS3002 version has a DC output voltage of 13.8VDC, input of 100-120VAC, and front-mounted dual Powerpoles and rear-mounted 1/4" binding posts. Binding posts can also accept banana plugs. The PS3005D model features an ultra-efficient design, cool blue LCD, and 28A continuous (30 max. output).

VLT-OP-PS3001D OPEK 30A Digital Switching Power Supply, 4-16VDC, 25A Cont./30A Surge.....**$159.99**

VLT-OP-PS3002 OPEK 30A Switching Power Supply, 13.8VDC, 25A Cont./30A Surge.....**$152.99**

VLT-OP-PS3005D OPEK 30A Switching Power Supply, 13.8VDC, 28A Cont./30A Surge.....**$159.99**

RigExpert



Shackmaster™ Power 600 Power Supply

This space-saving and sturdy desktop 40A/13.8VDC power supply boasts 600W of continuous power; a mains input range of 80-264VAC and 47-63 Hz; customizable touchscreen panel for on-off, power, voltage, amperage, and temperature readouts; a display that visually rotates to support horizontal or vertical orientation of the supply; an Intelligent Protection System that provides safeguards against overvoltage, overcurrent, and short circuits; low EMI and acoustic noise (21 dB operation); and multiple connectivity options (full power 5V USB A and USB B charging ports, 13.8V front and rear panel 45A rated Powerpoles, and 30A rated rear panel binding posts); plus real-time remote control capability, all housed in a sleek design that will look great in your shack. Plus, the Power 600 goes through four phases of quality control checks before arriving at your station—your guarantee that you've made a solid choice. **Enter "POWER600" at DXEngineering.com for more details.**

REU-POWER-600 Shackmaster 600W Power Supply..... **$429.99**

Prices are subject to change without notice.

samlexamerica®



SXA-03436



SXA-03435

SEC Series Desktop Switching Power Supplies

Here are rock-solid power supplies that don't take up half of your shack. Compact and reliable, the SEC Series Desktop Switching Power Supplies are loaded with over-current, over-voltage and short-circuit protection. They're also well-filtered to produce clean, noise-free power. New from Samlex is the SEC-1235P-M model, which offers updated features, upgraded performance and ratings, and universal input of 100 to 240VAC for international flexibility.

Rack Plates

These durable standard-width rack plates are a great way to get your SEC-series power supplies off your desk and into a rack. They have a black powdercoat finish and cutouts for bottom-mounted fans.

DXE Number	Samlex Number	Output (Cont.)	Output (Peak)	Price
120VAC Input				
SXA-03051	SEC-1212	10A at 13.8VDC	14A at 13.8VDC	**$153.00**
SXA-03061	SEC-1223	23A at 13.8VDC	25A at 13.8VDC	**$180.90**
SXA-03064^	SEC-1223BBM	23A at 13.8VDC	25A at 13.8VDC	**$232.80**
SXA-03431	SEC-1235	30A at 13.8VDC	35A at 13.8VDC	**$200.30**
SXA-03435*	SEC-1235M	30A at 13.8VDC	35A at 13.8VDC	**$221.40**
230VAC Input				
SXA-03052	SEC-1212CE	10A at 13.8VDC	14A at 13.8VDC	**$243.50**
SXA-03062	SEC-3062	23A at 13.8VDC	25A at 13.8VDC	**$282.10**
120 and 230VAC Inputs				
SXA-03436	SEC-1235P-M	30A at 13.8VDC	36A at 13.8VDC	**$231.10**
Rackmount Plates and Power Supply Cable for SEC Series				
SXA-03104	Rackmount Plate for Single Supply			**$53.20**
SXA-03105	Rackmount Plate for Dual Supplies			**$68.10**
SXA-03294	SEC-PSPP 12"DC Pigtail with Powerpoles Terminations			**$27.20**

*** Includes Dual Meters ^ Includes Dual Meters and Battery Backup**

samlexamerica®



Base Station Radio/Power Supply Cabinets

These cabinets from Samlex provide a convenient and attractive housing for your base radio or control station and mating power supplies. Featuring steel construction, the cabinets are a simple way to organize your desktop and create a unifying look. Cabinets are crafted to accept your choice of radio and Samlex power supply. DX Engineering carries cabinets for Icom, Kenwood, Harris, Motorola, and Vertex radios. Also available are packages that come with cabinet and Samlex power supply (radio not included). **Enter "SXA Cabinet" at DXEngineering.com for the full lineup.**

SXA-12250 Radio/Power Supply Cabinet, Kenwood **$51.90**

SXA-12333 Radio/Power Supply Cabinet, Icom IC-F5061/IC-F6061..... **$51.90**

SXA-13618 Cabinet for Kenwood Radio w/ Samlex 23A Power Supply **$232.90**

SXA-13621 Cabinet for Icom Radio w/ Samlex 23A Power Supply **$232.90**

KENWOOD



KWD-KPS-15

DC Switching Power Supply

Kenwood has answered your call for a versatile supply that delivers clean, noise-free power. The KPS-15 model offers over-voltage, over-current, and over-temperature protection.

Weighing only 3.3 pounds, this compact supply (7.2" W x 2.2" H x 8.7" D) will power virtually any radio that needs 13.8VDC at 23A (cont.)/25A (peak). The input voltage is easily reset internally from 120VAC to 240VAC. Includes standard rear panel AC connector IEC 320-C13 three conductor and DC screw-down terminals.

KWD-KPS-15 Power Supply, 13.8VDC, 25A Peak, Convection Cooled... **$193.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

ALINCO

Switching Mode Power Supplies

Alinco adjustable power supplies perfectly complement its radios, yet they're also excellent bench supplies for gear that needs a stable, clean DC power source. They feature a selectable volt/amp meter and a handy noise offset knob to let you move the switching noise to another frequency. These supplies also incorporate short circuit and current limiting protection.



ALO-DM-30TR



ALO-DM-530T

The DM-30TR (9-15VDC) comes with two pairs of Anderson Powerpole connectors on the front panel for extra versatility. Like the ultra-compact DM-430TR (5-15VDC), it features a highly visible and accurate digital Volt/Amp meter for real-time monitoring of the output current. The DM-530T (120VAC input) is Alinco's largest digital power supply, featuring a higly visible and accurate digital Volt/Amp meter that allows real-time monitoring of the output current, along with a durable cooling fan that keeps the unit running continuously under heavy loads. All models accept 120VAC input voltage except for the DM-530E, which comes with a 230VAC Europlug.

Enter "ALO-DM" at DXEngineering.com for more details.

Part Number	Output	Peak Current	Display	Connections	Price
ALO-DM-30TR	9-15VDC	30A	Digital	Binding Posts, Powerpoles	**$145.95**
ALO-DM-430TR	5-15VDC	30A	Digital	Binding Posts, Powerpoles	**$158.99**
ALO-DM-530E	5-15VDC	30A	Digital	Binding Posts, Powerpoles, USB Ports	**$249.95**
ALO-DM-530T	5-15VDC	30A	Digital	Binding Posts, Powerpoles, USB Ports	**$239.95**

ASTRON CORPORATION

SS Series Switching Power Supplies

If you need a power supply that doesn't eat up the space on your desk, Astron offers these low profile options. They deliver a steady 13.8VDC and are immune to RFI. These supplies include an EMI filter to resist RFI, even in the HF bands.

ASR-SS-10





ASR-SS-25-AP



ASR-SS-25M-AP

The "M" in the number denotes models that include front panel volt and amp meters. "-AP" denotes models that feature Powerpoles and USB charging ports.

Part Number	Description	Amps Continuous/Peak	Price
ASR-SS-10	Power Supply	7A/10A at 13.8VDC	**$154.95**
ASR-SS-12	Power Supply	10A/12A at 13.8VDC	**$170.95**
ASR-SS-18	Power Supply	15A/18A at 13.8VDC	**$198.95**
ASR-SS-25-AP	Power Supply	20A/25A at 13.8VDC	**$254.95**
ASR-SS-25M-AP	Supply with Dual Meters	20A/25A at 13.8VDC	**$308.95**
ASR-SS-30-AP	Power Supply	25A/30A at 13.8VDC	**$275.95**
ASR-SS-30M-AP	Supply with Dual Meters	25A/30A at 13.8VDC	**$331.95**
ASR-SS-50-AP	Power Supply	40A/50A at 13.8VDC	**$352.95**
ASR-SS-50M-AP	Supply with Dual Meters	40A/50A at 13.8VDC	**$397.95**

DIAMOND ANTENNA

GZV4000 Switching Mode Power Supply

The compact and lightweight GZV4000 provides a variable voltage output from 5 to 15VDC at up to 40 amps in continuous operation.



DMN-GZV4000

This versatile power supply looks great and offers you rock-solid performance. The attractive front panel includes a selectable meter with post, snap-on and cigarette lighter outputs. The voltage control knob has a center 13.5VDC detent for precise adjustability. A built-in 8 watt speaker makes this power supply a versatile addition to your shack's setup. Includes overload and over-temperature protections, plus insensitivity to RFI.

DMN-GZV4000 Switching Mode Power Supply, 40A.....**$209.99**

MOONRAKER

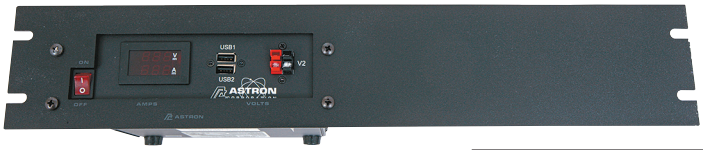


SM-30II Switching Desktop Power Supply

This efficient 30A switching mode power supply features an adjustable output voltage range of 9-15VDC or 13.8VDC switched with a rear panel 13.8VDC setting, ensuring versatility for various applications. It includes a noise offset control system, which eliminates pulse noise from the DC output. This patent-pending function is designed for communication equipment use (effectiveness varies depending on frequency/mode). The unit has dual analog meters for real-time monitoring of voltage and current. Other features include short-circuit protection and automatic current limiting over 30A; lightweight (5.51 lbs.), compact (6.7" W x 4.7" H x 9" D) design; two-pair snap-in DC terminals; and screw-on terminals. Input voltage is 120VAC. Also available in a 50A model.

MKR-99-579 SM-30II 30A, Switching Desktop Power Supply, 9-15VDC ...**$229.99**

MKR-99-656 SM-30II 50A, Switching Desktop Power Supply, 9-15VDC ...**$427.99**



ASTRON CORPORATION

SRM-50-AP Rack Mount Switching Power Supply

Astron's SRM-50-AP offers high-efficiency switching technology specifically filtered for use with all communication equipment, including HF. Featuring a heavy-duty design in a low-profile (19" W x 3.25" H x 9.25" D), lightweight package (7 lbs.), the SRM-50-AP has an output voltage of 13.8VDC; a rating of 40A continuous duty (50A peak at 13.8VDC); heat-sink cooling; 90-260VAC input voltage; front-panel dual Anderson Powerpoles; dual 5.2VDC, 1.5A USB A ports; dual meters; and mounting capability on a supplied 19" 2U rack panel. Power supply protection includes foldback current limiting, crowbar over-voltage, over-temperature shutdown, and an internal fuse.

ASR-SRM-50-AP Rack Mount Switching Power Supply **$388.95**

DIAMOND ANTENNA



30A Linear Power Supply

Boasting quiet, smooth, and trouble-free operation, the GSV-3000 linear power supply features a 30A continuous rating at 100% duty cycle; an adjustable DC output range of 1-15VDC with a maximum of 3mVpp ripple; a large meter for selectable monitoring of voltage; automatic current overload, short-circuit, and reverse polarization protection; and automatic internal cooling fan. Users can choose to connect via voltage-out quick-connect, binding posts, or built-in cigarette lighter socket. Power supply measures 9.8" W x 5.9" H x 9.4" D and weighs 21 lbs.

DMN-GSV3000 30A Linear Power Supply **$234.99**

YAESU

The radio

YSU-FP-1030A



Power Supplies

Designed to work with Yaesu and other radios, these 120VAC input power supplies deliver a clean and steady 13.8 Vdc. An excellent choice for your base station, the switching power supply is fan cooled and supplies 23A (peak)/20A (cont.).

The FP-1030A offers 25A (peak)/22A (cont.). It's a fan-cooled, linear power supply with a pair of front panel volt and amp meters. The supply also features two pairs of terminals, a set of binding posts and a front panel cigarette lighter socket, making it a good bench supply for testing and diagnostic work.

YSU-FP-1023A Switching Power Supply **$229.99**

YSU-FP-1030A Linear Power Supply **$369.99**

12V 25 Amp In-Vehicle DC Power Supply

New!



THE POWER OF REDARC®

The REDARC 12V 25 amp in-vehicle DC power supply provides regulated power for load requirements, such as lamps, radios, computers, and more from a 12V automotive power system. Perfect for sensitive loads, this DC power supply has a wide input voltage range (9 to 32V) and generates little electric noise, which enables the unit to power high-tech radio systems without interference.

With a robust and flexible installation option, it's fully encapsulated in REDARC's silicone elastomer and can be externally mounted on a vehicle or used in marine applications. Benefits include built-in surge protection, reverse polarity, more efficiency with regulated output power, and improved functionality.

RDC-DPS1225 In-Vehicle DC Power Supply.....**$535.00**

ASTRON CORPORATION



ASR-RM-50M

Rack Mounted Linear Power Supplies

Get consistent, reliable power using these rack mounted linear power supplies. These adjustable, solid state supplies are electronically regulated to offer less than 5mV peak to peak ripple. They incorporate fold-back current limiting and a heavy-duty heat sink to ensure years of solid power delivery. Find full details at DXEngineering.com.

Part Number	Description	Amps Continuous/Peak	Price
Rack Mounted Power Supplies with 11 to 15VDC Adjustable Output			
ASR-RM-35A	Power Supply	25A/35A at 13.8VDC	**$535.95**
ASR-RM-35A-BB	Power Supply, Battery Backup	25A/35A at 13.8VDC	**$578.95**
ASR-RM-35M	Power Supply, Dual Meters	25A/35A at 13.8VDC	**$564.95**
ASR-RM-35M-BB	Supply, Dual Meters, Battery Backup	25A/35A at 13.8VDC	**$621.95**
ASR-RM-50M	Power Supply, Dual Meters	37A/50A at 13.8VDC	**$653.95**
ASR-RM-50M-BB	Supply, Dual Meters, Battery Backup	37A/50A at 13.8VDC	**$697.95**
ASR-RM-60M	Power Supply, Dual Meters	50A/55A at 13.8VDC	**$845.95**
ASR-RM-60M-BB	Supply, Dual Meters, Battery Backup	50A/55A at 13.8VDC	**$947.95**

LS Power Supplies

Delivering an adjustable 22 to 32 volts of regulated DC power, these Astron linear power supplies feature over-voltage protection, low-ripple and a heavy-duty heat sink. Each power supply incorporates fold-back current limiting to protect it from excessive current and accidental shorts.

Part Number	Description	Amps Continuous/Peak	Price
ASR-LS-3A	Power Supply	3A/4A at 28VDC	**$152.95**
ASR-LS-10A	Power Supply	8A/10A at 28VDC	**$247.95**
ASR-LS-18A	Power Supply	12A/18A at 28VDC	**$402.95**



ASR-A4812-24

ASTRON CORPORATION



ASR-ISO4812-24

Step-Down DC/DC Converters

Offering a high-efficiency DC conversion, these units are great if you've got a specialized DC power source and need it stepped-down to a stable 13.8VDC. They have over-voltage, short circuit and reverse polarity protection (on the input side). The non-isolated versions are designed for negative ground applications, while the fully-isolated models are ideal for positive ground systems.

Part Number	Description	Input Voltage	Max. Output Current	Price
ASR-ISO2412-12	Isolated DC Converter	22 to 32VDC	10A	**$177.95**
ASR-ISO2412-24	Isolated DC Converter	22 to 32VDC	20A	**$252.95**
ASR-A4812-12	DC/DC Converter	30 to 56VDC	9A	**$107.95**
ASR-A4812-24	DC/DC Converter	30 to 56VDC	18A	**$156.95**
ASR-ISO4812-12	Isolated DC Converter	36 to 72VDC	10A	**$177.95**
ASR-ISO4812-24	Isolated DC Converter	36 to 72VDC	20A	**$252.95**

SAM Series DC/AC Modified Sine Wave Inverter



If you just want reliable DC power for your tools, lights or appliances, then you don't need a pure sine inverter. Save yourself some money and check out this modified DC/AC inverter from Samlex (SXA-07809). This SAM Series inverter converts 12- or 24-volt DC input voltage into reliable 120-volt AC. The unit boasts a maximum 800W of continous power and 1,600W surge capability, plus two AC receptacles and one USB.

Both cost effective and powerful, SAM Series inverters feature a compact design, a load controlled cooling fan and an ETL safety listing. A USB charging port (5VDC, 500 mA) is included. **For details on more SAM Series inverters, ranging from 100 to 3,000 watts, enter "SAM Inverter" at DXEngineering.com.**

SXA-07809 DC/AC Modified Sine Wave Inverter, 800W..... **$127.20**





JDP-1730 DC Power Distribution Panel

New!

CHELEGANCE JNCRadio

Built for desktop and wall installation, this distribution panel provides up to 50A of total current capacity. Each of the six output channels (five Anderson Powerpoles® and one binding post pair) are individually fused for safe operation. A 2.4" LCD shows voltage, current, power, and energy in real time. Housed in a durable, powdercoated steel chassis with a heavy-duty XT90 input connector, the DC panel combines sturdy build quality with clean, efficient power management. Includes five pairs of Powerpoles, five rubber protective covers, one XT90 connector, and 10 spare fuses.

NCE-CH0012533-M 50A Capacity DC Power Distribution Panel..... **$192.99**

ASTRON CORPORATION



ASR-RS-35M-AP

RS Power Supplies

These rugged, reliable units are electronically regulated to maintain low ripple at low-line input voltage. They are internally adjustable from 11 to 15 Vdc and include fold-back current limiting to protect your power supply from excessive current and continuous shorted output. Depending on the model, you get features like crowbar over-voltage protection, heavy-duty heat sinks and chassis-mounted fuses for extra protection against overheating and shorting.

"BB" in the part number denotes models that have an integrated battery backup and trickle charger. An "M" in the part number indicates that the units have either dual or single volt/amp meters, and a "AP" in the part number indicates the unit also has Powerpole® connectors on the front panel.

Part Number	Description	Amps Continuous/Peak	Price
ASR-RS-4A	Power Supply	3A/4A at 13.8VDC	**$99.95**
ASR-RS-4L	Supply, Cigarette Port	3A/4A at 13.8VDC	**$104.95**
ASR-RS-5A	Power Supply	4A/5A at 13.8VDC	**$106.95**
ASR-RS-12A	Power Supply	9A/12A at 13.8VDC	**$195.95**
ASR-RS-12M	Supply with Switchable Meter	9A/12A at 13.8VDC	**$222.95**
ASR-RS-12A-BB	Supply with Battery Backup	9A/12A at 13.8VDC	**$218.95**
ASR-RS-12M-BB	Supply with Meter and Backup	9A/12A at 13.8VDC	**$250.95**
ASR-RS-20A	Power Supply	16A/20A at 13.8VDC	**$234.95**
ASR-RS-20M-AP	Supply with Dual Meters	16A/20A at 13.8VDC	**$286.95**
ASR-RS-20A-BB	Supply with Battery Backup	16A/20A at 13.8VDC	**$268.95**
ASR-RS-20M-BB	Supply with Meters and Backup	16A/20A at 13.8VDC	**$318.95**
ASR-RS-35A-AP	Power Supply	25A/35A at 13.8VDC	**$371.95**
ASR-RS-35M-AP	Supply with Dual Meters	25A/35A at 13.8VDC	**$419.95**
ASR-RS-50A	Power Supply	37A/50A at 13.8VDC	**$538.95**
ASR-RS-50M-AP	Supply with Dual Meters	37A/50A at 13.8VDC	**$592.95**
ASR-RS-70A	Power Supply	57A/70A at 13.8VDC	**$613.95**
ASR-RS-70M-AP	Supply with Dual Meters	57A/70A at 13.8VDC	**$688.95**

ASTRON CORPORATION



ASR-VS-35M-AP

VS Power Supplies

Astron's VS line of 13.8VDC power supplies have the same reliable performance of the RS line. Models also feature front-panel knobs, so you can easily adjust output from 2 to 15VDC. They include separate front-panel volt and amp meters.

Part Number	Description	Amps Continuous/Peak	Price
ASR-VS-12M-AP	Power Supply	9A/12A at 13.8VDC	**$268.95**
ASR-VS-35M-AP	Power Supply	25A/35A at 13.8VDC	**$453.95**
ASR-VS-50M-AP	Power Supply	37A/50A at 13.8VDC	**$624.95**
ASR-VS-70M-AP	Power Supply	57A/70A at 13.8VDC	**$706.95**

Hum's the Word.

A proper ground system is absolutely crucial in helping to squash out electrical noise in your Ham station. Don't just address grounding at your tower or antenna. Make sure you've got your shack gear all connected to a single point ground too. Check out our Grounding & Lightning Protection products.



WMT-58315-1043



WMT-58307-1037

RIGrunner DC Outlet Panels

Got a pile of spaghetti where your DC power cables should be? These RIGrunner Outlet Panels will clean up your shack, while giving you some advanced features in the process. Each outlet is fused for protection and ensures you have reliable power distribution for your gear. Most provide 40 amps of maximum output current and include Powerpole® connectors and fuses. "U" models have USB ports, handy for charging your smartphone.



WMT-58307-1035

If you're installing one in a vehicle, check out the 4010S+ models, which feature programmable voltage thresholds and automatic on/off parameters, plus a built-in PWRguard.

Part Number	Description	Voltage Alarm	Power Cables	Powerpole® Connections	Price
WMT-58301-1028	RIGrunner 8012, 80A Input	Yes	8 AWG, 6'	12	**$204.95**
WMT-58303-1601	RIGrunner 4010S+, PWRguard	Yes	Sold Separately	10	**$179.95**
WMT-58303-1609	RIGrunner 4010S+, PWRguard	Yes	10 AWG, 6'	10	**$199.95**
WMT-58307-1034	RIGrunner 4008	Yes	10 AWG, 6'	8	**$129.95**
WMT-58307-1035	RIGrunner 4008	No	Sold Separately	8	**$114.95**
WMT-58307-1036	RIGrunner 4008H, Side Connectors	No	10 AWG, 6'	8	**$134.95**
WMT-58307-1037	RIGrunner 4008H, Side Connectors	No	Sold Separately	8	**$114.95**
WMT-58307-1124	RIGrunner 4008, -48 Vdc Negative	Yes	Sold Separately	8	**$174.95**
WMT-58307-1126	RIGrunner 4008, -48 Vdc Positive	Yes	Sold Separately	8	**$134.95**
WMT-58307-1125	RIGrunner 4008, -24 Vdc Positive	Yes	Sold Separately	8	**$134.95**
WMT-58312-1038	RIGrunner 4005	No	10 AWG, 6'	5	**$94.95**
WMT-58312-1039	RIGrunner 4005	No	Sold Separately	5	**$79.95**
WMT-58312-1040	RIGrunner 4005, Side Connectors	No	10 AWG, 6'	5	**$94.95**
WMT-58312-1041	RIGrunner 4005, Side Connectors	No	Sold Separately	5	**$79.95**
WMT-58315-1042	RIGrunner 4004U, 2 USB Charge Ports	No	10 AWG, 6'	4	**$104.95**
WMT-58315-1043	RIGrunner 4004U, 2 USB Charge Ports	No	Sold Separately	4	**$89.95**



4-Way and Fuser-6 DC Distribution Boxes

SOTABeams' lightweight and portable 4-Way DC Distribution Boxes provide a convenient way to power three devices using Anderson PowerPoles®. Simply attach your DC input cable to one set of connectors to power the other three sets. A fused input cable is recommended. With one input and 5 outputs, Fuser-6 DC Distribution Boxes make light work of connecting five accessories to your power source. All connectors are individually fused, and boards use genuine Anderson PCB contacts for lower contact resistance and improved reliability. Both models have a 25 amp continuous rating (total) and a 30 amp momentary surge rating. Choose from preassembled/tested models or easy-build kits. **For more features and benefits, enter "SBM Boxes" at DXEngineering.com.**

SBM-4-WAY-BLT 4-Way PowerPoles Connector Box, Preassembled..... **$45.99**

SBM-4-WAY-KIT 4-Way PowerPoles Connector Box, Kit..... **$37.99**

SBM-FUSER-6-BLT Fuser-6 PowerPoles Connector Box, Preassembled..... **$85.99**

SBM-FUSER-6-KIT Fuser-6 PowerPoles Connector Box, Kit..... **$69.99**



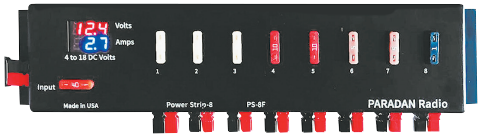
Power Strip 4 Plus

Looking for a reliable 40 amp metered power strip to tidy up your station or toss in your Go-Kit? Paradan's Power Strip 4 Plus makes a great choice. Housed in a sturdy metal case, the rugged unit permits easy connections to the four Anderson Powerpole outputs. Its bright LED accurately displays both the DC voltage and the total current in amperes. Anderson locking clips may be used to secure the connections. This RF-filtered strip comes with 5 Anderson Powerpole pairs.

PDN-PS4-PLUS 40 Amp Metered Power Strip 4 Plus..... **$95.00**



PDN-PS6



PDN-PS-8F

Power Strip 6

Keep your shack tidy and your Go-Kit well-equipped with the Paradan Radio Power Strip 6 metered DC distribution panel. Housed in a sturdy metal case, the RF filtered strip permits easy connections of power cables to the six bottom-mount Anderson Powerpole outputs. The input is fused to 40A. Bright 3-digit, 7-segment LEDs accurately display the DC voltage and total current. Seven pairs of Powerpoles and 40A ATC fuses are included. Any rating ATC fuses may be used as needed.

PDN-PS6 40 Amp Power Strip, 6 Outputs..... **$120.00**

Power Strip 8

This DC distribution panel comes pre-installed with a 40A fused Powerpole input socket and eight fused Powerpole output sockets: (3) 25A, (2) 10A, (2) 5A, and (1) 1A. This allows for easy fan-out in a horizontal project.

PDN-PS-8F 40 Amp Power Strip, 8 Outputs..... **$200.00**



Jumper Test Leads

These 120" long, retractable jumper test leads come with alligator clip terminals to ensure secure circuit testing. Featuring 18-gauge copper wire, the three color-coded leads can be used for bypassing lengths of wire and simulating switches. The insulated clips provide sound connections for simpler testing. Allows for a maximum of 10 amps unwound or 6 amps wound.

SUM-900044 Retractable Jumper Test Leads **$21.99**



Solderless Nylon Terminal Kit

A great kit to have in your shack, this kit includes connectors that are tougher, better insulated and more corrosion-resistant than ordinary store-bought ones. You get 180 connectors for 22- to 18- and 12- to 10-gauge wire ranges, all packaged in a neat storage case.

SUM-890093 Solderless Nylon Terminal Kit **$33.99**

Electrical Fuses

DX Engineering carries a nice selection of high-quality Summit Racing Electrical Fuses from 5 to 60 amps. They're available in regular (ATO/ATC) or Maxi (APX) styles, individually or in sets of 5.

SUM-900287 40 Amp, Maxi, Each..... **$4.99**
SUM-900288 60 Amp, Maxi, Each..... **$4.99**
SUM-900280 5 Amp, ATO/ATC, Set of 5..... **$4.99**
SUM-900281 10 Amp, ATO/ATC, Set of 5..... **$4.99**
SUM-900282 15 Amp, ATO/ATC, Set of 5..... **$4.99**
SUM-900283 20 Amp, ATO/ATC, Set of 5..... **$4.99**
SUM-900284 30 Amp, ATO/ATC, Set of 5..... **$6.99**



DXEngineering.com is loaded with detailed photos, specs, videos, and more!

⚠ WARNING: For Proposition 65 information, see p. 3

Assorted Powerpole and Crimp Tool Kit



No shack or workbench is complete without this all-in-one solution for crimping Powerpole connectors. This kit includes a 15-45CRIMP Powerpole Crimping Tool and a 15-45CASE 155-piece assorted Powerpole connector kit with housings, contacts, and accessories. Additionally, it comes with a heavy-duty nylon tactical bag designed to organize and protect your Powerpole gear. (Not compatible with DX Engineering crimp dies.) Kit includes:

- 20 Red Housings (1327)
- 5 Gray Retention Clips (RC-G)
- 5 Safety Yellow Retention Clips (RC-Y)
- 10 Permanently Bonded Red/Black Housings
- 16 15A Contacts (1332-BK, for 16, 18, and 20 AWG)
- 38 30A Contacts (ASMPP30-1X2-RK, for 12 and 14 AWG)
- 16 45A Contacts (261G2-LPBK, for 10 and 12 AWG)
- 20 Black Housings (1327G6)
- 10 Adhesive Cable Tie Bases
- 5 Dust Covers (PP-CVR)
- 10 18 lb.-Rated Cable Ties

VLT-15-45GOBAG Powerpole and Crimp Tool Kit..... **$99.99**

Powerpole Extension Cables

DX Engineering carries high-quality 10, 12, and 14 AWG Powerpole Extension Cables in lengths of 2, 6, 10, and 25 feet. **Pricing ranges from $7.99 to $42.99. Enter "VLT-EXPP" at DXEngineering.com for the full lineup.**

5-Port DC Power Distribution Block



This distribution block lets you make up to four Powerpole connections with just one input with virtually no voltage loss. It features a maximum continuous current of 50A and maximum voltage of 48VDC. This versatile block is constructed with authentic Anderson Powerpole housings and contacts, ensuring compatibility with all 15A, 30A, and 45A Powerpole connectors.

VLT-PD5-PLUS 5-Port DC Power Distribution Block **$29.99**

DC-to-DC LiFePO4 In-Vehicle Battery Charger



VLT-PP-QUICK



VLT-DC-8A-LFP

Intended for use with Bioenno Power or equivalent batteries, this versatile DC-to-DC charger is specifically designed for charging 12V LiFePO4 (Lithium Iron Phosphate) batteries using a vehicle's 12V system. It features a broad input voltage range of 8-36VDC, allowing for the use of various power sources and offers user-selectable charging currents of 2A, 4A, or 8A, making it suitable for batteries ranging from 3 Ah to over 70 Ah. Its wide input voltage range makes the charger compatible with 12V and 24V vehicle systems. Additionally, it can also be powered by a desktop power supply or any other DC power source that provides between 8-36VDC. The DC-8A-LFP features 30A Powerpole input and output connectors; an IP68 waterproof-sealed rating; and various protections.

VLT-DC-8A-LFP DC-to-DC Charger LiFePO4 Battery Charger..... **$69.99**

2.1mm Plug to Powerpole DC Power Cables

12 Volt Power offers a range of premium DC power cable assemblies designed to supply power to HF transceivers, FM transceivers, and various electronic devices from multiple power sources and connector types.

VLT-DC-21-PP 2.1mm Straight Plug to Powerpole, 18 AWG, 6'..... **$7.99**
VLT-DC-25-PP 2.5mm Straight Plug to Powerpole, 18 AWG, 6'..... **$7.99**
VLT-DCRA-21-PP 2.1mm Right Angle Plug to Powerpole, 18 AWG, 6'..... **$7.99**
VLT-DCRA-25-PP 2.5mm Right Angle Plug to Powerpole, 18 AWG, 6'..... **$7.99**

DC Power Assemblies for HF Transceivers/PowerPole Quick Connector/Splitter Cable

The Powerpole Quick Connector allows you to quickly add a pair of Powerpole connectors to your pre-stripped wire leads without the need for a crimping tool. Simply insert your pre-stripped wire and lock down the connector.

VLT-HF4-PP-1 Powerpole PP-30 to HF 4-Pin, 20A, 14 AWG, 1' **$15.99**
VLT-HF4-PP-25A Powerpole PP-30 to HF 4-Pin, 25A, ATO/ATC Inline Fuses, 12 AWG, 1' **$21.99**
VLT-PP-QUICK Powerpole Quick Connector for 12-18 AWG Wire, 30A..... **$11.99**
VLT-PP-SPLITTER Powerpole "Y" Splitter Cable, 14 AWG, 30A, 6"..... **$13.99**

DC Inline Alternator Noise Filters for VHF/UHF Mobile Radios

VLT-TVP-LNF-PP Noise Filter, OEM-Style Connectors **$19.99**
VLT-TVP-LNF-PP-OEM Noise Filter w/ Powerpole Connectors **$19.99**

1/4" Gold Ring Terminal Assemblies/T-Style Connector to Fused Powerpole

VLT-TVP-RPFH-10 Ring to Powerpole, 40A ATO-ATC Inline Fuse, 10 AWG, Pair; **$15.99**
VLT-TVP-RPFH-12 Ring to Powerpole, 15A ATO-ATC Inline Fuse, 12 AWG, Pair; **$14.99**
VLT-TVP-RTFH-12 Ring to OEM-T, 15A ATO-ATC Inline Fuse, 12 AWG, Pair **$15.99**
VLT-TVP-TPFH-12 Fused Powerpole PP-30 to T-Style Connector, 2 Inline Fuse Holders, 2 15A Fuses, 12 AWG **$15.99**

Panel Mount Chargers

VLT-PM-USB56W Panel Mount Combination USB A 18W USB C 65W Fast Device Charger with On/Off Button **$31.99**
VLT-PM-USBQC Panel Mount Combination USB A 18W USB C 36W Fast Device Charger **$27.99**

Powerpoles®





PPA-PP45-10PK

Powerpoles are the industry standard connectors for low voltage DC power applications. You'll find Powerpoles spec'd for a variety of government projects and they're in commercial broadcast stations all over the planet. They are the standard for ARES® and RACES units. The Powerpoles listed below safely handle 15-45 amps and are compatible with 20 to 10 AWG zip cord. In standard form, Powerpoles come disassembled, but there are also ultrasonically welded preassembled pairs that simplify installation.

DX Engineering carries virtually any Powerpole variant you'll need, along with accessories, zip cord, and the proper assembly tools.

Part Number	Description	Qty	Price
DXE-POWERBOX-C1	Connectors, Contacts, Clips, and Tool in Special Storage Case	1	**$138.39**
PPA-1327G7-10PK	Standard Connectors, White	10	**$10.90**
PPA-1327G16-10PK	Standard Connectors, Yellow	10	**$10.99**
PPA-1327-10PK	Standard Connectors, Red	10	**$10.99**
PPA-1327G6-10PK	Standard Connectors, Black	10	**$10.99**
PPA-STDHSG-11PK	Standard Connectors, Assorted Colors	11	**$6.99**
PPA-PP15-10PK	Pair, 10 Red + 10 Black, for ≤ 16 AWG Wire	20	**$19.99**
PPA-PP45-10PK	Pair, 10 Red + 10 Black, for 10-14 AWG Wire	20	**$29.99**
PPA-PP45-25PK	Pair, 25 Red + 25 Black, for 10-14 AWG Wire	50	**$69.99**
PPA-PP30-10PK	Pair, 10 Red + 10 Black, for 12-16 AWG Wire	20	**$25.99**
PPA-PP30-25PK	Pair, 25 Red + 25 Black, for 12-16 AWG Wire	50	**$49.99**
PPA-PP30-50PK	Pair, 50 Red + 50 Black, for 12-16 AWG Wire	100	**$89.99**
PPA-PP30-100PK	Pair, 100 Red + 100 Black, for 12-16 AWG Wire	200	**$175.99**
PPA-WP30-10PK	Preassembled Welded Housing Pair, 10, for 12-16 AWG Wire	20	**$18.49**
PPA-WP30-40PK	Preassembled Welded Housing Pair, 40, for 12-16 AWG Wire	80	**$51.99**
PPA-ASMPP30-8PK	Powerpole Assembly, 2 Wire Red/Black, Single Row	8	**$9.49**
PPA-261G2-25PK	Contact Terminals Only, 45A, for 10-14 AWG Wire	25	**$22.99**
PPA-261G2-50PK	Contact Terminals Only, 45A, for 10-14 AWG Wire	50	**$43.99**
PPA-1331-25PK	Contact Terminals Only, 30A, for 12-16 AWG Wire	25	**$9.50**
PPA-1331-50PK	Contact Terminals Only, 30A, for 12-16 AWG Wire	50	**$19.99**
PPA-1332-25PK	Contact Terminals Only, 15A, for 16-20 AWG Wire	25	**$9.99**
PPA-1332-50PK	Contact Terminals Only, 15A, for 16-20 AWG Wire	50	**$19.99**
PPA-200G1L-25PK	Contact Terminals, 45A, for 10-14 AWG High Stranding Wire	25	**$27.99**
PPA-PCLIP-25PK	Retention Clips	25	**$23.99**

Powerpole® Insertion or Extraction Tool



Use this specialized tool to properly install the metal contacts into your Powerpole connectors. It's compatible with PP15 to PP45 type connectors.

PPA-111038G2 Powerpole Insertion or Extraction Tool **$9.99**



Ultra-Grip 2 Crimp Connector Hand Tool for Powerpoles®

Installing Powerpole® connectors? This tool ensures a professional-quality crimp on your coaxial cable. The crimp tool comes with dies for 15, 30 and 45 amp Anderson Powerpole connectors. Additional dies and a case are available separately.

DXE-UT-CRMP2-PWR Ultra-Grip 2 Crimp Connector Tool for Powerpoles **$67.98**

DX Engineering carries equipment from more than 180 top manufacturers!

⚠ **WARNING:** For Proposition 65 information, see p. 3

PARADAN radio



DC Gate 40 Plus Battery Backup System

This 13.8 volt battery backup system is perfect for powering your station, Go-Kit, or RV. It can output up to 40 amps from either the power supply or the battery. In case of lost AC power, the diode gate switches instantaneously from the power supply to the battery. When the power returns, the built-in 2-amp rapid charger restores the charge and keeps the battery fresh. Solidly made on a heatsink, the unit comes with three Powerpole pairs.

PDN-DCGATE40PLUS DC Gate 40 Plus Battery Backup System **$120.00**

West Mountain RADIO

Epic PWRgate Battery Backup System



This third-generation power gate product from West Mountain Radio delivers advanced technology and low power loss with maximum flexibility to charge modern batteries. It features:

- 12 volt backup power system rated at 40 amperes continuous from either a power supply or battery
- Connected equipment instantly switches to battery during a power blackout or power supply failure
- Forward voltage drop of only 0.05 volts
- USB port access to monitor system or to change charge parameters
- Supports smart charging of either lead acid or Li-Ion battery charging up to 10A
- Direct solar panel input for battery charging (all chemistries)

Enter "West Epic" at DXEngineering.com for more details.

WMT-58404-1795 Epic PWRgate Battery Backup System **$189.95**

West Mountain RADIO

PWRcheck+ DC Power Analyzer



This highly accurate and versatile device handles eight display modes including voltage, current flow in either direction, wattage and amp-hours. The PWRcheck+ measures 0V* to 60V (less than 8V requires USB power to PWRcheck+) 40A continuous load. Its vibrant LCD color touchscreen displays data in digital, analog and bar graph formats. Downloadable software lets you easily program every aspect of PWRcheck+ operation, including data logging rate, display formats, and alarm conditions. It also enables you to display current, voltage, wattage and amp-hours in real time.
*PWRcheck+ requires a minimum 50mA load to measure voltages below 4.5V.

WMT-58430-1564 DC Power Analyzer..... **$184.95**

West Mountain RADIO

Super PWRgate PG40S



The Super PWRgate maintains a steady stream of up to 40A continuous from your power supply or battery and will instantly switch to battery backup if you lose power—you won't even notice the switchover. It also has a built-in battery charger to ensure that your battery is ready when you need it.

WMT-58403-1046 Super PWRgate PG40S **$139.95**

PWRguard Plus

West Mountain RADIO



If your power supply is rapidly changing, the PWRguard Plus can sense it and shut the system down, preventing expensive damage to your equipment. You can set the voltage trip threshold and the PWRguard has in-rush current protection as an extra precaution against damage. It's rated for a maximum of 40 amps (peak) and indicator LEDs let you know it is working.

WMT-58402-1045 PWRguard Plus **$114.95**

ISOpwr

West Mountain RADIO



Turn your vehicle into a battery charger. The ISOpwr lets you connect an additional battery to your vehicle's battery to charge both of them when the alternator is running. When the alternator stops, this unit isolates your main battery to prevent it from draining. It's an essential tool for power-hungry mobile installations like an ARES® or RACES command station, or contest mobile rover.

WMT-58401-1044 ISOpwr **$119.95**

PARADAN radio

Mobile LiFePO4 Battery Charger



This device lets you use any cigarette lighter/accessory power socket in your car, truck, or boat to charge 12V Lithium Ferrous Phosphate (LiFePO4) batteries. The vehicle's 12V system is converted into 14.2V while limiting the current to 3 amps. The unit's bright LED meter displays the battery's voltage and charging amperage. Two output wires (one with Powerpole plug and the other with DC barrel power plug) are included. When fully charged, the current reads close to zero and the battery's float voltage is then displayed. Housed in a sturdy aluminum case, the charger lets you power equipment using the Powerpole plug while the battery is being charged.

PDN-BAT-CHARGER Mobile LiFePO4 Battery Charger..... **$100.00**

CBA V—Computerized Battery Analyzer

West Mountain RADIO



From the innovators at West Mountain Radio comes this versatile device designed for advanced and highly accurate scientific battery performance assessments, offering significant upgrades over past CBA models. Execute fast tests under real-world load conditions, up to 150 watts or 40 amps maximum; high-voltage testing at up to 55 V; power profile tests (increase current at user's rate to see how voltage/power responds), useful for testing maximum power output of a power supply or solar cell; true constant current battery capacity test with results graphically displayed; multiple discharge tests that can use watts as a parameter; and much more. Each individually calibrated unit includes an on-board computer that performs accurate measurements with 12-bit effective resolution, remote voltage sensing for greater accuracy, an array of built-in safety features for battery protection, and free software for valuable data analysis.

WMT-58250-1852 Computerized Battery Analyzer..... **$189.95**

ASTRON CORPORATION

Battery Backup Module

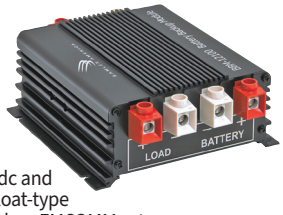


Add battery backup to your shack. Just connect this unit between your power supply and a wet or SLA standby battery, and it acts as a float charger to keep the battery ready. If your AC power fails, it will automatically switch to the battery in an instant. Fuses protect the circuit during battery charge/discharge and a front LED indicates the charging status. Maximum battery load is 30A and the unit limits charging at 3.6A. The module works with 12- and 24-volt systems.

ASR-BB-30M Battery Backup Module..... **$93.95**

samlexamerica

Battery Backup Module



Connect this module to your power supply and battery to make a battery backup system. When your AC power fails, the unit will instantly switch to your battery. When the AC power is restored, it switches back to charging. The module works with voltages from below 12 Vdc, up to 28 Vdc and can handle a maximum output current of 100 amps. This float-type battery charger can be an essential backbone for your shack or EMCOMM setup.

SXA-08081 BBM-12100 Battery Backup Module..... **$200.80**

West Mountain RADIO

Temporary Power Node



Perfect for Field Day, EMCOMM, temporary installations or when you just need an extra outlet, this node gives you four pairs of paralleled Anderson Powerpole® connectors. Total rated current is 40A at 12 Vdc, just make sure your DC power wire gauge matches your power demands. Retaining clips are included.

WMT-58519-1067 Temporary Power Node..... **$19.95**

DX ENGINEERING

Power Wire, 2 Conductor Zip Cord



Zip Cord is two-conductor cord which is typically used for low voltage DC power wiring circuits. The red and black colors make it simple to identify polarity for DC applications.

DXE-PW-8	Power Wire, 8-Gauge	per foot **$1.49**
DXE-PW-10	Power Wire, 10-Gauge	per foot **$2.12**
DXE-PW-12	Power Wire, 12-Gauge	per foot **$1.82**
DXE-PW-14	Power Wire, 14-Gauge	per foot **$0.89**
DXE-PW-16	Power Wire, 16-Gauge	per foot **$0.55**
DXE-PW-18	Power Wire, 18-Gauge	per foot **$0.47**

Portable Solar Panel, Charge Controller, and Battery Packages



DX Engineering makes it easy to start using the sun to power your Field Day, POTA, and other remote or backyard adventures. We've grouped Bioenno Power foldable solar panels (28-100W), 20A charge controllers, and LiFePO4 (Lithium Iron Phosphate) batteries into kits that take the guesswork out of finding compatible gear to go solar with your portable ops. Some kits include MPPT (Maximum Power Point Tracking) charge controllers which regulate the charge of the battery bank to optimize voltage match between solar panel and battery.



BIP-SOL-3AB	28W Solar Panel, 3Ah Battery (7A, 84W), Controller	**$217.96**
BIP-SOL-3W	28W Solar Panel, 3Ah Battery (6A, 72W), Controller	**$217.96**
BIP-SOL-4-5W	28W Solar Panel, 4.5Ah Battery (9A, 108W), Controller	**$232.96**
BIP-SOL-6A	40W Solar Panel, 6Ah Battery (12A, 144W), MPPT Controller	**$307.96**
BIP-SOL-9A	40W Solar Panel, 9Ah Battery (12A, 288W), MPPT Controller	**$327.96**
BIP-SOL-1212A	60W Solar Panel, 12Ah Battery (20A, 240W), MPPT Controller	**$364.97**
BIP-SOL-15A	60W Solar Panel, 15Ah Battery (30A, 360W), MPPT Controller	**$389.97**
BIP-SOL-20A	100W Solar Panel, 20Ah Battery (40A, 480W), MPPT Controller;	**$492.97**
BIP-SOL-30AS	100W Solar Panel, 30Ah Battery (60A, 360W), MPPT Controller	**$579.97**

Cable for Connecting Solar Panels

This assembly includes three 50A SB50 Powerpole connectors for connecting two solar panels together.



BIP-Y-CABLE Cable for Connecting Solar Panels **$24.99**

PowerFilm SOLAR — Foldable & Rollable Solar Panels





PWF-R-14

These thin, flexible, high-tech panels from PowerFilm are designed to generate electricity even in cloudy, shady, and hazy environments, delivering proven performance in low-light conditions. They are perfect for keeping your batteries topped off when operating portable or for any activity where you want to keep batteries charged without the noise of a generator. The weather-resistant nylon fabric on the back side of the panels provides protection whether the panel is in use or being stored. Grommets on the corners of the panel keep it secure to prevent damage in high winds.

A charge controller is not required if the battery capacity is 100x greater than the panel output. For example, a 100Ah battery would not need a charge controller if the panel output is 1A or less. If a charge controller is required, it should be sized according to the output of the panel. Panels weigh from 0.70 to 7.5 lbs. and measure from 25.3" W x 33.7" L to 57.7" W x 172" L. **Enter "PowerFilm" at DXEngineering.com for the full lineup.**

Part Number	Description	Power Specifications	Price
PWF-F16-1200	Foldable	20W/15.4V/1.2A	**$439.00**
PWF-F16-1800	Foldable	30W/15.4V/1.8A	**$599.00**
PWF-F16-3600	Foldable	60W/15.4V/3.6A	**$1,119.00**
PWF-F16-3600L	Foldable w/Overlaminate	60W/15.4V/3.6A	**$1,369.00**
PWF-F16-6000	Foldable	100W/15.4V/6.0A	**$1,729.00**
PWF-F16-7200	Foldable	120W/15.4V/7.2A	**$2,059.00**
PWF-R-7	Rollable	7W/15.4V/0.45A	**$249.00**
PWF-R-14	Rollable	14W/15. 4V/0.9A	**$349.00**
PWF-R-21	Rollable	21W/15. 4V/1.35A	**$449.00**
PWF-R-28	Rollable	28W/15. 4V/1.8A	**$569.00**
PWF-R-42	Rollable	42W/15.4V/2.7A	**$819.00**
PWF-R-42-NG	Rollable w/No Grommets	42W/15.4V/2.7A	**$819.00**
PWF-R-60	Rollable	60W/15.4V/3.9A	**$1,129.00**
PWF-R-60-NG	Rollable w/No Grommets	60W/15.4V/3.9A	**$1,129.00**

200 Amp Inline DC Power Analyzer and Watt Meter Kit



This low-power-consumption device provides high-precision reading of voltage, current, watts, amp/hours, and watt/hours. Capable of measurements of 4.8-60 VDC and up to 200 amps, the meter is powered by the source voltage it measures and will display accumulated amp/hour and watt/hour readings until the meter is shut down or restarted. By connecting a separate battery or power source to the optional Auxiliary Power Connector, the meter will precisely measure the complete range of 0-60 VDC. The 16x2 backlit LCD screen is easy to read, even in direct sunlight. Kit comes with Anderson Powerpole connectors. Also available without connectors.

DMV-DC-VAWM-200P Inline DC Power Analyzer/Watt Meter Kit **$44.98**

Bioenno Power — LiFePO4 Batteries, Chargers, Solar Panels, and Solar Charge Controllers





BIP-BSP-28

Hams everywhere depend on the team at Bioenno Power for their line of trusted products that make portable operating a pleasure. Bioenno's LiFePO4 (Lithium Iron Phosphate) batteries offer big advantages over other options, including lower weight, increased capacity, enhanced power delivery, longer life, quiet EMI/RFI-free performance, and built-in module for protection against overcurrent, undervoltage, and overvoltage. Plus, all batteries come with the company's True Lithium Capacity Insurance Policy, meaning Bioenno inspects and quality checks every battery when it's stocked into inventory and when it's shipped.

LiFePO4 Battery Plus Charger Packages

GO Portable

DX Engineering makes it easy for you to get up and running quickly with these combos featuring a 12VDC LiFePO4 battery paired with the correct 14.6VDC, 110-220VAC AC to DC charger. Batteries come in a PVC pack or ABS sealed case and have Powerpole discharge connector. Note: These batteries should be charged with a LiFePO4 compatible charger. SLA chargers are not compatible.

BIP-BLF-1203AB-P	3 Ah, 7A, 84W, .88 Lbs.; 1502 Charger, 2A	**$71.98**
BIP-BLF-1203W-P	3 Ah, 6A, 72W, .88 Lbs.; 1502 Charger, 2A	**$71.98**
BIP-BLF-12045W-P	4.5 Ah, 9A, 108W, 1.10 Lbs.; 1502 Charger, 2A	**$86.98**
BIP-BLF-1206A-P	6 Ah, 12A, 144W, 1.54 Lbs.; 1502 Charger, 2A	**$101.98**
BIP-BLF-1208LB-P	8 Ah, 12A, 2.43 Lbs., ABS Sealed; 1502 Charger, 2A	**$116.98**
BIP-BLF-1209A-P	9 Ah, 12A, 288W, 2.65 Lbs.; 1502 Charger, 2A	**$121.98**
BIP-BLF-1209WS-P	9 Ah, 18A, 216W, 2.60 Lbs.; 1502 Charger, 2A	**$121.98**
BIP-BLF-1212A-P	12 Ah, 20A, 240W, 3.31 Lbs.; 1502 Charger, 2A	**$146.98**
BIP-BLF-1212AS-P	12 Ah, 20A, 240W, 3.53 Lbs., ABS Sealed; 1502 Charger, 2A	**$146.98**
BIP-BLF-1215A-P	15 Ah, 30A, 360W, 4.19 Lbs.; 1504 Charger, 4A	**$174.98**
BIP-BLF-1215AS-P	15 Ah, 30A, 360W, 4.30 Lbs., ABS Sealed; 1504 Charger, 4A	**$174.98**
BIP-BLF-1220A-P	20 Ah, 40A, 480W, 5.40 Lbs.; 1504 Charger, 4A	**$217.98**
BIP-BLF-1220AS-P	20 Ah, 40A, 480W, 5.73 Lbs., ABS Sealed; 1504 Charger, 4A	**$229.98**
BIP-BLF-1230A-P	30 Ah, 60A, 360W, 7.94 Lbs.; 1506 Charger, 6A	**$318.98**
BIP-B-SB50	SB50 50A Gray Powerpole Connector	**$13.99**
BIP-BA-SB50-BARE	SB50 Powerpole Connector with Bare Wire	**$14.99**

LiFePO4 Batteries



Bioenno LiFePO4 batteries can also be purchased individually. Individual batteries can be found at DXEngineering.com by entering the combo part numbers listed above without the letter P. **Pricing from $49.99 to $279.99.**

Battery Chargers

AC to DC chargers for 12V LiFePO4 batteries can also be purchased individually.

BIP-BPC-1502CLIP	LiFePO4 Battery Charger, 2A Output, Alligator Clips	**$21.99**
BIP-BPC-1502DC	LiFePO4 Battery Charger, 2A Output, DC Plug	**$21.99**
BIP-BPC-1504CLIP	LiFePO4 Battery Charger, 4A Output, Alligator Clips	**$24.99**
BIP-BPC-1504DC	LiFePO4 Battery Charger, 4A Output, DC Plug	**$24.99**
BIP-BPC-1506A	LiFePO4 Battery Charger, 6A Output, Powerpole PP45	**$38.99**
BIP-BA-PP45-SB50	Battery Charger Adapter Cable, Powerole PP45 to SB50	**$14.99**

Foldable Solar Panels

These easy-to-use, large-panel, high-output monocrystalline panel systems are perfect for Field Day and other applications when you're outside with plenty of sunlight but no access to the power grid. Enjoy clean, modulated, and EMI/RFI-free silent output. Note: Always use a Solar Panel with a matching Solar Charge Controller (sold separately, below) when used in conjunction with a battery.

BIP-BSP-28	Solar Panel, 28W, 12-18VDC, 1.55A Max Current	**$104.99**
BIP-BSP-40-LITE	Solar Panel, 40W, 15-18VDC, 2.22A Max Current	**$124.99**
BIP-BSP-60-LITE	Solar Panel, 60W, 18VDC, 3.33A Max Current	**$149.99**
BIP-BSP-100-LITE	Solar Panel, 100W, 18VDC, 5.56A Max Current	**$209.99**
BIP-BSP-120	Solar Panel, 120W, 18VDC, 6.7A Max Current	**$234.99**

Solar Charge Controllers

These versatile controllers are designed for use in solar systems to charge LiFePO4, AGM, or SLA batteries. Featuring an LCD that shows usage status of the system, units provide a regulated output voltage to charge batteries and maintain loads. All units accept 12VDC or 24VDC input from solar panels. Model BIP-SC-4830JUD accepts 12, 24, 36, or 48VDC.

BIP-SC-122420JUD	Solar Charge Controller, 20A, 12-50VDC Input	**$49.99**
BIP-SC-4830JUD	Solar Charge Controller, 30A, 17-50VDC Input	**$69.90**
BIP-SC-122420NE	Solar Charge Controller, 20A, 100VDC Max Input	**$89.99**
BIP-SC-122430NE	Solar Charge Controller, 30A, 75VDC Max Input	**$169.99**

BLUE SEA SYSTEMS



Mini OLED Digital Monitors

DX Engineering is pleased to carry a selection of test equipment from Blue Sea Systems designed to measure essential electrical system parameters around the shack. Choose from three highly accurate, waterproof, daylight-readable, reverse-polarity-protected mini OLED monitors perfect for mounting just about anywhere. Monitors mount in a 1-1/8" diameter hole.

BEE-1732-BSS Mini OLED Ammeter, -100A to 100A DC **$76.99**
BEE-1733-BSS Mini OLED DC Voltmeter, 8 to 36VDC Input Voltage **$40.99**
BEE-1741-BSS Mini OLED Temp Monitor, C/F, -40°-158° F **$58.99**

Mini 5-Circuit 100A Ground Bus Bar with Cover



Ideal for limited-space applications, this compact ground bus bar features five screw terminals (#8-32) and two terminal studs (#10-32), maximum voltage of 300VDC/48VAC, 100A continuous rating, tin-plated copper bus, UL 94-V0-rated glass-reinforced thermoplastic base, and clear polycarbonate cover.

BEE-2314-BSS Mini 5-Circuit Ground Bus Bar **$11.99**

ST Blade Fuse Blocks with Cover



Consolidate branch circuits and inline fuses with these fuse blocks featuring tin-plated copper buses and fuse clips, write-on circuit labels (20 for 5028-BSS, four for 5045-BSS), and max amperage of 100A per block and 30A per circuit. Blocks accept ring or snap fork type terminals and ATO® and ATC® fast-acting blade fuses. The six-circuit model comes with an easy-to-open pushbutton latch for fast access to fuses.

BEE-5028-BSS ST Blade 6-Circuit Fuse Block w/Cover **$33.99**
BEE-5045-BSS ST Blade 4-Circuit Compact Fuse Block w/Cover **$24.99**

M-Series Mini On/Off Battery Switch with Knob



This device switches a single battery to a single load group. It features a continuous rating of 300A; 48VDC maximum voltage; isolating cover with snap-on sections to protect rear contacts; and case design that allows surface, front panel, or rear panel mounting.

BEE-6006-BSS M-Series Mini On/Off Battery Switch **$26.99**

Deep Cycle Batteries

OPTIMA BY CLARIOS



These AGM 12-volt batteries are ideal for Amateur Radio applications, or for any time you need long-lasting, portable power. They're spill-proof, vibration resistant and will mount in any position. The batteries are safe for indoor use and will survive long periods of slow discharge, making them perfect for EMCOMM trailers. You can also use these batteries in mobile installations that typically draw more power than your alternator can handle.

YellowTop Deep Cycle batteries have SAE automotive-style terminals while BlueTop Deep Cycle Marine batteries have both automotive-style terminals and threaded studs.

Part Number	Description	Cranking Amps at 0° F	Reserve Capacity	BCI Group Number	Price
ULT-9012-021	YellowTop	750	120 Minutes	34	**$329.99**
ULT-9014-045	YellowTop	750	120 Minutes	34/7	**$319.99**
ULT-9050-160	YellowTop	900	155 Minutes	31T	**$419.99**
ULT-9016-103	BlueTop	750	120 Minutes	34	**$339.99**
ULT-9052-161	BlueTop	900	155 Minutes	31	**$399.99**

Deep Cycle Batteries can only be shipped by ground.

Deltran Battery Tender Jr. Chargers and More



Charging power when you need it! Deltran Battery Tender Junior chargers are lightweight, and their compact size makes them great for those hard-to-fit spots. They feature a trickle charger with a brain to ensure that batteries are maintained after charging. The units are available in 8V and 12 V models, as well as a variety of amperage ratings. Additional benefits include a solid state two-color LED that indicates stage of charger, spark-proof reverse polarity protection, 12' output cord, and five-year warranty.

Enter "Deltran" at DXEngineering.com for the full lineup of products, including Deltran's four bank battery charger, two bank battery tender charging station, waterproof charger, dual-port USB charger, and quick-disconnect USB charger.

ECLIPSE™


ETL-MT-1510


ETL-MT-1506



ETL-MT-1280



ETL-MT-1210

Multimeters

DX Engineering carries a great selection of versatile, accurate, and convenient multimeters from Eclipse Tools. The full-featured and portable MT-1210 digital model features a backlit, 3.5-digit LCD screen for easy data reading, diode and transistor tester, continuity buzzer, and low-battery indicator. The MT-1506 pocket-sized model tests diodes/capacitors and measures true RMS AC ranges. The true RMS MT-1510 auto-ranging, 600V "Smart" multimeter features a large backlit LCD and resembles a smartphone so it will fit perfectly in just about any pocket. Required batteries not included on all models.

ETL-MT-1210 Compact Digital Multimeter **$22.49**
ETL-MT-1506 True RMS Pocket Multimeter **$31.99**
ETL-MT-1510 True RMS Pocket Smart Multimeter **$39.99**

Multimeters and Voltage Testers

ECLIPSE™



Eclipse Tools offers testers in a range of price points and functionalities to satisfy any operator. Take your testing up a notch with the MT-1820 multimeter with USB connector. The 3-5/6-digit (5,999 counts) resistance, frequency, capacitance, diode, and transistor tester is rated at 0.5% accuracy, has a dual display with analog bar graph, includes auto/manual ranging, and enables USB data upload. The versatile 3-1/2-digit (1,999 counts) LCR digital MT-5211 measures AC/DC volts, current, resistance, frequency, temperature, continuity, diode, and transistor. It features dual-slope A/D conversion, large backlit LCD, and overload and input protection for worry-free operation. Multimeters require batteries (not included).

ETL-MT-1820 Dual Display Multimeter w/ USB Connector **$102.99**
ETL-MT-5211 Digital LCR Multimeter **$72.99**

Full-Size Multimeter Test Lead



The 41" test lead features a set of comfort grip probes, designed with a protective cap to ensure user comfort and safety. Probes are constructed of high-quality PVC red and black insulated wire with right-angle shrouded banana plugs that are molded directly onto the wire, providing exceptional pull strength and durability. The needle-tip style probes are designed for precision testing. The test lead is compatible with most multimeters that accept safety-style sheath banana plugs.

ETL-MT-9906 Full-Size Multimeter Test Lead, 41" **$7.99**

Voltage Testers


ETL-NT-305N

The NT-305N can detect AC voltages ranging from 70-250VAC and either 12, 36, or 55VDC without the need for metallic contact. Featuring built-in white LED illumination, it's suitable for live wire testing of AC and DC voltages, inductive breakpoint testing, and continuity testing. Requires four 1.5V LR41 (AG3) button cell batteries (not included). The contact-type NT-320 detects voltages from 12-300VAC and is suitable for live wire testing of AC voltages, breakpoint testing, battery polarity, and continuity testing. Requires one 1.5V AAA battery (not included).

ETL-NT-305N Non-Contact Voltage Tester **$5.99**
ETL-NT-320 Contact-Type Voltage Tester **$12.19**

Premium Battery Boxes

SUMMIT RACING EQUIPMENT



If your headlights dim when you transmit with that 500W mobile HF amplifier, you may need an extra battery plus a Summit Racing Premium Battery Box. These strong plastic battery boxes offer solid protection for auxiliary batteries and an extra battery to provide the reserve power that mobile amplifiers often need. The sealed-type boxes protect auxiliary batteries from moisture, dirt, and debris, while the vent tube expels battery gasses to prevent buildup. In-cab or in-truck mounting is possible if proper vent-tube installation is followed. User customizes each unit per vehicle application by drilling the battery box for cable and vent-tube access. Inside battery box dimensions are approximately 10.75" L x 8.5" W x 9" H. Mounting hardware included.

SUM-G1231 Premium Battery Box, Black **$93.99**
SUM-G1230-K Battery Relocation Kit, Red **$214.98**

For new hams, check out our Getting Started HT, Mobile, and Base Radio Packages!

⚠ **WARNING:** For Proposition 65 information, see p. 3

RigExpert

Antenna Analyzers



Use these analyzers to test your antennas and feedlines. Enjoy using an affordable, professional-grade tool for antenna building, troubleshooting and repairs. Professionals have trusted RigExpert analyzers since 2003, yet their simple interfaces and straightforward controls make them ideal for hobbyists as well. You can use them for checking coax cable assemblies and measuring the capacitance or inductance of reactive loads.

They're powered by standard AA batteries, or a 5V USB port. You can move across the frequency range in 1 kHz steps, and the minimum sweep range is an impressive 10 kHz. Unlock even more features of these multi-lingual analyzers by connecting them to a PC.

RigExpert's SWR2Air mode turns antenna adjustment into a one-person job. It works by transmitting the SWR measurement on a user-specified frequency, so you can hear it on an HT. Simply listen to the length of the audio signal to determine the SWR value. RigExpert Antenna Analyzers come with zoom-in capabilities for clearer analysis of graphic points. The AA-3000ZOOM features a large 800x480 pixel color TFT display with BlanView® technology, which provides high-contrast, crisp images even when sunlight hits the display directly

Built-in Bluetooth

The RigExpert AA-3000ZOOM model, along with Stick Antenna Analyzers (page 122), come with built-in Bluetooth capability. With Bluetooth wireless communications technology integrated in your analyzer, you can use it in conjunction with a tablet, notebook, smartphone or laptop with Bluetooth to send and save files; operate remotely; view characteristics of your antenna in more detail; file and share measurement results; and much more.

See the quick specs below for each analyzer and get more detailed information at DXEngineering.com.

Part Number	Frequency Range (MHz)	Reference Impedances	Screen (Pixels)	Price
REU-AA-650ZOOM	0.1 - 650	25, 50, 75 & 100 Ω	Color (320 x 240)	**$629.99**
REU-AA-1500ZOOM	0.1 - 1500	25, 50, 75 & 100 Ω	Color (320 x 240)	**$919.99**
REU-AA-2000ZOOM	0.1 - 2000	25, 50, 75 & 100 Ω	Color (320 x 240)	**$999.99**
REU-AA-3000ZOOM	0.1 - 3000	25, 50, 75 & 100 Ω	Color (800 x 480)	**$1,199.99**

RigExpert DX ENGINEERING





Analyzer and NANUK Case Combos

You rely on precise, accurate diagnostic information from your Antenna Analyzer, so keeping it safe and protected is critical. Problem is, finding a case that fits your analyzer isn't an exact science, and there's usually a lot of trial and error fitment involved.

We've tackled that headache for you, pairing select Comet and RigExpert Antenna Analyzers with perfectly sized NANUK equipment cases. Each case will be filled with cubed, sectioned foam, so you can remove the exact amount you need. Plus, you can remove additional foam if you'd like to include any extra connectors or accessories that may fit in your case.

The combos are available in a range of NANUK case colors, including new RED and BLUE options. We've listed a few combos below.
Enter "NANUK Combo" at DXEngineering.com for more specs.

Part Number*	Analyzer Model	NANUK Case Model	Price
DXE-MARKII-905_	Comet CAA-500 Mk II	905 Series	**$484.94**
DXE-650ZOOM910_	RigExpert AA-650ZOOM	910 Series	**$714.94**
DXE-1500ZOOM910_	RigExpert AA-1500ZOOM	910 Series	**$1,004.94**
DXE-2000ZOOM910_	RigExpert AA-2000ZOOM	910 Series	**$1,084.94**
DXE-3000ZOOM910_	RigExpert AA-3000ZOOM	910 Series	**$1,284.94**
DXE-MATCH910_	RigExpert MATCH	910 Series	**$384.94**

***The last character in the part number denotes case color and is left blank. Select your case color at DXEngineering.com. Discontinued AA-170 and AA-30 models fit 910 Series case.**

To take advantage of our Beat-a-Price Guarantee, please Contact Us!

RigExpert

MATCH Upgradeable Antenna Analyzer

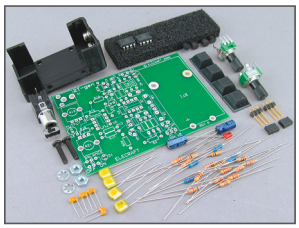


The user-friendly and feature-rich MATCH antenna analyzer offers the flexibility to upgrade as your needs evolve. It lets you easily add functionality and expand coverage without purchasing a new device, so you get the precise level of frequency range and capabilities you require—when you need them! The REU-MATCH base model measures SWR, return loss, cable loss, and other critical parameters in the range of 100 kHz-70 MHz. Owners can easily upgrade to an Advanced license (extends coverage to 230 MHz) or an RFE license (extends coverage to 500 MHz) while adding features to their analyzer. Advanced tools users receive with upgraded licensing include stub tuner, cable length and velocity factor measurements, cable loss, characteristic impedance measurements, SWR2Air, and LC meter (with RFE license). At all levels, users benefit from MATCH's 4" color TFT LCD, consistency and accuracy without prior recalibration, multilingual interface, built-in Help at the push of a button, and user-upgradeable firmware for Windows and MacOS. **Enter "REU Match" at DXEngineering.com for more details.**

REU-MATCH	MATCH Antenna Analyzer, Base Model, 0.1-70 MHz	**$299.99**
REU-MATCH-ADV	MATCH Advanced Upgrade License, 0.1 to 230MHz	**$100.00**
REU-MATCH-RFE	MATCH RFE Upgrade License, 0.1 to 500 MHz	**$200.00**
REU-ADV-TO-RFE	MATCH ADV to MATCH RFE Upgrade License, 0.1 to 500 MHz	**$100.00**

ELECRAFT

2-Tone Test Oscillator

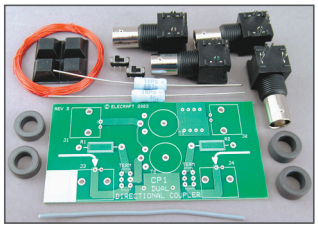


Measuring Transmit Intermodulation Distortion (IMD) is critical when evaluating HF SSB transmitter or amplifier performance. This precision tool makes it simple. Elecraft's 2T-GEN provides a standard 2-tone (700 and 1900Hz) audio source for IMD testing, allowing you to quickly assess how linearity may be impacting SSB fidelity and splatter. The mini-module is a compact 2.5" W x 3.5" L and fits directly into the microphone connector of almost any transceiver. Battery not included.

ECT-2T-GEN 2-Tone Test Oscillator **$139.95**

ELECRAFT

Dual Directional Coupler



A welcome companion for Elecraft's 2-Tone Test Oscillator, the CP1 Dual Directional Coupler lets you easily sample a transmitter's forward power and reflected power output. The high-directivity coupler connects to an oscilloscope or station monitor for display of the transmit envelope. A handy tool for any shack, it can also be used with a diode detector to create a 25- or 250-watt SWR bridge, or with a spectrum analyzer and tracking generator to sweep the return loss (SWR) of an antenna or other device in real-time. The unit operates over a 1 MHz to 30 MHz frequency range.

ECT-CP1 Dual Directional Coupler, Full Kit **$99.95**

ELECRAFT

Programmable Signal Source



Great for shack or field use, Elecraft's versatile miniature 160-2M RF signal source comes with four calibrated output levels and a host of performance-enhancing applications: receiver calibration, sensitivity tests, signal tracing, and as a VFO for home-brew projects. Its serial port allows you to use a computer to set up its frequency and output level, assign frequencies to band switches, and set up sweep step size and rate. You can use the downloadable PC software or write your own XG3 applications. Programmable Signal Source comes factory assembled and tested, not as a kit.

ECT-XG3 Programmable Signal Source **$349.95**

RigExpert

USB Type-A to USB Type-C Power & Data Cable



Perfect for easy charging and built for reliable operation in the field, this cable features a flexible, yet durable wear-resistant blue and yellow silicone outer jacket that retains these characteristics even in cold temperatures down to 5° F (-15° C). Compatible with USB 2.0, 3.0, 3.1, and USB 3.2 data transfer standards, the 39.37" cable handles up to 3.5A, allowing for quick device charging.

REU-USB-A-C-BY USB Type-A to USB Type-C Power/Data Cable **$6.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

RigExpert



REU-STICK-XPRO



REU-STICK-500



REU-STICK-230



REU-STICK-PRO

Stick Antenna Analyzers

The RigExpert Stick 230 antenna analyzer delivers exceptional coverage (0.06-230 MHz) and a range of options for viewing results. The unit provides accurate measurements for 25 through 600 Ω systems. Display modes include SWR (return loss, R, X, Z, L, C, magnitude and phase angle at single frequency); SWR chart (100 points); SWR chart at fixed Ham bands by IARU regions (100 points); and multi-mode for proper checking of multi-band antennas. The Stick 230 analyzer features integrated Bluetooth technology, USB connection to a PC, and waterproof keypad. For wider coverage and the same great functionality and ease of use, choose the Stick-Pro (0.1-600 MHz). Joining the growing family of RigExpert stick analyzers are the Stick 500 (100 kHz-500 MHz) and Stick XPRO (0.1-1,000 MHz) models. All devices measure 7.3" x 1.6" x 1.3" and weigh an easy-to-transport 6.5 ounces.

REU-STICK-230	0.06-230 MHz Stick 230 Antenna Analyzer	$319.99
REU-STICK-500	100 kHz-500 MHz Stick 500 Antenna Analyzer	$395.95
REU-STICK-PRO	0.1-600 MHz Stick-Pro Antenna Analyzer	$479.95
REU-STICK-XPRO	0.1-1,000 MHz Stick-XPRO Antenna Analyzer	$534.99
REU-STICK-HOLDER	Stick Analyzer Belt Holder	$15.00

Shackmaster™ OSL Calibration Kit

RigExpert



Weighing only 5.6 ounces, this compact and precision-made three-in-one OSL calibration kit from RigExpert features a DC-2.5 GHz frequency range, three N-type 50 Ω standards, 250mW power rating, protection of connectors from external influences for higher accuracy, adjustable connector design, and return loss of -22 dB at 3 GHz and -31 dB at DC-1.5 GHz.

REU-OSL-KIT OSL Calibration Kit $184.99

COMET™





CAA-500 Mark II Antenna Analyzer

Improving on the revered CAA-500, the Mark II edition adds a full color LCD screen. The new display can show graphical and numerical SWR, total impedance (with X and R values), frequency and battery life. SWR and impedance are displayed simultaneously, allowing you to easily determine resonant frequency.

The analyzer will scan a frequency range in mere seconds, to make antenna adjustments and troubleshooting much quicker. The analyzer has broad frequency coverage, twin analog meters and two antenna connection jacks. It is powered by six AA batteries, which provide up to 14 hours of operation.

CMA-CAA500MARKII	Antenna Analyzer	$549.95
CMA-CAA-5SC	Carrying Case	$47.95

ON ALL BANDS
AN AMATEUR RADIO BLOG POWERED BY DX ENGINEERING

Check out our blog, ***OnAllBands.com***, for articles on upcoming DXpeditions, what's new in contesting, digital operations, and a range of other topics. Want more? We've got loads of tech videos and interviews on the DX Engineering YouTube channel. Of course, when you want personal attention, our experts are only an email or phone call away.

Mini Vector Network Analyzers

CHELEGANCE
JNCRadio



Following up on the well-respected heels of the NANOVNA-F network analyzer, the JNCRadio VNA 3 GHz Portable Vector Network Analyzer from Chelegance offers an impressive coverage range (50 kHz through 3 GHz), with an improved sweep speed of 400 points/sec—four times faster than the NANOVNA-F. It features an upgraded and optimized user interface for maximum convenience and efficiency when performing a range of measurements, plus loads of ham-friendly perks, such as its 4.3" IPS touch screen and a 5000mA rechargeable internal battery housed in an aluminum case with SMA connectors. The unit can be used for measuring SWR, impedance, reactance, phase, delay, and Q factor of RF circuits, filters, duplexers, amplifier strip lines, cables, antennas, and many other applications. It has a dynamic range of 70 dB for S21 and 50 dB for S11. Displaying in linear, polar and Smith Chart plots, the CE-, FCC- and RoHS-compliant device comes with an SMA Open-Short-Load Calibration Kit (NCE-CH0020004), RG405 cable, stylus, SMA adapters, and USB Type-C cable.

NCE-CH0010005 JNCRadio 3 GHz Portable Vector Analyzer $425.25

NANOVNA-F V2 3 GHz Mini Vector Analyzer





NCE-CH0030001



NCE-CH0020010

The NANOVNA-F provides exceptional 3 GHz coverage and tons of functionality in a small package. It has an S21 dynamic range that's greater than 70dB at 50kHz-1.5GHz and greater than 60dB at 1.5GHz-3GHz; the ability to function up to a continuous 7 hours due to its low-power design and 5000mAh rechargeable internal battery; sturdy metal enclosure; and easy firmware upgrades. It comes with Open-Short-Load Calibration Kit, RG405 cable, stylus, SMA adapters, and USB Type-C cable. Also available is the RF Demo Kit for VNA, featuring 18 RF circuits to demonstrate how each appears on the display when using a vector network analyzer.

NCE-NANOVNA-F-V2	NANOVNA-F V2 3 GHz Mini Vector Network Analyzer	$299.97
NCE-CH0020004	Open-Short-Load Calibration Kit for VNAs	$19.99
NCE-CH0020003	RF Demo Kit for VNAs	$32.97
NCE-CH0020005	JNCRadio SMA Adapter Kit, Type-N to SMA	$21.57
NCE-CH0020006	JNCRadio SMA Adapter Kit, PL-259 and SO-239 to SMA	$21.57
NCE-CH0020007	JNCRadio SMA Adapter Kit, BNC to SMA	$20.99
NCE-CH0020008	Coax Adapter Assembly for VNA, RP-SMA Female to IPX, 7.9", Set of 2	$11.97
NCE-CH0020010	Type-N/UHF Coaxial RF Connector Adapters, Set of 4	$29.70
NCE-CH0030001	BNC Male to SO-239/UHF Female Right Angle Coaxial Adapter, Pair	$25.80

DX ENGINEERING

OSL Calibration Set for RigExpert Antenna Analyzers



The OSL (Open-Short-Load) Calibration Set allows the measurement reference plane of advanced RigExpert analyzers (AA-55ZOOM and higher) to be moved to the far end of a transmission line for accurate measurement of any antenna in its proper operating location. After selecting your analyzer's "Calibrate" function and attaching the Open, Short and Load calibration standards to the end of a coaxial cable as directed, you can view the "true" characteristics of the antenna under test, as if the analyzer were connected directly to the antenna feedpoint. Open, Short, and Load standards are built into high-quality silver-plated chassis mount SO-239 (UHF female) connectors.

DXE-OSL-CAL-SET OSL Calibration Set $65.99

CHELEGANCE
JNCRadio







OSL Calibration and Coaxial Adapter Kits

These kits combine Chelegance's Open, Short, and Load SMA male calibration standards with three coaxial adapter types; choose the set that mates with your analyzer. Open, Short, and 50 Ω Load are used for analyzers that support automated OSL calibration. Using the included adapters, the calibration connectors can be placed, one at a time, directly on a network analyzer or antenna analyzer. On some analyzers, calibration connectors may be used at the end of coaxial cable to account for the complex impedance changes that connectors and cable lengths cause in RF systems. This process provides the most accurate measurements of the characteristics of the antenna.

OSL Calibration Kits

NCE-CH0030023-M	3 Standards SMA Male/3 SMA Female-UHF Male Adapters;	$34.99
NCE-CH0030023-N	3 Standards SMA Male/3 SMA Female-N Male Adapters	$33.87
NCE-CH0030023-B	3 Standards SMA Male/3 SMA Female-BNC Adapters	$34.99

SV4401A Handheld Vector Network Analyzer

CHELEGANCE JNCRadio



Covering 50 kHz-4.4 GHz, the dual-port handheld SV4401A (7.480" W x 5.118" H x 1.181" D) features a 7" capacitive touchscreen display. It can be used to measure/analyze antenna or coax parameters such as SWR, impedance, loss, and antenna phase; tune filters; test amplifiers, attenuators, cables, couplers, and duplexers; and display results in a variety of formats including Log Mag, Linear Mag, Phase, Smith R+jX, Smith R+L/C, VSWR, Polar, Group Delay, Resistance, and Reactance. The unit includes adapters and connectors, 19.5" of RG-316 cable, gold-plated SMA Load/Open/Short calibration kit, 3350AH 18650 Li-Ion rechargeable batteries, and case. **Enter "SV4401A" at DXEngineering.com for more details.**

NCE-CH0010006 SV4401A Handheld Vector Network Analyzer **$748.50**

SV6301A VNA Handheld Network Analyzer



Perform a variety of measurements with the SV6301A network analyzer, featuring 1 MHz-6.3 GHz coverage; built-in 8GB TF memory card; 7" high-brightness, IPS capacitive touchscreen; and 1,001 ScanPoints. Kit includes USB Type-C cable for recharging, SMA calibration kit, two 3350 mAh Li-Ion batteries boasting three hours of life, and two 60cm SMA-JJ SS405 coaxial cables.

NCE-CH0010011 SV6301A Handheld Vector Network Analyzer **$1,675.80**

Hook and Loop Cable Ties



ECLIPSE™

Keep your workspace tidy with Eclipse Tools! These hook and loop cable ties are made to cling tightly to themselves for secure and effortless cable management. Made from strong nylon/propylene, the 8" ties are available in an assortment of 15 (three each of black, green, purple, red, and yellow) or in packs of 25 of single colors.

ETL-900-098-AST Hook and Loop Cable Ties, Pack of 15, Color Assortment ... **$8.25**
ETL-900-098-BK Hook and Loop Cable Ties, Pack of 25, Black **$11.99**
ETL-900-098-PU Hook and Loop Cable Ties, Pack of 25, Purple **$10.99**
ETL-900-098-RD Hook and Loop Cable Ties, Pack of 25, Red **$10.99**
ETL-900-098-YL Hook and Loop Cable Ties, Pack of 25, Yellow **$10.99**

Braided Wire Wraps



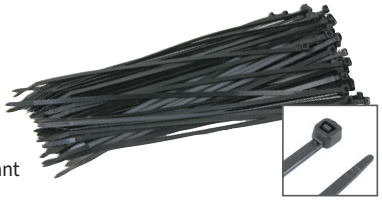
Use these wraps to add extra protection to your wires, tidy up a crowded chassis, improve cable management or to add a slick custom look to your homebrew projects. They're made from a heat resistant, woven polymer fiber that's split lengthwise so you can easily slip in your wire bundle. The wraps come in different lengths and diameters.

Part Number	Diameter	Length	Price
SUM-890340	1/4"	20'	**$13.99**
SUM-890341	1/2"	10'	**$17.99**
SUM-890342	3/4"	6'	**$14.99**
SUM-890343	2"	4'	**$28.99**

SUMMIT RACING EQUIPMENT

DX ENGINEERING

Zip Ties



Quite possibly the most versatile tools in your shack, you can use these ties for cable management, field repairs, securing gear and more. They are made in UV-resistant black and come in several sizes.

DXE-1860-100 Zip Ties, 4", Pack of 100 ..... **$5.59**
DXE-1861-100 Zip Ties, 8", Pack of 100 ..... **$6.79**
DXE-1862-100 Zip Ties, 11", Pack of 100 ..... **$9.99**
DXE-1863-100 Zip Ties, 14", Pack of 100 ..... **$10.99**

Magnetic Tool Trays



These handy magnetic tool trays from Summit Racing are perfect for keeping small metal parts, connectors, adapters, fasteners, and tools in place so they won't come up missing during your projects in and out of the shack. Made of polished stainless steel, the round 910060 tray (4.25" diameter, 1.25" TALL) and the rectangular 910061 model (5.375" x 9.375", 1.25" tall) stick to most metal surfaces and have rubber feet to prevent scuffing and scratching. A smart idea for everything from antenna building to grounding jobs.

SUM-910060 Magnetic Parts/Tool Tray, Round **$3.99**
SUM-910061 Magnetic Parts/Tool Tray, Rectangular **$10.99**

miniVNA PRO2 BT and Tiny Network Analyzers

WIMO



With a frequency range of 1 to 3,000 MHz, the Tiny model (2.6" x 2.6" x 1.1") tests for SWR and impedance, and can be used for transmission measurements on band filters or amplifiers. As a vectorial analyzer, it can perform quadrupole measurements of S11 and S21 parameters, with the results displayed and stored as a Smith diagram. Power supply and software upgrades are available via USB interface; an external power supply is not required. Impedance (Z) can be measured from 1 to 1,000 Ω; dynamic range is up to 70 dB. The device can be used as a low power HF generator as well. Other features include SMA connectors for better isolation; ability to export in a variety of formats; full phase measurement; and boot loader for firmware upgrades.

The updated miniVNA PRO2 version is a dual port unit as well, with 100 kHz to 200 MHz/10 kHz to 230 MHz frequency ranges. It includes a 1000mAh battery, providing four hours of full-scan operation, and a wireless Bluetooth interface—enhancements that allow you to use the analyzer directly at the antenna's feedpoint. Other features include impedance range from 1 to 1,000 Ω; built-in USB battery charger; two separate buffered RF outputs for I/Q for SDR experiments and IMD test with independent 0-55 dB attenuator; extended dynamic range: up to 100 dB for transmission, up to 50 dB for reflection; and user-friendly interface for PC Windows, Linux, and MAC. Both models can be used with optional WiMo 50 Ohm SMA Calibration Kit, which includes one 50 Ω load, one short, and one open.

WMO-MINIVNAPROBT miniVNA PRO2 BT Wireless Vector Network Analyzer **$509.99**
WMO-MINIVNA-TINY miniVNA Tiny Vector Network Analyzer **$599.99**
WMO-21010-SMA 50 Ohm SMA Calibration Kit **$35.99**



BongoTies®

Multi-Purpose Tie Wraps

Here's a great way to get a handle on your growing coaxial cable collection. Originally designed as a sturdy cable tie for Hollywood movie grips, sound technicians, and photographers, five-inch-long BongoTies have grown to become a long-trusted solution in the shack and around the house. They're made from two organic renewable materials: bamboo and natural Hevea rubber. The versatile, professional-quality wraps can perform an array of tasks, including securing coaxial and control cables, computer and TV cables, appliance and power tool cords, and holiday lighting. They can also be employed to tie down tarps; secure banners; clamp items while gluing; and attach items to backpacks, bikes, and luggage. They come in packs of ten in your choice of colors, from natural bamboo to tree frog green.

BGO-A5-01 10 BongoTies, Natural Pin, Black Rubber **$8.99**
BGO-A5-01-B 10 BongoTies, Blue Pin, Blue Rubber **$8.99**
BGO-A5-01-G 10 BongoTies, Green Pin, Green Rubber **$8.99**
BGO-A5-01-R 10 BongoTies, Red Pin, Red Rubber **$8.99**
BGO-B5-2 10 BongoTies, Natural Pin, Natural Rubber **$8.99**
BGO-D5-01-B 10 BongoTies, Azure Blue Pin, Black Rubber **$8.99**
BGO-D5-01-G 10 BongoTies, Tree Frog Green Pin, Black Rubber **$8.99**
BGO-D5-01-K 10 BongoTies, Obsidian Black Pin, Black Rubber **$8.99**
BGO-D5-01-R 10 BongoTies, Lava Red Pin, Black Rubber **$8.99**

Stow-It Wrap Ties

ECLIPSE™



Manage your cabling, guy wires, or any other supplies that need tidy storage. Constructed from weather-resistant 900 denier ballistic nylon, these 3" x 23" hook-and-loop ties will keep your equipment and supplies exactly where you put them. Metal grommet for hanging included. Rated up to 150 pounds.

ETL-902-511 Stow-It Wrap Cable Tie **$5.49**

Check out our YouTube channel for in-depth tech tips and product demos!

⚠ **WARNING:** For Proposition 65 information, see p. 3

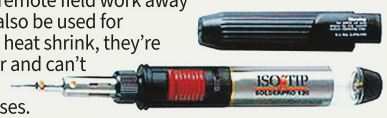
Rechargeable Soldering Irons

ISO-TIP offers cordless soldering irons that heat up quickly, provide high operating temperatures and have a long service life. Here are some of its most popular irons.

Butane Torches

As an alternative to ISO-TIP's battery powered options, these butane soldering irons are ideal if you're doing remote field work away from a charging source. Since they can also be used for brazing, cutting, de-icing and activating heat shrink, they're a smart choice if you're climbing a tower and can't carry a bunch of tools. The kits include the iron and multiple tips for different uses.

ISO-7977



ISO-7971	Pro 50 Butane Soldering Iron Kit	$45.99
ISO-9010	Pro 90 Butane Soldering Iron Kit	$69.99
ISO-7977	Pro 120 Butane Soldering Iron Kit	$125.99

***Due to shipping restrictions these torches ship without butane.**

Model 7700

ISO-7700



As ISO-TIP's flagship iron, the 7700 is a well rounded iron for shop and shack use. It can be completely recharged in 3-4 hours, and will solder up to 125 joints on a single charge. The iron comes with a handy charging stand and a pair of interchangeable tips. Model 7700 is also available in a kit that includes more tips, solder, heat shrink tubing, flux, a butane torch, cleaning pad and a handy carrying case.

ISO-7700	Model 7700 Rechargeable Soldering Iron	$79.99

Power Pro Advanced Soldering Iron Kit



This kit makes an excellent addition to your Ham shack when you've got a lot of work to accomplish at once. Solder up to 150 joints per charge during continuous use. Kit includes soldering iron, recharging stand, LiFePO4 battery, high efficiency fine tip and chisel tip, and a one-year limited warranty. Iron fully charges in 3 to 3.5 hours for long sessions of precision work.

ISO-8000	Advanced Soldering Iron Kit	$123.99

Butane Solder Kit



The Power Probe Butane Solder Kit features an electronic ignition and flame adjustment. It's easily refillable with butane and can last up to two hours between refills. Kit includes soldering tool, chisel, wedge tip, solder tip, heat blower tip, hot knife, heat shrink, and tube of solder.

PWP-PPSK	Butane Solder Kit	$126.61

Magnifier Lamps



ETL-MA-021



ETL-MA-1205LA

For highly detailed work, turn to Eclipse Tool's Handheld 3.5X(10D) LED Light Magnifier (ETL-MA-021). This handy and economical magnifier features two bright LEDs and a 1.8" diameter lens for close-up soldering and other work. The ETL-MA-1205LA LED Magnifying Inspection Lamp features a high-quality 5-diopter, 5" glass lens and 56 LEDs powered at 9W for bright, shadow-free lighting. Mounted on flexible, spring-loaded arms with sturdy workbench clamps, the lamp provides full positional control for precision work on your station. A protective cover preserves lens clarity.

ETL-MA-021	Handheld 3.5X LED Light Magnifier	$5.09
ETL-MA-1205LA	LED Magnifying Inspection Lamp	$102.99

Desktop Inspection Lamp



This versatile magnifying workbench lamp from Eclipse Tools will help you get a closeup look at your projects, whether you're building a kit or performing delicate soldering. The lamp features 2.25X (5D) magnification, a 700 lumen LED, desktop clamp, adjustable arm, and scratch-resistant glass lens. One satisfied user called it "an excellent light for the workbench with plenty of illumination, and the magnifier is perfect for intricate work."

ETL-MA-1209LA	Desktop Inspection Lamp	$121.99

DeoxIT® Rosin Soldering Flux



Formulated to improve solder flow, this non-corrosive flux can be wiped off easily without leaving a residue.

CAG-RSF-R80-2	DeoxIT Rosin Soldering Flux	$11.95

In-Stock Parts Typically Ship The Same Day.



Heavy-Duty Soldering Irons

Well suited for assembly line electronic production, these irons can handle constant use. They feature an innovative compression-wound heating element that can maintain a constant temperature. The 100-250 watt irons include a diamond tip; the tip is sold separately for the AMB-3178LT-300.

AMB-3138-100	Heavy-Duty Iron, 100 Watts	$175.00
AMB-3138-130	Heavy-Duty Iron, 130 Watts	$175.00
AMB-3138-150	Heavy-Duty Iron, 150 Watts	$175.00
AMB-3138X-175	Heavy-Duty Iron, 175 Watts	$175.00
AMB-3158-200	Heavy-Duty Iron, 200 Watts	$250.00
AMB-3158X-250	Heavy-Duty Iron, 250 Watts	$250.00
AMB-3178LT-300	Heavy-Duty Iron, 300 Watts	$240.00

Pencil-Style Soldering Irons

Professional quality irons, priced for the hobbyist. You can rely on them to provide consistent temperatures for all of your projects. They're comfortable and maneuverable, ideal for tight chassis and precise solder joints.

AMB-3110-30	Pencil-Style Iron, 30 Watts	$89.99
AMB-3112-60	Pencil-Style Iron, 60 Watts	$99.99

Dri-Wick Desoldering Braids

Whether you're working on a PCB or point-to-point circuits, Dri-Wick Desoldering Braids will make desoldering jobs much easier (and much safer for your gear). This 100 percent copper wick is coated with flux, which will help the solder pull cleanly and quickly off of the component.

Part Number	Braid Width	Spool Length	Price
AMB-484-1G	.035"	5'	$4.99
AMB-484-2G	.055"	5'	$5.24
AMB-484-3G	.075"	5'	$5.49
AMB-484-4G	.098"	5'	$5.74
AMB-484-5G	.130"	5'	$5.99
AMB-485-8C	.093"	8'	$7.99



Solder

Kester has over a century of experience making the finest quality solder on the market. This solder is ideal for sensitive electronic and telecommunication equipment. This chart is just the tip of the iceberg, visit DXEngineering.com for more solder options.



Part Number	Type	Gauge	Melting Point (F)	Price
1 Lb. Spool				
KTR-14-6040-0125	No Flux Core	8	361˚	$74.99
KTR-24-6337-8817	245, No-Clean	14	361˚	$51.99
KTR-24-6337-6411	331, Water Soluble Flux	14	361˚	$44.99
KTR-24-6040-9710	RMA Rosin Core	22	361˚	$75.99
KTR-24-6040-0061	44 RA Rosin Core	14	361˚	$42.99
KTR-24-6337-0027	44 RA Rosin Core	20	361˚	$59.99
KTR-24-6040-0027	44 RA Rosin Core	20	361˚	$54.99
KTR-24-6040-0039	44 RA Rosin Core	18	361˚	$52.99
KTR-24-6337-0053	44 RA Rosin Core	16	361˚	$51.99
KTR-6040-0066	44 RA Rosin Core	11	361˚	$41.99

Flux Pen



Apply your solder flux with ease and precision, and keep your PCBs clean and attractive. Kester 186 is an RMA-type flux that retains high thermal stability, and any residue left after soldering is typically OK for most electrical applications.

KTR-83-1000-0186	Flux Pen	$12.99

Silver Bearing Solder Paste



Make your tough soldering job easier. Simply use the syringe to apply ISO-TIP's Solder Bearing Paste to your solder joint, hit it with your iron and the solder will flow right in—no mess and no clumsy wire feeding. It works with all ferrous and non-ferrous materials, including steel, bronze, chrome, silver and more. That means it's perfect for wires, cable, connectors, plumbing/piping, and more. Read how it works at DXEngineering.com.

ISO-7459	Silver Bearing Solder Paste	$15.99

⚠ WARNING: For Proposition 65 information, see p. 3

SUMMIT RACING EQUIPMENT



Stainless Steel Digital Caliper

The only way to make precise outside, inside, step and depth measurements, this ultra-accurate caliper is made to provide years of service. A large LCD screen makes it easy to use. The caliper also features SAE-to-metric conversion, an on/off switch, locking thumb wheel and an instant zero setting.

SUM-900001-2 Stainless Steel Digital Caliper **$33.99**

Professional Electronics Tool Kit

ECLIPSE™

Here's a great upgrade for hams and anyone looking for a comprehensive electronics tool kit for repairs and maintenance. Housed in a durable, soft zippered carrying pouch, the kit includes:

- Dual-Color Lineman's Pliers, Needle Nose Pliers, Diagonal Cutting Pliers
- Super-Fine-Tip Straight Tweezers
- 6-Piece Electronics Screwdriver Set
- IC Extractor
- Lead-Free Solder Dispenser
- Flat Needle File & Round Needle File
- PVC Insulated Tape
- Anti-Static Wrist Strap
- Desoldering Pump
- Ceramic Soldering Iron
- Compact Digital Multimeter
- Folding-Type Hex Key Set (SAE)
- Various Sizes of Screwdrivers and Socket Drivers



ETL-PK-616A Electronics Tool Kit w/ Zippered Case **$132.99**

Heat Shrink Tubing Kits

Eclipse Tools heat shrink tubing kits are used as shrink-fit electrical insulation over cable splices and terminations, as well as for bundling and wire identification purposes to create a professional finish. They come organized in a clear plastic box with an assortment of widths ranging from 1/16"-3/8". Kits contain 160 precut tubes (4" long) designed with a built-in 2:1 shrink ratio at 230° F (110° C).



ETL-902-355 Heat Shrink Tubing, Black, 160 Pieces.... **$12.99**
ETL-902-460 Heat Shrink Tubing, Assorted Colors, 160 Pieces **$14.99**

10-Piece Alignment Trimming Tool Set

Making delicate adjustments to trimmer capacitors, resistors, and inductors just got a whole lot easier thanks to Eclipse's 10-Piece Alignment Trimming Tool Set. It comes with 10 different tips, including slotted, hexagonal, square, and inverse types to handle any job.



ETL-1PK-A001 Alignment Trimming Tools, Set of 10 ..... **$5.25**

M12 Soldering Iron Kit

Milwaukee

Milwaukee's M12 Soldering Iron delivers fast application speeds by reaching operational temperature in under 18 seconds and by maintaining an optimized temperature throughout even the most demanding jobs. Its heat indicator notifies users when the tool is ready to use and safe to store, eliminating guesswork. The three-stop pivoting head provides unmatched access by letting users adapt the tool for the application and solder in more confined spaces. The M12 Soldering Iron, powered by REDLITHIUM battery technology, delivers up to 40 minutes of run-time on an M12 compact battery pack. The soldering iron kit includes a rechargeable M12 REDLITHIUM Li-Ion battery, charger, and carrying case.



MWT-2488-21 M12 Soldering Iron Kit **$179.00**

Soldering Helping Hands Work Holders

New!

ECLIPSE™

The Eclipse Helping Hands Work Holder makes a great choice for all kinds of jobs. The heavily-weighted work stand features a universal joint for positioning your work, along with an arm and two alligator clips to hold parts in place for soldering. Its magnifier lens makes small parts easier to work on. The 6S-2 soldering iron stand has a convenient holder for pencil-style soldering irons and sponge-type tip cleaner.

ETL-900-037



ETL-900-037 Helping Hands w/Magnifier Lens **$10.99**
ETL-6S-2 Soldering Iron Stand..... **$5.39**

Need advice? 1-330-572-3200 or DXEngineering@DXEngineering.com



ETL-SS-207E

ETL-SI-B166



ETL-SI-168U



ECLIPSE™

Eclipse Tools

DX Engineering is now proud to bring Eclipse's shack-friendly tools to your station, including heavy-duty cable cutters, screwdriver sets, wrist straps, static mats, wire strippers, desoldering pumps, and digital multimeters. **Enter "Eclipse" at DXEngineering.com.**

Soldering Irons and Soldering/Desoldering Stations

The SS-207E Digital Controlled Soldering Station features easy-to-read digital temperature display; temperature range of 392-896° F; stable power and fast thermal recovery; an insulated and ergonomically designed soldering iron handle for comfortable operation; and CE, ESD safety certification. The SS-257EU Smart Soldering Station includes a 75W stainless steel heating element, a temperature range of 86° to 932° F, and a large LCD with shuffle knob for easy control. The compact SI-168U 8W Portable USB Soldering Iron heats up in 15 seconds and cools down in 30 seconds; has a maximum temperature of 896° F; comes with a replaceable long-life tip; and features a power indicator to avoid accidental burns. The SI-B166 fast-heating Wireless Power Soldering Iron runs on a provided rechargeable 2200 mAh Li-Ion battery (1.5-hour run time on full charge). It comes with a stand that doubles as a recharger or iron holder.

ETL-SS-207E Digital Temperature Controlled Soldering Station **$134.99**
ETL-SS-257EU LCD Smart Soldering Station **$195.99**
ETL-SI-168U Portable USB Soldering Iron **$13.99**
ETL-SI-B166 Wireless Power Soldering Iron **$60.99**
ETL-5SS-331N-NZ Desoldering Station Replacement Tips, Set of 3 ..... **$14.49**

6-Piece Soldering Tool Set for Printed Circuit Boards

These specialized, double-sided tools can make a major difference when performing delicate soldering work on printed circuit boards. They're designed to bend and hold leads, remove dust and contamination, adjust pins and components, remove residual solder and flux, cut away unnecessary circuit elements, clean or expand pad holes, and eliminate residue prior to soldering.



ETL-900-100 6-Piece Soldering Tool Set for Printed Circuit Boards **$9.39**

Desoldering Pumps

ETL-DP-366J High-Suction Transparent Desoldering Pump **$5.29**
ETL-900-004 Mini-Tip Desoldering Pump w/Anti-Static Tip **$8.39**

More Great Soldering Options from Eclipse

The Economy Soldering Station (900-035) offers a basic, budget-friendly, and effective way to handle a number of jobs. It comes with a pencil-tip soldering iron, selectable 20/40W temperature switch, built-in stand, and sponge for tip cleaning. The Butane Soldering Iron Kit (GS-23K) is designed with an auto-ignition feature, ensuring easy and safe operation. The kit comes with a durable TR90 nylon gas tank with transparent window for easy refilling and monitoring.



ETL-900-035

ETL-900-035 Economy Soldering Station **$32.99**
ETL-902-329 25W Pencil-Tip Soldering Iron **$12.99**
ETL-GS-23K Butane Gas Soldering Iron Kit with Auto Ignite..... **$82.99**
ETL-SI-125A-20 20W Mini Soldering Iron **$17.99**
ETL-SI-B162 Battery-Operated Soldering Iron... **$18.99**

Flux Bottle/Tip Cleaners

This fine-tipped flux bottle evenly dispenses flux exactly where you need it. The Eclipse Soldering Iron Tip Cleaner is a low-abrasive type made from brass shavings that won't t burn or allow solder to stick. Since it's used dry, the cleaner won't cool your iron when you clean the tip. A quick wipe of your iron through the cleaning ball gets the job done.



ETL-900-230

ETL-900-230 Fine-Tipped Flux Bottles, 2 Pack **$2.99**
ETL-900-242 Soldering Tip Cleaner..... **$9.19**
ETL-900-243 Soldering Tip Cleaner Refills, 5 Pack..... **$10.99**

4-Piece Probe and Pick Set

When you're dealing with hard-to-reach places and soldering and electronic work that demands precision, this 4-piece stainless steel set of tools, featuring hooked, curved, straight, and angled tips, will help you get the job done the right way.



ETL-900-205 4-Piece Set w/ Storage Bag **$7.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3

Heat Guns

The Digital LCD Heat Gun (ETL-902-458) features digital LCD display, smart overheat protection design, automatic cool air flow to reduce cool-down time, and two temperature settings (300°C and 500°C). Includes four nozzles, scraping tool, and blow-molded case.



ETL-902-458 Digital LCD Heat Gun with Accessories **$89.99**

SMD Hot Air Rework Station

This station is perfect for rework and soldering operations on a broad range of components, as well as for heat shrinking, drying, paint removal, pre-heating, glue soldering, and more. The SS-969E boasts a microprocessor-controlled system and a closed-circuit sensor design and offers adjustable settings for air flow, air volume and temperature. The heating element is constructed from durable metal. At 700W, it offers a wide temperature range of 212°-842° F and features an auto cool-off process to extend the life of the heating element. The unit lets you safely solder QFP, PLCC, BGA, and other sensitive components.

ETL-SS-969E SMD Hot Air Rework Station **$140.99**

DX ENGINEERING

Adhesive Lined Heat Shrink Tubing



Insulate and protect your connections without the hassle of tape, using DX Engineering Adhesive Lined Heat Shrink Tubing. It's also perfect for repairing nicks in a cable jacket or for dressing-up your in-shack runs. Both packs include 20 individual 1.5" lengths of tubing, each with a 3:1 shrink ratio.

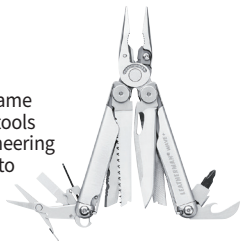
DXE-HS38-20 Heat Shrink Tubing, 0.375" OD **$12.49**

DXE-HS12-20 Heat Shrink Tubing, 0.500" OD **$13.79**

LEATHERMAN

Leatherman Multi-Tools

Co-founded by Timothy Leatherman in 1983, Leatherman is a name that has become synonymous with high-quality, multipurpose tools that can be a ham's best friend in and out of the shack. DX Engineering carries more than 30 Leatherman Multi-Tools that are designed to perform a range of tasks. Built to last, Leatherman tools are backed by a 25-year limited manufacturer's warranty. **Enter "LMT" at DXEngineering.com for the full lineup.**



LMT-832531

Wave + Multi-Tool

This international best-seller from Leatherman features 18 stainless steel tools to conveniently handle lots of jobs at home or in the field. The Wave + includes flathead and Phillips screwdrivers, file, knife, hex drive, pliers, saw, spring-action scissors, bottle opener, can opener, wire cutter, wire stripper, ruler, serrated blade, electrical crimper, and more. Black nylon sheath also included.

LMT-832531 Wave + Multi-Tool..... **$129.95**

PANAVISE®

Vises and Accessories



PVP-201 PVP-381 PVP-301

The next best thing to an extra pair of hands, these vises and accessories allow you to put your project in virtually any position. That makes complex soldering jobs and wire routing much easier, especially in tight chassis. Many styles are available to suit your specific needs.

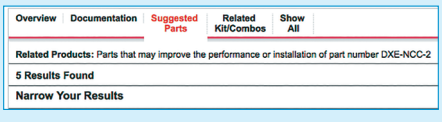
PVP-301 Original PanaVise, Nylon Jaws, 2.25" Jaw Width, Standard Base..... **$61.99**

PVP-380 300-Series Vacuum Base, Accepts Many Head/Mount Combos..... **$57.99**

PVP-203 PanaVise Jr. Head, .875" Width, 5/8" Shaft for 300-Series Base **$27.99**

PVP-381 Original PanaVise, Nylon Jaws, 2.25" Jaw Width, Vacuum Base..... **$87.99**

PVP-201 PanaVise Jr. Mini-Vise, 2.875" Jaw Width, Standard Base..... **$36.99**



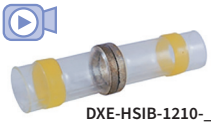
Suggested Parts

Sometimes Ham Radio gear requires special accessories like hookup cables and brackets to complete an installation. Visit DXEngineering.com and check out the "Suggested Parts" tab on certain products to see what you'll need to get up and running.

DX ENGINEERING

Heat Shrink Insulated Butt Connectors

Scan code to watch video.



DXE-HSIB-1210-_

Get your station projects done the right way with Heat Shrink Insulated Butt Connectors with internal fluxed solder ring. These no-crimping-required connectors feature a transparent sleeve for precise visual inspections, greater pull strength than PVC or nylon connectors, heat shrinkable tube insulation, maximum 600V rating, color-coding to industry standard wire gauges, and full waterproofing to protect against corrosion. Check out our YouTube channel for an in-depth product demo!

DXE-HSIB-1210-10 10 Pack, 12-10 AWG **$8.99**

DXE-HSIB-1210-25 25 Pack, 12-10 AWG **$13.99**

DXE-HSIB-1210-50 50 Pack, 12-10 AWG **$25.99**

DXE-HSIB-1614-10 10 Pack, 16-14 AWG **$7.99**

DXE-HSIB-1614-25 25 Pack, 16-14 AWG **$11.99**

DXE-HSIB-1614-50 50 Pack, 16-14 AWG **$22.99**

DXE-HSIB-2218-10 10 Pack, 22-18 AWG **$6.99**

DXE-HSIB-2218-25 25 Pack, 22-18 AWG **$10.99**

DXE-HSIB-2218-50 50 Pack, 22-18 AWG **$21.99**

DXE-HSIB-2624-10 10 Pack, 26-24 AWG **$6.99**

DXE-HSIB-2624-25 25 Pack, 26-24 AWG **$10.99**

DXE-HSIB-PACK1 24 Pack, 6 Each, 12-10, 16-14, 22-18, 26-24 AWG **$10.59**

DXE-HSIB-PACK2 40 Pack, 10 Each, 12-10, 16-14, 22-18, 26-24 AWG **$16.99**

DXE-HSIB-PACK3 80 Pack, 20 Each, 12-10, 16-14, 22-18, 26-24 AWG **$32.99**

TITAN

Electric Heat Gun



Made from durable ABS plastic, this double-insulated Titan electric heat gun (750/1,500 Watts, 110/120VAC) delivers dependable performance for a variety of projects, including plastic welding, shrink tubing, and paint stripping. It features a dual temperature setting and three-position rocker switch (off, high, and low).

TTN-22400 Electric Heat Gun **$29.99**

Summit Racing™ Wraparound Safety Glasses



Don't forget to wear a good pair of safety glasses when soldering connectors, mounting components on a circuit board, or doing any soldering work to prevent particulates and chemicals from damaging your vision. These Summit Racing wraparound safety glasses feature polycarbonate lenses plus a stylish wraparound design that fits close to help reduce the risk of eye injuries whether you're working in the shack or garage. Summit Racing™ Bifocal Safety Glasses also available.

SUM-P186 Wraparound Safety Glasses, Chrome Lens..... **$6.99**

SUM-P187 Wraparound Safety Glasses, Amber Lens **$6.99**

SUM-P188 Wraparound Safety Glasses, Orange Lens **$6.99**

SUM-P189 Wraparound Safety Glasses, Gray Lens..... **$6.99**

SUM-P190-10 Bifocal Safety Glasses, 1.0 Diopter, Clear..... **$10.99**

SUM-P190-15 Bifocal Safety Glasses, 1.5 Diopter, Clear..... **$10.99**

SUM-P190-20 Bifocal Safety Glasses, 2.0 Diopter, Clear..... **$10.99**

SUM-P190-25 Bifocal Safety Glasses, 2.5 Diopter, Clear..... **$9.99**

Be Safe When You Solder!

In addition to wearing eye protection, there are a number of additional precautions to take when soldering. Remember, soldering irons are extremely hot and shouldn't be touched. While this may seem obvious, many a ham has been burned by carelessly touching the iron's element or tip, so use these tools with a healthy dose of respect. Further, don't let your iron come in contact with combustible materials, work in a well-ventilated area to prevent soldering fumes from reaching your lungs and eyes, always turn off the iron when not in use and place it back in its stand, keep the iron's cord untangled, never solder on a live electrical circuit, and use magnification rather than placing the work close to your eyes.

Summit Racing™ Shrink Sleeve Assortment



Way better than standard vinyl heat-shrink tubing (which can crack and tear), this tubing is made with professional-grade polyolefin. That helps it better withstand both time and the elements. This kit includes over sixty 6 inch tubes ranging from 1/8" to 3/4" ID, all housed in a compartmentalized case, so everything stays neat and tidy.

SUM-890092 Shrink Sleeve Assortment..... **$23.99**

plasticase NANUK PROFESSIONAL PROTECTIVE CASES



NANUK Equipment Cases



From arctic blasts to scorching desert heat, NANUK Equipment Cases have been tested and proven in the harshest environments on the planet. They're designed to meet strict military standards and are virtually indestructible. Each one is made from NANUK's exclusive high-impact resin, which means they're extraordinarily strong yet lightweight. A hollow core gasket makes the cases watertight and PowerClaw™ latches ensure the lids stay closed. They also have built in flanges to accept a padlock. NANUK stands behind all of its cases with a lifetime guarantee.

NANUK Equipment Cases come in a wide range, sizes and colors (red and blue options are now available). Each one listed below is filled with cubed foam that you can easily pull away to create a custom foam recess for your gear. Most cases are also available empty and a padded foam divider is sold separately to give you more storage options. Additional case sizes, custom foam and accessories are available at DXEngineering.com.

Part Number	Color	Price
905 Series Cases, with foam Ext. Dimensions: 12.5" L x 10.1" W x 6" H		
PSC-905-1001	Black	$79.95
PSC-905-1003	Orange	$79.95
PSC-905-1004	Yellow	$79.95
PSC-905-1005	Silver	$79.95
PSC-905-1007	Graphite	$79.95
910 Series Cases, with foam Ext. Dimensions: 14.3" L x 11.1" W x 4.7" H		
PSC-910-1000	Tan	$84.95
PSC-910-1001	Black	$84.95
PSC-910-1002	Lime	$84.95
PSC-910-1003	Orange	$84.95
PSC-910-1004	Yellow	$84.95
PSC-910-1005	Silver	$84.95
PSC-910-1006	Olive	$84.95
PSC-910-1007	Graphite	$84.95
PSC-910-1008	Blue	$84.95
PSC-910-1009	Red	$80.95
935 Series Wheeled Cases, with foam Ext. Dimensions: 22" L x 14" W x 9" H		
PSC-935-1001	Black	$254.95
PSC-935-1003	Orange	$254.95
PSC-935-1004	Yellow	$254.95
PSC-935-1005	Silver	$254.95
PSC-935-1006	Olive	$254.95
PSC-935-1007	Graphite	$254.95
PSC-935-1009	Red	$254.95
960 Series Wheeled Cases, with foam Ext. Dimensions: 25.4" L x 20" W x 14.5" H		
PSC-960-1001	Black	$374.95
PSC-960-1003	Orange	$374.95
PSC-960-1004	Yellow	$364.95
PSC-960-1007	Graphite	$374.95

DX ENGINEERING



DXE-CAB-WBOXES



DXE-POWERBOX-C1



SUM-G1240BLK

Partsbox Storage Cabinets and Part Totes

If you've got DX Engineering Partsbox Storage Cases scattered about your shack, now there's a sure-fire way to keep them together. Just slide the cases into a sturdy DX Engineering Partsbox Storage Cabinet to stay organized and enjoy quick access to the parts you need. Each stackable cabinet is 15-1/2" W x 16" H x 14-1/2" D. Drawers hold each Partsbox Storage Case snugly and slide out 10 inches. The Crimp Style Connector Partsbox and Anderson PowerPoles Connector Partsbox sold separately. Made from strong, durable plastic, Summit Racing Part Totes (8" L x 7 W" x 5.25" H) are a convenient way to carry around a small set of tools and/or components like connectors and fasteners wherever your ham radio pursuits take you.

DXE-CAB-WBOXES	Cabinet with 5 Trays/ 5 Empty Storage Boxes	$219.95
DXE-PARTSBOX-1	Partsbox Storage Box Only, Clear, Single Empty	$27.99

Partsbox Storage Case Kits

DXE-COAXBOX-C1	Partsbox w/Assortment of Crimp Style Coaxial Connectors	$143.54
DXE-POWERBOX-C1	Partsbox w/Assortment of PowerPole Connectors	$138.39

Part Totes

SUM-G1240BLK	Part Tote, Black	$11.99
SUM-G1240BLU	Part Tote, Blue	$11.99
SUM-G1240RED	Part Tote, Red	$13.99

plasticase NANUK PROFESSIONAL PROTECTIVE CASES



First Aid Logo Cases

These red equipment cases come in various sizes and feature a prominent first aid logo in white, plus all the ruggedness and durability you've come to expect from NANUK. Cases do not include foam insert. They're perfect for keeping medical and emergency supplies safe and secure during Field Day or any portable operation.

PSC-903-FSA9	First Aid Case, Series 903, 9.1" L x 6.8" W x 3.8" H	$39.95
PSC-904-FSA9	First Aid Case, Series 904, 10.2" L x 7.9" W x 4.5" H	$49.95
PSC-905-FSA9	First Aid Case, Series 905, 12.5" L x 10.1" W x 6.0" H	$64.95
PSC-908-FSA9	First Aid Case, Series 908, 12.5" L x 9.8" W x 8.0" H	$79.95
PSC-909-FSA9	First Aid Case, Series 909, 11.64" L x 9.0" W x 4.38" H	$59.95
PSC-915-FSA9	First Aid Case, Series 915, 15.8" L x 12.1" W x 6.8" H	$104.95
PSC-935-FSA9	First Aid Case, Series 935, Wheeled, 22" L x 14" W x 9" H;	$219.95



GATOR Cases



GCI-G-PRO-6U-19



GCI-GR-4L

Equipment Rack Cases

Made from rotationally-molded polyethylene (Pro Series) or lightweight molded polyethylene (Standard Series), virtually indestructible Equipment Rack Cases from Gator are ideal for housing radios, power supplies, antenna tuners and more. They feature recessed steel "butterfly" twist latches that keep the removable front and rear lids secure, non-slip rubber feet, ergonomic side handles, and included rails and screws. Cases are available in rack heights of four or six units. Choose from rack depths of 14.25" or 19". For equipment and accessories not built for rack mounting, DX Engineering also carries steel vented rack panels, steel rack utility shelves, and screw sets. Pro Series cases are available with wheels by special order.

GCI-G-PRO-4U-19	Pro Series Rack Case, 4 Units, 19" Depth	$209.99
GCI-G-PRO-6U-19	Pro Series Rack Case, 6 Units, 19" Depth	$249.99
GCI-GR-4L	Standard Series Rack Case, 4 Units, 19" Depth	$274.99
GCI-GR-4S	Standard Series Rack Case, 4 Units, 14.25" Depth	$249.99
GCI-GR-6L	Standard Series Rack Case, 6 Units, 19" Depth	$294.99
GCI-GR-6S	Standard Series Rack Case, 6 Units, 14.25" Depth	$259.99

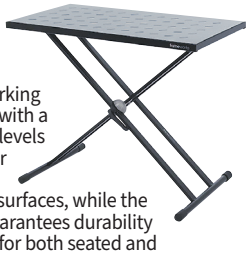
Utility Shelves and Panels

GCI-GRW-PNLVNT1	Flanged Vent Rack Panel, 1 Unit	$18.99
GCI-GRW-SHELF1	Utility Shelf, 1 Unit, 10" Deep;	$64.99
GCI-GRWSHELFVNT1	Utility Shelf, 1 Unit, 15" Deep, Vented	$84.99

Rack Screw Sets

GCI-GRW-SCRW025	#10-32 x 3/4", Pack of 25	$8.99
GCI-GRW-SCRW050	#10-32 x 3/4", Pack of 50	$21.99
GCI-GRW-SCRW100	#10-32 x 3/4", Pack of 100	$39.99

GATOR Cases



Portable Utility Table

A welcome companion for POTA activations, camping trips, or working in the shack, this utility tabletop with a double-X stand offers numerous levels of height adjustability to suit your needs. Its rubberized leveling foot ensures stability on uneven surfaces, while the heavy-duty steel construction guarantees durability and easy adjustability. Designed for both seated and standing use, the table locks in a closed position for effortless portability. It has a 100 lb. weight capacity, and the tabletop surface measures 32.25" L x 18.25 W".

GCI-STDTBLTOPSET Portable Utility Table **$149.99**

Visit DXEngineering.com for the latest limited-time offers and special savings!

⚠ **WARNING:** For Proposition 65 information, see p. 3

DX Engineering Sport Bag



An ideal travel companion, this sport bag can hold everything from your spare cables and gear to an extra pair of socks for soggy Field Days. Made from polyester cloth with a PVC coating for moisture resistance. The padded foam bag has several zippered pockets—including one big enough for a pair of shoes. The bag's detachable strap makes it easy to sling over your shoulder.

DXE-SPORTBAG2017 Sport Bag **$59.99**

DX Engineering Tote Bag



Let DX Engineering help you carry that weight! This well-made, 100% polyester zippered bag makes a great companion at Hamfests, Field Day, or for a trip to the grocery to pick up strong coffee and munchies for that 48-hour contesting marathon. It boasts ample room for small gear, snacks, convention freebies and whatever else you can't do without. Two mesh side pockets and one large outside front pocket keep your stuff secure, and its reinforced, adjustable straps are perfect for comfortable carrying or hauling on the shoulder.

DXE-TOTE-BK-RD Tote Bag **$27.99**

DX Engineering Giant Tool Bag



What better place to store your DX Engineering tools and whatever else you're taking into the field, or keeping handy in the shack, than with a DX Engineering Giant Tool Bag. The well-built canvas bag with heavy-duty, two-way zipper enclosure has plenty of space for the tools, hardware, and fasteners you need to keep your station well maintained and on the air. The 20" x 11"x 10" water-repellant bag features a reinforced bottom, anti-skid rubber feet, and 27 pockets—21 outside and six inside.

DXE-TOOLBAG Giant Tool Bag **$21.99**

DX Engineering Cinch Bag



This small, lightweight backpack-style book bag will make toting stuff at your next operating event a "cinch." The dark charcoal, 100% cotton bag features a double drawstring with a plastic clasp at the top to keep it "cinched up" and your valuables secure. A zippered outer pouch lets you stash even more items. Two reinforced adjustable straps enable you to use it like a backpack for outdoor adventures or hands-free bargain-hunting at hamfest flea markets. As a finishing touch, the DX Engineering logo is embroidered on the back. A handy accessory for adults or kids.

DXE-CINCHPACK Canvas Cinch Bag **$28.99**

New!

KLEIN TOOLS®



Klein Tools Tool Pouches

If you're a linesman, an electrician, a plumber, or just an everyday hands-on worker, these tool pouches can be a valuable asset on every job. Made from high-quality materials and with countless options available, you'll appreciate the look, durability, and functionality of your tool pouch. Sold as a set of 4.

KLE-5141 Black/Brown/Gray/Red **$39.97**

In-Stock Parts Typically Ship The Same Day.

REZ ANTENNA SYSTEMS™ New!



Ranger Pro Backpack

This backpack makes an ideal companion for REZ gear, including the Recon 40, Ranger 80, Scout, and Z series telescopic whips. The spacious main compartment (20" x 12") and three hook-and-loop gear pouches provide ample storage for your ZPOD tripod, radial kit, and other accessories. Its modular design makes it easy to reposition or swap out the pouches and integrate your own accessories to match your operating style. It features MOLLE webbing for additional attachments, secure mounting options for telescopic whips or other gear, padded back panel, durable shoulder straps, and waist strap.

REZ-RBP-B Ranger Pro Backpack **$85.00**

REZ ANTENNA SYSTEMS™



Backpacks

REZ backpacks are designed for taking your gear into the field for portable ops, camping, mountain-topping, and other outdoor adventures. These large MOLLE (Modular Lightweight Load-Carrying Equipment) backpacks feature zipper sections, pockets, and webbing to secure all of your portable gear. Imagine being able to tote an antenna, 100W transceiver, coax, battery, and laptop! Made from rugged, water-resistant coated 600D fabric, they feature a large molded top carry handle and well-padded straps.

REZ-RB-T MOLLE Backpack, Tan **$60.00**
REZ-RB-OD MOLLE Backpack, Olive Drab **$60.00**
REZ-RB-G MOLLE Backpack, Gray **$60.00**
REZ-RB-BK MOLLE Backpack, Black **$60.00**

shad CIRCUITSOW MISSION CRITICAL OUTDOOR EQUIPMENT



SDC-SC-AP88-BM

New!



SDC-SC-UP44-CY

Antenna & Gear Pouches

These great-looking and tough POTA-friendly pouches securely store cables, antennas, and other essential gear for radio communications. Compact and versatile, they fit easily into a backpack, day pack, or other gear system. They feature a large front zippered pocket and two main dividers for organized storage of your equipment. Constructed from rugged 1000 Denier MIL-spec nylon and equipped with durable YKK zippers, these made-in-the-USA pouches are built to last. Choose from these sizes in either Coyote or Black Multi-Cam colors: 4" x 4", 4" x 10", 5" x 8", 7" x 7", 7" x 12", and 8" x 8".

Antenna & Gear Pouch

SDC-SC-AP88-BM Black Multi-Cam, 8" x 8" **$42.00**
SDC-SC-AP88-CY Coyote, 8" x 8" **$42.00**
SDC-SC-UP58-BM Black Multi-Cam, 5" x 8" **$18.00**
SDC-SC-UP58-CY Coyote, 5" x 8" **$18.00**

Utility & Gear Pouch

SDC-SC-UP41-BM Black Multi-Cam, 4" x 10" **$18.00**
SDC-SC-UP41-CY Coyote, 4" x 10" **$18.00**
SDC-SC-UP44-BM Black Multi-Cam, 4" x 4" **$16.00**
SDC-SC-UP44-CY Coyote, 4" x 4" **$16.00**
SDC-SC-UP71-BM Black Multi-Cam, 7" x 12" **$24.00**
SDC-SC-UP71-CY Coyote, 7" x 12" **$24.00**
SDC-SC-UP77-BM Black Multi-Cam, 7" x 7" **$22.00**
SDC-SC-UP77-CY Coyote, 7" x 7" **$22.00**

CHAMELEON ANTENNA™ New!



CHA DPACK Duffle Bag

Here's a great way to carry your portable gear into the field. This large, (9.8" x 9.8"x 15.7") 20 lb. capacity bag features a handle to carry it like a duffle bag and a pair of padded shoulder straps to carry it on your back so your hands are free for hiking poles or other accessories. Made of 900D Oxford fabric, the bag is water- and abrasion-resistant and can handle most of what you can throw at it.

CHA-DPACK Canvas Duffle Bag **$40.00**



CHAMELEON ANTENNA™ New!

CHA Sling Bag



This is the perfect companion for your Chameleon MPAS 2.0 series antenna and accessories. It's made with water- and abrasion-resistant 900D Oxford cloth for durability wherever you go. It features a pair of large pockets on the front with adjustable buckle closures for small items such as matching networks and coax. Internally, the 30" x 6" bag has straps for holding items in place. A padded shoulder strap ensures comfort while carrying it in a sling configuration. Padded handles on the side ensure comfort and options for transport. MOLLE straps provide additional points to anchor items for successful portable operation.

CHA-SLING-BAG **$80.00**

ARRL Navy Canvas Backpack

This ARRL-themed backpack is a great way to carry small pieces of equipment when you operate from a remote location. The backpack has a faux-leather bottom, accents, and pulls; a large main compartment; front and top zippered pockets; a top handle; and padded adjustable shoulder straps.



ARR-6701 ARRL Backpack **$30.00**

⚠ **WARNING:** For Proposition 65 information, see p. 3

Penetrox™ A Electrical Joint Compound



Use Penetrox A Electrical Joint Compound to ensure a proper electrical connection between your aluminum and copper metal parts. This stuff works great on conductors, telescoping aluminum tubing, or other antenna and grounding components. Penetrox A Electrical Joint Compound ensures high conductivity at all voltage levels by preventing corrosion and oxidation. It is perfect for all aluminum-to-aluminum, aluminum-to-copper tubing or bare conductor connections; you should not use this on rubber or polyethylene insulated wire.

DXE-P8A Penetrox A Electrical Joint Compound, 8 Oz. Bottle **$22.99**

DXE-PENA-1-2 Penetrox A Electrical Joint Compound, 1/2 Oz. Tube..... **$7.59**

Dielectric Grease



Isolate precision electrical connections and seal out moisture. There are hundreds of uses for Dielectric grease, ranging from coax connectors and spark plug boots to bulb sockets and panel feed-throughs.

PTX-22058 Dielectric Grease, 3 Oz. Tube **$15.99**

Hazardous, limited to domestic UPS Ground shipping only.



PACKOUT Organizers

Milwaukee PACKOUT organizers are durable and versatile. They are constructed with impact-resistant materials to withstand harsh jobsite environments, and are IP65 rated to protect your tools, accessories, and small parts from rain and other jobsite debris. Available with different internal configurations, all models feature removable storage bins and transparent lids that seal the organizers to prevent contents from migrating and shifting during transport, as well as to also allow quick and easy identification of contents. They are equipped with heavy-duty latches and reinforced hinges to ensure the contents stay contained and protected. Milwaukee's PACKOUT modular organizers allow you to customize and build your own storage system to easily transport and arrange your tools and accessories.

PACKOUT Organizers .....from **$31.97**

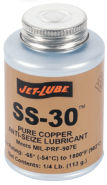


Transparent Parts Organizer/Storage Case

Have stacks of mystery containers around the shack where you're just not sure what's inside? This clear parts case lets you organize stray items and get an immediate overview of its contents. It's a great option for storing your collection of cable connectors and nuts, bolts, and washers. Made from durable polypropylene, the case measures 7" W x 11" L x 1.75" D and features 24 compartments, each customizable to ensure optimal separation and organization of small parts and tools.

ETL-900-040 Plastic Parts Organizer/Storage Case..... **$8.99**

Jet-Lube® SS-30™



An absolute must-have when making metal-to-metal connections on outdoor gear. Jet-Lube SS-30 Pure Copper is both an anti-seize lubricant and a conductive termination compound. That means it will prevent galling and create a more reliable electrical connection.

JTL-12555 0.25 Lb. Brush-Top Can..... **$33.99**

JTL-12502 0.50 Lb. Brush-Top Can..... **$46.99**

JTL-12504 1.00 Lb. Brush-Top Can **$69.99**

Electrical Moisture Sealing Tape



Good up to 600 volts, use this tape to make your outdoor cables and connections watertight. It can also cover your terminals and works well for general household electrical connections, like floodlights and lampposts. The tape is self-fusing and resistant to UV rays and corrosion. It is sold in 2.5" by 10' rolls, or in handy 2.5" x 2.5" square pads.

TES-06147 Electrical Moisture Sealant Tape, 10' Roll.....**$34.99**

TES-06149 Electrical Moisture Sealant Pads, Box of 25.....**$23.99**

Scotch® Super 88 Premium Vinyl Electrical Tape



Thicker and stronger than most vinyl electrical tapes, Super 88 is an excellent way to keep moisture out of your connectors. It insulates up to 600 volts and is resistant to sunlight, moisture, corrosion and chemicals. Plus, it's designed to perform well in temperatures from 0-220°F (-18-105°C).

TES-06143 Premium Vinyl Electrical Tape **$12.99**

Scotch® Super 33+ Vinyl Electrical Tape



Scotch Super 33+ is highly conformable and stretchable, making it suitable for all weather applications. The tape combines PVC backing with excellent electrical insulation (up to 600V) to provide protective jacketing for cable splices. It is recommended as a protective overwrap for 3M Temflex™ Rubber Splicing Tape when used for RF connector weatherproofing.

TES-7100201470 Vinyl Electrical Tape **$10.99**

Temflex™ 2155 Rubber Splicing Tape



3M Temflex 2155 Rubber Splicing Tape is a conformable, self-fusing rubber electrical insulating tape. Designed for low voltage electrical insulating and moisture sealing applications, the rubber-based tape is capable of operating in temperatures up to 80 degrees C. It is compatible with synthetic cable and wire insulations, and is not corrosive to aluminum or copper conductors. For outdoor use, the tape should be protected from UV deterioration with an overwrap of Scotch Super 33+ Vinyl Electrical Tape.

TES-2155 Rubber Splicing Tape.....**$8.99**

Never-Seez®



- Prevents galling and galvanic corrosion
- Protects metal parts against rust, corrosion and seizure

DXE-NSBT8 Never-Seez, 8 Oz. Brush Top.....**$25.99**

DXE-NMCBT8 Never-Seez, Marine Grade, 8 Oz. Brush Top.....**$36.99**

Hazardous, limited to domestic UPS Ground shipping only.

DeoxIT® D5 Contact Cleaner



DeoxIT D5 has become synonymous with electrical cleaning solutions, and for good reason. When sprayed on an electrical contact, it dissolves oxidation and corrosion to improve conductivity. The solution fills in microscopic gaps, essentially resealing the original metal. That makes DeoxIT D5 ideal for connectors, relays, bulb/fuse receptacles, pots, cartridge slots, etc. In RF applications, DeoxIT D5 has been shown to reduce arcing, RFI and connector wear. It's safe for plastics and dries without a residue. With adjustable L/M/H valve.

CAG-D5S-6-LMH DeoxIT® D5 Contact Cleaner.....**$23.95**



DeoxIT® Cleaning Solutions from CAIG Laboratories

Regular care and maintenance of sensitive electronic gear is a crucial part of station performance. Cleaning products from CAIG Laboratories are specially formulated to be safe and effective on precision telecommunications equipment. They can rejuvenate old gear, making your audio clearer, signal stronger and your station more reliable.

DeoxIT® Gold G5 Spray
It's formulated specifically for gold-plated connectors, but works equally well on silver, brass and copper.

CAG-G5S-6 DeoxIT Gold G5 Spray **$34.95**

DeoxIT® DN5 Spray
This non-flammable contact cleaner spray dries quickly and won't drip, perfect for use around heat or on a crowded PCB.

CAG-DN5S-6N DeoxIT DN5 Spray **$38.95**

DeoxIT® D100 Spray
D100 is pure, 100% DeoxIT Cleaner for areas that need maximum lubrication. To reduce overspray, the can has a metered one-shot dispenser.

CAG-D100S-2 DeoxIT D100 Spray.....**$27.95**

DeoxIT® Screen Cleaner
Don't use harmful ammonia-based window cleaner on your electronic displays and screens, use this. It comes with a microfiber cloth.

CAG-CCS-503 DeoxIT Screen Cleaner.....**$16.95**

RTV Silicone



Have you ever sealed a piece of electronic gear with RTV, then opened it later to find it corroded inside? It's not the rain that corroded it. It's the RTV! Normal RTV gives off acetic acid when it cures. That's the vinegar smell. DX Engineering has located a Neutral Care RTV made right here in Ohio that is non-corrosive and safe for sealing baluns and other electronic gear installed outside. It applies like "normal" RTV, dries in one hour, and cures in 24 hours at 70° F. And it doesn't smell like vinegar! It provides a waterproof, flexible, weather-resistant seal around metal, glass, rubber, and more, while withstanding temperatures up to 500° F.

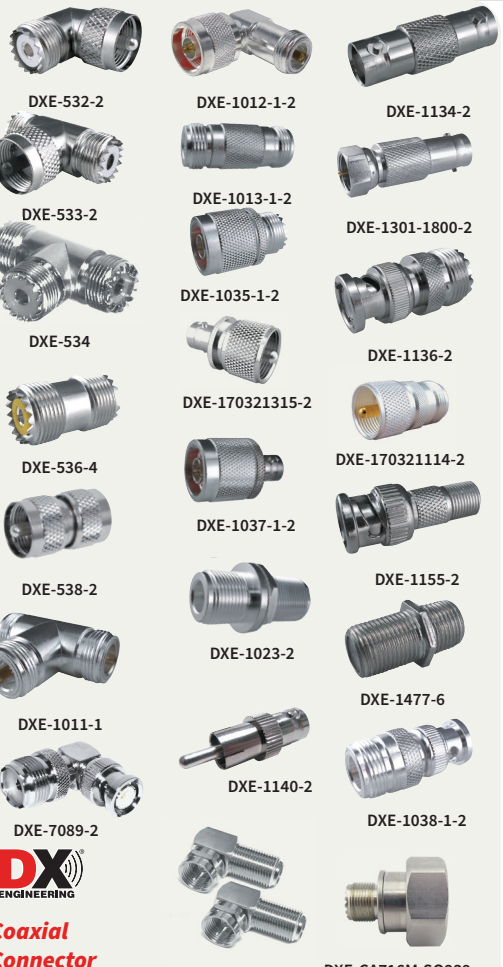
PTX-82180 Ultra Black RTV Silicone, 3.35 Oz. Tube.....**$7.99**

PTX-80050 Clear RTV Silicone, 3 Oz. Tube.....**$6.99**

Hazardous, limited to domestic UPS Ground shipping only.

Join our crew on Facebook for news and exclusive deals!

⚠ **WARNING:** For Proposition 65 information, see p. 3



Coaxial Connector Adapters

DX Engineering has a selection of adapters for connecting cables with different type connectors.

DX Engineering has designed and built no-compromise adapters to ensure your station isn't hampered with signal loss. Find more online at DXEngineering.com.

Part Number	Adapter Type	Qty	Price
DXE-18101815RA-2	F-Type Male to F-Type Female	2	$7.99
DXE-CA716M-SO239	7/16 DIN Male to SO-239	1	$63.99
DXE-SS1701801-2	PL-259 to F Female	2	$10.69
DXE-532-2	UHF Right Angle	2	$24.99
DXE-533-2	UHF Tee, 1 PL-259, 2 SO-239	2	$30.99
DXE-534	UHF Tee, Triple SO-239	1	$14.99
DXE-536-4	UHF Female Barrel	4	$24.99
DXE-538-2	UHF Double Male	2	$16.99
DXE-545-2	UHF Female to BNC Female	2	$24.99
DXE-621-2	Mini UHF Male to UHF Fem	2	$21.99
DXE-626-2	Mini UHF Female to PL-259	2	$29.99
DXE-1011-1	N Tee, All Female	1	$23.99
DXE-1012-1-2	N Right Angle	2	$44.99
DXE-1013-1-2	N Double Female Barrel	2	$28.99
DXE-1035-1-2	N Male to UHF Female	2	$29.99
DXE-1136-2	BNC Male to UHF Female, Straight	2	$23.99
DXE-170321114-2	N Female to UHF Male	2	$17.99
DXE-1037-1-2	N Male to BNC Female	2	$29.99
DXE-1023-2	N Double Female Bulkhead	2	$34.99
DXE-1134-2	BNC Double Female Barrel	2	$17.99
DXE-1140-2	BNC Female to RCA Male	2	$19.99
DXE-11141704-2	N Female to UHF Female	2	$13.99
DXE-1301-1800-2	BNC Female to F Male	2	$10.99
DXE-170321315-2	BNC Female to UHF Male	2	$15.69
DXE-1477-6	F Double Female Bulkhead	6	$5.49
DXE-1038-1-2	N Female to BNC Male	2	$32.99

Female Bulkhead Connectors


DXE-363-SST


DXE-363-SST-NI

These high-quality bulkhead connectors use silver plated outer and inner conductors and a PTFE insulator. The connectors have very low-loss and high electrical breakdown. They come with two nuts to secure the connector to our Radial Plate or other flat surface. The connectors ensure the radial ground system, the antenna ground and the feedline shield are common. They can also be used for joining two pieces of coax with male PL-259s together.

DXE-363-SST Dual SO-239 Bulkhead Connector with SO-239 Socket.....**$11.99**

DXE-363-SST-NI Bulkhead-style, SO-239 to SO-239, Gold Center.....**$10.99**


DXE-SO239D-1


DXE-SO239BKT-1

Connectors and Mounting Solutions

If you're building your own gear or do repair work, then you've probably had to install a lot of SO-239 connectors. DX Engineering carries several Amphenol and non-Amphenol brand SO-239 chassis mount options. The connectors come with the correct bolts, flat washers, star washers and Nylok locking nuts. These are a perfect fit for the DX Engineering Radial Plate.

The DX Engineering SO-239 Mounting Bracket lets you install an SO-239 practically anywhere. It's a great match for the DXE-S0239D-1 connector. The connector also works well in any hole-mount/chassis-mount location.

The DX Engineering Installation Tool Kit is an excellent way to speed up jobs and reduce hand fatigue.

DXE-112-KIT SO-239 with Silver Plating and PTFE Insulation **$16.99**

DXE-VC-0612 Black Vinyl Cap for SO-239, Pack of 20.....**$12.99**

DXE-SO239BKT-1 SO-239 Mounting Bracket **$7.49**

DXE-SO239D-1 SO-239 Chassis Mt. Connector....**$7.49**

DXE-SO239CS8X-6 SO-239 Crimp/Solder Connectors for RG-8X/LMR-240, Pack of 6 .....**$29.99**

SMA Plug and Jack Coaxial RF Connector Adapters



These coaxial RF connector adapters deliver the long-lasting, reliable performance hams have come to expect from DX Engineering branded station accessories. All listed adapters are straight and come in pairs.

DXE-19001900-2 SMA Male to SMA Male.....**$9.99**

DXE-19002500-2 SMA Male to Type-N Female.....**$11.99**

DXE-1905-1703-2 SMA Female to UHF/M PL-259 ....**$16.99**

DXE-1903-1110-2 SMA Male to Type-N Male.....**$11.99**

DXE-1905-1110-2 SMA Female to Type-N Male.....**$13.99**

DXE-1905-1803-2 SMA Female to Type-F Female **$7.99**

DXE-1903-1703-2 SMA Male to UHF/M PL-259.....**$15.99**

DXE-1903-1704-2 SMA Male to UHF/F SO-239.....**$16.99**

DXE-1905-1703-2 SMA Female to UHF/M PL-259 ....**$16.99**

DXE-1903-1905R2 SMA Female to SMA Male.....**$14.99**

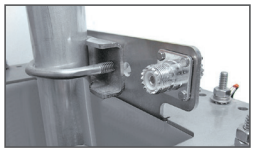
Chassis Mount Coaxial Connector Kits

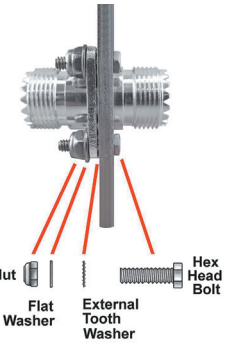


Make sure your connections are sturdy and reliable. Amphenol RF makes kits that combine the connector, plus the corresponding washers, nuts and bolts you need to complete a proper installation.

AML-83-798-2-KIT SO-239 Chassis Mount Kit, PTFE Dielectric, Pack of 2 .....**$39.57**

AML-83-1R-2-KIT SO-239 Chassis Mount Kit, PBT Dielectric, Pack of 2 .....**$27.57**



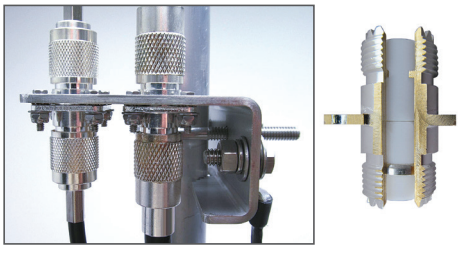


Silver-Plated UHF Flanged Double Female Bulkhead Connector Kit

From broken continuity to an impedance mismatch, a faulty bulkhead connector can introduce several problems into your station. To solve these issues, DX Engineering has designed a 50 Ω bulkhead SO-239 connector that is leaps-and-bounds better than ordinary varieties. For starters, it's silver plated to promote excellent RF continuity. Plus, this connector has a solid PTFE dielectric at its midpoint, which helps maintain consistent impedance and connectivity. It handles frequencies from DC to 500 MHz.

The connector is an excellent complement to DX Engineering's patented Radial Plate and many other bulkhead-mount applications. Sold as a kit, the connector includes a set of four stainless steel bolts, nylon locking nuts, star washers, and flat washers.

DXE-UHF-FDFB-KIT Bulkhead Connector Kit.....**$18.28**

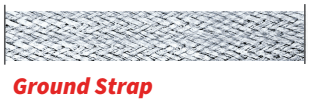


Two DXE-UHF-FDFB shown mounted to a DXE-CCB-150 using a hardware kit DXE-FSM-HWK

3" UHF Nickel Double Female Bulkhead Connector Sets

These connectors feature a D-shaped semi-cylindrical barrel with a flat side, which allows them to lock in place in a specifically cut chassis or bracket. Comes with 2 hex nuts and star washers on each barrel. Two sets included.

DXE-UHF-NDFB-2 .....**$29.99**



Ground Strap

DX Engineering offers quality tinned copper braid in 5 widths for indoor grounding applications. It is sold per foot to accommodate almost any project. Very long per-foot lengths may not be continuous—contact Customer Service to discuss your length needs if continuous length is required. The strap is available in these sizes:

DXE-TCB-038 3/8" wide x 1/32" thick.... per foot **$0.85**

DXE-TCB-050 1/2" wide x .030" thick ... per foot **$1.02**

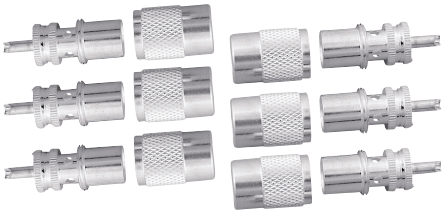
DXE-TCB-063 5/8" wide x .030" thick ... per foot **$1.52**

DXE-TCB-075 3/4" wide x .040" thick ... per foot **$1.87**

DXE-TCB-100 1" wide x .045" thick ..... per foot **$2.25**

We stock many more items than we can show. See them all at DXEngineering.com!

⚠ **WARNING:** For Proposition 65 information, see p. 3



DX ENGINEERING

Silver/PTFE Coax Connectors

This superior solder-on PL-259 connector uses silver plated outer and inner conductors and a PTFE insulator. The connector has very low loss and high electrical breakdown. It fits directly on RG-8, RG-213, 9913 and other cables with a nominal .405 inch OD jacket size.

Use a DXE-UG175 reducer with this connector to fit RG-58A/U and/or LMR195 coax, and a DXE-UG176S-6 reducer to fit RG-8X coax.

DXE-PL259-6	PL-259 Connector, Pack of 6	**$39.99**
DXE-UG176S-6	RG-8X Reducer for PL-259, Silver Plated, Pack of 6	**$13.29**
DXE-UG175S-6	RG-58 Reducer for PL-259, Silver Plated, Pack of 6	**$11.99**

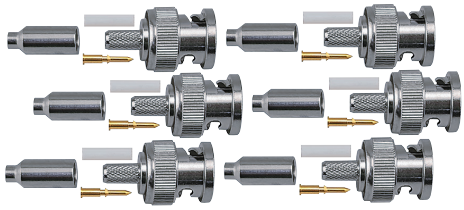
Amphenol® RF



PL-259 Connector

This PL-259 from Amphenol RF is a solder-on connector sized precisely for 50 Ω RG-8, RG-9, RG-213 and RG-225 coaxial cable. It's tailored to 0-300 MHz and will handle 500 volts (peak).

AML-83-1SP-6	PL-259 Connector, Pack of 6	**$68.99**



DX ENGINEERING

BNC Male RG-174 Coaxial Connectors

These high-quality coaxial connectors are specifically made for use on DXE-RG-174V, RG-174, and other cables with a 0.110 OD jacket, 0.060 OD dielectric, and 26 AWG center conductor. They terminate RG-174 cable with a crimped shield, soldered center pin type connector that features a nickel-plate body and shell, PTFE dielectric, silicone O-ring, and gold-plated center pin.

DXE-BNCM-174-6	BNC Male RG-174 Coaxial Connectors, Set of 6	**$19.99**

DX ENGINEERING



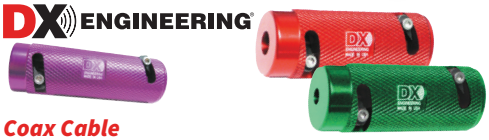
Coaxial Connector Crimp Rings

Always have these handy when you lose one, step on one, or otherwise find yourself short on crimp rings. Available in packs of 10, these parts are a critical component for crimp shield connector assembly. Choose from small and large sizes.

DXE-CRIMP240RING	Small Size to Fit LMR®-240 & 8X Connectors	**$9.99**
DXE-CRIMP400RING	Large Size for LMR®-400, 8U, 213U, & 400 MAX PL-259/ UHF Male Connectors	**$10.99**

Prices are subject to change without notice.

DX ENGINEERING



Coax Cable Strippers for 50 Ω Cable

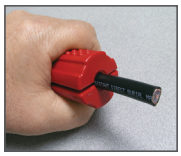
These DX Engineering strippers prepare 50 Ω coax cable for installation of a solder-on PL-259 connector.

- Work on foam or solid dielectric cable
- Precision, two-step operation
- No nicks or scratches to conductor
- Premium, long-lasting cutter blades

DXE-UT-8213	Coax Cable Stripper for RG-8, RG-213, 9913 and Similar Size Cable, Red	**$72.99**
DXE-UT-808X	Coax Cable Stripper for RG-8X and Belden 9258 Cable, Green	**$87.99**
DXE-UT-8213LR	Coax Cable Stripper for RG-213, RG-8 and Similar Size Cable, Purple	**$100.99**
DXE-UT-RB-HD*	Pack of Two Heavy-Duty Replacement Blades for UT-8 Tools	**$29.49**

***Also fits Cablematic UT-8000**

DX ENGINEERING



Cable Grippers

These hand grippers are the perfect complement to DX Engineering's Coaxial Cable Prep Tools. They help you securely hold your cable while you're doing the proper prep. They're also effective for holding the cable as you're pulling it off a spool or out of a box for a run. These grippers have been redesigned to incorporate a hinge between the two halves. This makes it easier to store and manipulate the grippers.



DXE-CGH-8U	Cable Gripper for RG-8U Size Cable, Red	**$19.99**
DXE-CGH-8X	Cable Gripper for RG-8X Size Cable, Green	**$19.99**
DXE-CGH-195	Cable Gripper for RG-400 Size Cable, Mocha	**$16.99**

SUMMIT RACING EQUIPMENT



Long Reach Pliers

This handy tool is perfect for installing and removing connectors in hard-to-reach places and on crowded panels. The vinyl covered jaws are well suited to both Type N and PL-259 connectors, while the no- slip grip gives you plenty of leverage. Use these pliers and you'll avoid cramped hands and fatigued fingers. Color may vary.

SUM-900071	Long Reach Pliers	**$10.99**

DX ENGINEERING



SO-239 Connector Installation Tool Kit

This versatile tool kit will help you install chassis or bulkhead mount SO-239 coax connectors. It includes a special stainless steel wrench. One end has a 3/4 inch semi-box wrench with a pass-through for coaxial cable—perfect for tightening the large nut used to mount bulkhead connectors. The other end is a 3/16 inch box wrench for tightening mounting nuts with SO-239 hardware. Also included is a multi-purpose 6-in-1 screwdriver/nutdriver tool with the following bits:

- 1/4 inch nutdriver
- 5/16 inch nutdriver
- 1/4 inch flathead
- #1 Phillips
- 3/16 inch flathead
- #2 Phillips

DXE-T001	SO-239 Connector Installation Tool Kit	**$27.99**



DXE-UT-KIT4

DX ENGINEERING

Coaxial Cable Tool Kits

Carry everything you need to prep and install soldered connectors on your coaxial cable. The Basic Kit is tailored for RG-213 and RG-8 cable with PL-259 connectors. It includes a stripping tool, gripping tool, specialized PL-259 assembly tool, cable shears and a carrying case.

Upgrading to the Complete Kit gives you the tools to work with RG-8/X size cable and Type N connectors. It comes with specialized stripping, gripping and assembly tools. You'll also get a braid trimmer and replacement blades for the stripping tool.

If you've been using your tool case a lot and the foam is starting to disintegrate, DX Engineering now offers replacement foam.

DXE-UT-KIT3	Basic Coax Tool Kit	**$181.99**
DXE-UT-KIT4	Complete Coax Tool Kit	**$349.99**
DXE-UT-CASE-FOAM	Replacement Foam for the Basic/Complete Case	**$31.99**



DXE-8X-PREP-P

DX ENGINEERING

Coaxial Cable Prep Tool Combos

These combos make working with coaxial cable much easier. They include one of our Coaxial Cable Grippers and a perfectly matched Coaxial Cable Stripper. For solder-on PL-259 connectors.

DXE-8X-PREP-P	Prep Tool Combo, for RG-8X and Similar-Size Cable	**$107.98**
DXE-8U-PREP-P	Prep Tool Combo, for RG-8U and Similar-Size Cable	**$92.98**

DX ENGINEERING



Connector Assembly Tools

These assembly tools allow simple threading of connector bodies onto the vinyl jacket of RG-8/U, RG-213/U and other similar size cables. The DXE-UT-80P assembly tool is for PL-259 connectors, and the DXE-UT-80N assembly is for two-piece Type N connectors. Assembly is simple. Strip the cable with the DXE-UT-8213 Cable Stripping Tool, then use the appropriate connector assembly tool and thread the connector body onto the stripped cable end. A visual guide at the end of the tools allows easy viewing of the cable center conductor for proper depth. You get a perfect and easy connector installation every time.

DXE-UT-80P	Connector Assembly Tool for PL-259 Connectors, Black	**$38.99**
DXE-UT-80N	Connector Assembly Tool for 2-piece Type N Connectors, Blue	**$33.99**

⚠ **WARNING:** For Proposition 65 information, see p. 3



Coaxial Cable Prep Tools for Crimp Connectors

Tools to easily and properly prepare your coaxial cable for a DX Engineering or Amphenol Connex crimp connector and to ensure optimal station performance. Available for many cable types.

Just place the end of your coax against the internal stop, close the cutter and twist. Cable is cut to the correct measurement. Place the coax in the other side of the cutter, close it and withdraw the cable—your coax jacket is now slit for easy removal of the cut portions. Select from a complete kit, or buy each cutter separately.



Part Number	Cable Type	Connector Type	Price
DXE-UT-240C-N1	8X (0.242" OD)	Type-N and BNC	**$44.49**
DXE-UT-240C-P1	8X (0.242" OD)	PL-259	**$44.49**
DXE-UT-405C-N1	8U/400 (0.405" OD)	Type-N and BNC	**$44.99**
DXE-UT-405C-P1	8U/400 (0.405" OD)	PL-259	**$44.99**
DXE-UT-KIT-CC1	Complete Kit with Tools Above and Case		**$319.99**

Next Generation Crimp/Solder UHF Male Connectors

Taking a "better mousetrap" approach, DX Engineering designed a revolutionary patented Next Generation PL-259 connector. It combines the best qualities of solder and crimp technologies for unparalleled reliability and the lowest loss. The crimp shield provides a 360° electro-mechanical connection, while the hand-soldered center pin ensures superior RF continuity. The connector features a silver-plated shell, body and center pin. A double-knurled body surface makes the PL-259 easier to install, too. It's a must-have crimp-style PL-259 for any coaxial cable, especially coax cables that use foil shields.

These are the same connectors found on all DX Engineering pre-made cable assemblies equipped with a PL-259; Essential for the lowest-loss connection possible.

DXE-PL259CS8U-6



DXE-PL259CS8X-6



Part Number	For Cable Type	Quantity	Price
DXE-PL259CS8U-6	RG-8U, LMR-400	6	**$39.99**
DXE-PL259CS8U-12	RG-8U, LMR-400	12	**$59.99**
DXE-PL259CS8U-24	RG-8U, LMR-400	24	**$114.99**
DXE-PL259CS8X-6	RG-8X, LMR-240	6	**$33.99**
DXE-PL259CS8X-12	RG-8X, LMR-240	12	**$58.99**
DXE-PL259CS8X-24	RG-8X, LMR-240	24	**$109.99**

Connectors and Adapters

Before you buy new gear, make sure you have the right adapters to install it. Amphenol RF makes must-have connector solutions. Spend less time building cable and more time on the air.

AML-172102-2



AML-112533-4



AML-000-2900



AML-000-4400



AML-83-877



AML-83-1J-2



AML-83-1R-2



AML-83-798-2



AML-83878RFX-2



Part Number	Connector End 1	Connector End 2	Design	Price
AML-112533-4†	BNC Male	RG-8X, LMR-240	Straight	**$16.59**
AML-000-2900	BNC Male	SO-239	Straight	**$41.99**
AML-31-28	BNC Female	PL-259	Straight	**$38.99**
AML-31-4427-2*	BNC Male	Crimp	For RG-142, -400	**$37.99**
AML-000-4400	Type N Male	SO-239	Straight	**$32.59**
AML-83-877	PL-259	PL-259	Barrel	**$62.99**
AML-172123-2*	Type N Female	Type N Female	Straight	**$29.99**
AML-172102-2*	Type N Male	Crimp	For RG-213, -8, -393	**$20.99**
AML-83-1J-2*	SO-239	SO-239	Barrel	**$41.99**
AML-83-1R-2*	Solder Terminal	SO-239	Chassis Mount	**$16.99**
AML-83-798-2*	Solder Terminal	SO-239	Chassis Mount	**$28.99**
AML-83878RFX-2*	Solder Terminal	SO-239	Bulkhead	**$21.99**
AML-83-1AP-2*	PL-259	SO-239	Right Angle	**$58.99**
AML-082-97RFX-2*	Type N Female	4-Hole Flange	Chassis Mount	**$21.99**

*Sold in a package of two † Sold in a package of four



DXE-UT-KIT-CRMP2

Ultra-Grip 2 Crimp Connector Hand Tool Kit

This kit includes everything you need to make professional-quality crimps on coaxial and Powerpole® connectors. The ratcheting steel crimper is designed to fit ergonomically in your hand to reduce fatigue. The kit comes with the Ultra-Grip 2 Tool, 5 crimp dies, shears, braid trimmer, Allen wrench and case. You get crimp dies precisely sized for RG-8U, LMR-400, RG-8X and LMR-240 type cables, along with specialized dies for Powerpole 15A, 30A and 45A connectors, as well as insulated and un-insulated wire terminals.

The Ultra-Grip 2 Crimp Tool, interchangeable dies and specialized carrying case are also available separately. You can expand the functionality of your UT-CRIMP and UT-CRMP2 Crimp Tool with extra crimp dies. They're made to handle various common crimp connector types in several sizes.

DXE-UT-KIT-CRMP2	Complete Kit, 5 Die Sets	**$249.99**
DXE-UT-CRMP2	Crimp Tool for RG-8U/ LMR-400 Size Cable	**$72.98**
DXE-UT-CRMP2-8X	Crimp Tool for RG-8X/ LMR-240 Size Cable	**$71.98**
DXE-UT-CRMP2-PWR	Crimp Tool for Powerpole® 15, 30, 45A	**$67.98**
DXE-UT-DIE-INS	Crimp Die for Insulated 22-10 AWG Terminals	**$25.99**
DXE-UT-DIE-UNIS	Crimp Die for Uninsulated 22-8 AWG Terminals	**$25.99**
DXE-UT-LGFRM-HP	Hardware Pack for Crimp Tool (2 bolts)	**$6.99**

Amphenol® Connex

Solderless Crimp-On Connectors



AML-172102H-2

DX Engineering carries Amphenol Connex connectors to ensure your gear is operating at its full potential. Depending on the type, these crimp connectors feature nickel or silver plated bodies, gold or silver plated center pins and PTFE, or phenolic insulators. You can also find the proper crimping/stripping tools at DXEngineering.com.

Part Number	Connector	Fits Cable	Price
AML-112116-4	BNC Male Four Pack	RG-58, LMR®-195	**$13.99**
AML-172100-2	Type N Male Two Pack	RG-58, LMR®-195	**$15.99**
AML-172135-2	Type N Male Two Pack	RG-8X, LMR®-240	**$16.99**
AML-172102H-2	Type N Male Two Pack	DXE-8U 400MAX, LMR®-400	**$24.99**
AML-182100-4	UHF Male Four Pack	RG-58, LMR®-200	**$20.99**
AML-182102-4	UHF Male Four Pack	RG-213, RG-8, RG-393	**$26.99**
AML-18211510-4	UHF Male Four Pack	RG-8X, LMR®-240	**$44.99**
AML-18213010-4	UHF Male Four Pack	DXE-8U, DXE-400MAX, LMR®-400	**$45.99**

Our catalog is only the beginning! See thousands of products at DXEngineering.com

⚠ WARNING: For Proposition 65 information, see p. 3


TMV-EZ-240-NF-X

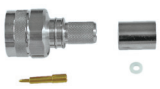

TMV-EZ-240-NMH-X


TMV-EZ-240-SM-X


TMV-EZ-400-716MX


TMV-EZ-400-NF-X


TMV-EZ-400-NMH-X


TMV-EZ-400-NMK-D


TMV-TC-240-BMRAD


TMV-EZ-600-716FX


TMV-EZ-600-NMC2D

TIMES MICROWAVE SYSTEMS An Amphenol Company

Coaxial Connectors

Though they're designed to work flawlessly with Times Microwave Systems' ® own designs, these connectors also work well on various other types of coaxial cable. They are offered in three different body designs: a familiar knurled type, a hex head for an open-end wrench and a hybrid knurled/nut mix.

Solderless Center Pin Connectors

DX Engineering now carries Times Microwave Solderless Center Pin Connectors in various body styles and connector types for fitment on specific LMR ® coaxial cables. You'll find a few in the table below. **Enter "TMV-EZ" at DXEngineering.com to view the entire lineup or enter "Coaxial Connector" to view the many options available.**

Part Number	Connector	Gender	Body	Fits Cable	Price
Crimp-On Center Pin Connector, Crimp Shield					
TMV-EZ-240-NF-X	Type N	Female	Knurled/Nut	LMR-240	**$14.19**
TMV-EZ-240-NMH-X	Type N	Male	Knurled/Nut	LMR-240	**$14.39**
TMV-EZ-240-SM-X	SMA	Male	Nut	LMR-240	**$10.69**
TMV-EZ-400-716MX	7-16 DIN	Male	Nut	LMR-400	**$25.99**
TMV-EZ-400-NF-X	Type N	Female	Knurled	LMR-400	**$19.89**
TMV-EZ-400-NMH-X	Type N	Male	Knurled/Nut	LMR-400	**$19.99**
TMV-EZ-400-TM-X	TNC	Male	Knurled/Nut	LMR-400	**$14.39**
TMV-EZ-400-TMRAX	TNC	Male	Right Angle	LMR-400	**$24.79**
TMV-EZ-600-716FX	7-16 DIN	Female	Knurled	LMR-600	**$136.99**
TMV-EZ-600-NMC2D	Type N	Male	Knurled/Nut	LMR-600	**$25.99**
TMV-EZ-600-NMH-X	Type N	Male	Knurled/Nut	LMR-600	**$22.75**
Solder-On Center Pin Connector, Crimp Shield					
TMV-TC-195-NMH-X	Type N	Male	Knurled/Nut	LMR-195	**$8.59**
TMV-TC-240-BMRAD	BNC	Male	Right Angle	LMR-240	**$20.99**
TMV-TC-240-BM-X	BNC	Male	Knurled	LMR-240	**$12.99**
TMV-TC-240-MUHF	PL-259	Male	Mini-UHF	LMR-240	**$5.09**
TMV-TC-240-NMH-X	Type N	Male	Knurled/Nut	LMR-240	**$15.89**
TMV-TC-400-NF-X	Type N	Female	Knurled	LMR-400	**$20.65**
TMV-TC-400-NMH-X	Type N	Male	Knurled/Nut	LMR-400	**$15.59**
TMV-TC-400-NMC-2	Type N	Male	Knurled/Nut	LMR-400	**$16.29**
Solderless Center Pin Connector					
TMV-EZ-400NMHRAX	Type N	Male	Right Angle	LMR-400	**$31.19**
TMV-EZ-600NMHRAX	Type N	Male	Right Angle	LMR-600	**$32.49**
TMV-EZ-195-BM-X	BNC	Male	Straight	LMR-195	**$12.59**
TMV-EZ-195-TM-X	TNC	Male	Straight	LMR-195	**$13.69**
TMV-EZ-195-UM-X	PL-259	Male	Straight	LMR 195/200	**$27.99**
TMV-EZ-240-UM-X	PL-259	Male	Straight	LMR-240	**$28.09**
TMV-EZ-400-UM-X	PL-259	Male	Straight	LMR-400	**$30.59**
TMV-EZ-400-UMRAX	PL-259	Male	Right Angle	LMR-400	**$50.59**
TMV-EZ-600-UM-X	PL-259	Male	Straight	LMR-600	**$34.35**
TMV-TC-240-SMSSX	SMA	Male	Straight	LMR-240	**$11.29**
TMV-TC-400-TM-X	TNC	Male	Straight	LMR-400	**$12.65**
TMV-TC-600-NHM-X	Type N	Male	Straight	LMR-600	**$21.45**

TIMES MICROWAVE SYSTEMS An Amphenol Company

Ground Kits

These RoHS-compliant ground kits for LMR® 240, 400, and 600 come with 36" lead, 1/4" and 3/8" universal lugs, weatherproof tinned copper strap, and hardware.



TMV-GK-S400TT LMR®-400 Size Cable..... **$45.99**
TMV-GK-S600TT LMR®-600 Size Cable..... **$37.99**
TMV-GK-S240TT LMR®-240 Size Cable..... **$34.65**

TIMES MICROWAVE SYSTEMS An Amphenol Company


TMV-CT-240200195


TMV-CT-U


TMV-CT-400-300


TMV-Y1719


TMV-Y1720

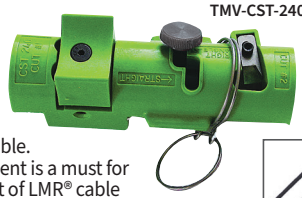
Coaxial Cable Crimping Tools

The final step of a connector installation is the proper electro-mechanical crimp contact. These tools are cable-size specific and optional die sets are available separately to expand the tools' versatility.

TMV-CT-240200195 Crimp Tool with Dies for LMR®-100/195/200/240 Cable .. **$230.99**
TMV-CT-400-300 Crimp Tool with Dies for LMR®-300/400 Cable **$224.99**
TMV-CT-U Crimp Tool, Dies Sold Separately **$503.99**
TMV-CT-600 Crimp Tool with Fixed Die for LMR-600 Cable **$203.99**
TMV-Y1719 Crimp Dies for 3/8" LMR®-400 Cable **$305.99**
TMV-Y1720 Crimp Dies for TC/EZ-600 Style Connectors **$305.99**

TIMES MICROWAVE SYSTEMS An Amphenol Company

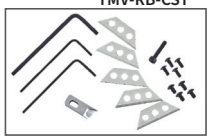
TMV-CST-240A



Coaxial Cable Prep Tools

Times Microwave offers prep tools tailored specifically to its cable. This professional-caliber equipment is a must for any Ham Operator who does a lot of LMR® cable assembly. Improper cable prep can have a dramatic affect on station performance, so ensure yours is correct. The CST-240A requires a separate deburring tool, while the 400/600 have built-in deburring capability.

TMV-RB-CST



DX Engineering has an enormous array of cable prep tools. Find them all at DXEngineering.com.

TMV-CST-240A Coaxial Cable Prep Tool for LMR®-240 Cable..... **$143.99**
TMV-CST-400 Coaxial Cable Prep Tool for LMR®-400 Cable..... **$177.99**
TMV-CST-600 Coaxial Cable Prep Tool for LMR®-600 Cable..... **$152.99**
TMV-RB-CST Replacement Blades for CST Series Prep Tools..... **$73.99**

Cable Hoisting Grips



We've all done it—tied rope directly to the coax to pull it up to an installation. Problem is, that method can crush, deform or break the cable. These grips will safely lift your cable up a tower, to your roof or through a ceiling.

TMV-HG-400T Cable Hoisting Grip, for LMR®-400/0.4" OD Jacket Cable... **$28.99**
TMV-HG-600T Cable Hoisting Grip, for LMR®-600/0.6" OD Jacket Cable... **$35.99**

TIMES MICROWAVE SYSTEMS An Amphenol Company

Cable Cutting Tool



Clean, square cuts on your cable are essential for a clean connector installation. The CCT-02 cutter will work with virtually any cable with a 3/8" to 1/2" OD and delivers that critical first step of cable prep. The CCT-03 model is made for LMR®-600 and smaller cables.

TMV-CCT-02 Cable Cutting Tool **$67.99**
TMV-CCT-03 Cable Cutting Tool, LMR®-600 and Smaller Coax **$64.99**

New!



Adjustable Cable Tie Guns

Performance Tool adjustable cable tie guns will speed up cable tie applications. They ensure correct tension and provide automatic flush cuts at the end of the cable tie, eliminating sharp edges on your ties. These tools are a sturdy, high-impact nylon and fiberglass body with adjustable bundling pressure.

WMR-W2919 Adjustable Cable Tie Guns **$20.99**

We stock many more items than we can show. See them all at DXEngineering.com!

⚠ **WARNING:** For Proposition 65 information, see p. 3



DX ENGINEERING

F-Connector Coax Cable Tool Kit

Housed in a sturdy case with precut foam, DX Engineering's UT-KITF tool kit includes stripping tool for RG-6U dual shield/quad shield and F-6 size cable, 25 Universal Compression F-connectors for any RG-6U or F-6 cables, F-connector compression tool, coaxial cable shears, F-connector tightening tool, and stripping tool replacement blades. The universal connectors fit any RG6 cable, eliminating the hassle of using color-coded F-connector types.

DXE-UT-KITF F-Connector Coax Cable Tool Kit.....**$195.99**



DX ENGINEERING

EX6XL Type-F Universal Compression Connectors

These heavy-duty, metal-body and black plastic connectors (direct replacements for all previous blue and purple F connectors) work on all RG6U coaxial cables, solving the problem of identifying cable type and figuring out which compression connector to use. The EX6XL's unique design fits any RG6 and RG6U coaxial cables, standard or self-healing (flooded). The moisture-tight connectors install onto RG6U 60% braid, dual shield, such as RG-6U and F-6, including legacy DXE-F6 and DXE-6UF, as well as all Quad Shield RG-6U, including DXE-RG6UFQ and DXE-RG6UQ. They are easily installed with common F-connector compression tools such as the RG6 Type-F Compression Connector Tool (DXE-SNS-CT1).

DXE-EX6XL-10 Type-F Universal Compression Connector, 10 Pack **$13.99**

DXE-EX6XL-25 Type-F Universal Compression Connector, 25 Pack **$27.99**

DXE-SNS-CT1 RG6 Type-F Compression Connector Tool.....**$53.99**

DXE-CPT-659 Coax Cable Stripper for RG-6 and RG-59 .....**$36.99**

DX ENGINEERING

E-Series Three-Level Coax Cable Stripper



Molded from high-impact plastic, this stripper is simple to use and delivers a professional, repeatable prep job every time. It features an adjustable blade that is easy to replace. No special cartridge necessary. It's designed for stripping RG-8, RG-11, RG-213, and similar size cables in the 0.405" diameter range.

DXE-15030C Stripper/RG-8, RG-11, RG-213 ...**$13.99**



Coax Cable Cutters

These high-quality cable cutters have blades designed to cut coaxial cable cleanly. They will not crush the cable like diagonal side cutters—the cut end of the cable is cleanly cut, ready for stripping and connector assembly. The cutters can handle aluminum up to 4/0-gauge and soft copper cable up to 2/0-gauge.

CNL-911 Coax Cable Cutters.....**$34.95**

DX ENGINEERING



Precision Shear Side Cutters

These DX Engineering Precision Shear Side Cutters are the perfect tool for trimming loose strands of copper braid, trimming individual strands of the center conductor.

- Low-profile, general purpose cutter
- Superior blade bypass shear cutting action
- Better cuts with half the effort
- Reduced mechanical shock delivered to the work
- Flush cuts soft wire up to 20 AWG (0.8mm)

DXE-170M Precision Shear Side Cutters.....**$12.59**

eclipse™



Pen-Style Screwdrivers

Easily handle precision work with Eclipse's affordable and effective 4-in-1 (800-092) and 9-in-1 (SD-9814) pen-style screwdrivers. The 4-in-1 model features two double-ended reversible ends for selection of #00/#0 Phillips and 1/16"/1/8" slotted tips. The 9-in-1 set comes with magnetic bits for #000/#00/#0/#1 Phillips, 2.0/3.0 slotted, and T4/T5/T6 star (perfect for mobile phone and other electronic applications). Bits can be conveniently stored in the knurled, aluminum alloy handle, which provides a secure grip. Also includes a pocket clip for easy transport.

ETL-800-092 4-in-1 Phillips/Slotted Pen-Style Screwdriver **$2.99**

ETL-SD-9814 9-in-1 Phillips/Slotted/ Star Pen-Style Screwdriver ...**$6.99**

DX ENGINEERING



Crimp-Type Insulated Wire Ferrules

These provide a secure, professional termination for stranded wire. Each ferrule ensures a durable crimp and a stable contact surface for reliable set-screw connections, allowing wires to be reused without damage and helping maintain a clean, organized wiring layout.

DXE-IWF-12-25PK 12 AWG, Gray, Pack of 25 .....**$9.99**

DXE-IWF-14-25PK 14 AWG, Blue, Pack of 25 .....**$9.99**

DXE-IWF-16-25PK 16 AWG, Red, Pack of 25.....**$9.99**

DXE-IWF-18-25PK 18 AWG, White, Pack of 25.....**$9.99**

DXE-IWF-20-25PK 20 AWG, Orange, Pack of 25 ...**$9.99**

DXE-IWF-22-25PK 22 AWG, Turquoise, Pack of 25 .....**$9.99**

COMET™



Adapter Cables

Get your gear up and running quickly. These RG-188 adapter cables let you connect various types of equipment and antennas without significant insertion loss. Find more adapters at DXEngineering.com.

Part Number	Connector 1	Connector 2	Length	Price
CMA-HB-05	SMA Male	BNC Female	18"	**$17.49**
CMA-HM-05	BNC Male	SO-239	18"	**$16.95**
CMA-HM-05JSJ	SMA Female	SO-239	18"	**$17.49**
CMA-HS-05	SMA Male	SO-239	18"	**$16.95**
CMA-HS-10	SMA Male	SO-239	39"	**$19.95**

Amphenol® RF



RF SMA Coaxial Cable Assemblies

Amphenol RF SMA Coaxial Cable Assemblies make it easy to connect devices that have SMA female connectors. These high-quality 50 Ω, 36" SMA male, RG-316/U jumper cables may also be used with various SMA adapters for other RF device interconnections. Order a couple and have a spare on hand!

AML-135101-03 RF SMA RG-316, 50 Ω Jumper Cable.....**$34.99**

DIAMOND ANTENNA



Coaxial Jumper Cable Assembly

Get connected quickly with Diamond Antenna adapter cables. They come pre-terminated and are made from quality materials for maximum durability.

DMN-2D1SR Coax Jumper, SMA Male to SO-239, 39" **$21.95**



USB Adapter Cable

ELECRAFT

DX Engineering now carries this special replacement USB interface cable (USB A to 3.5mm) for Elecraft's famous KX3 160-6M Transceiver, its XG3 Programmable Signal Source, and other equipment.

ECT-KXUSB-A USB to 3.5mm TRS Adapter Cable.....**$39.95**

DX ENGINEERING



F Connector Tightening Tool

This tool installs and removes F Connectors in high density and hard to reach locations. It helps ensure proper connections to reduce the possibility of loose connector related problems. It is the only tool that works with bent coax. Only finger force is required.

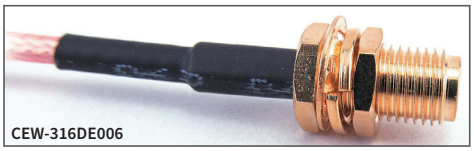
DXE-CIT-1 F Connector Tightening Tool....**$19.99**

DXEngineering.com is loaded with detailed photos, specs, videos, and more!

⚠ **WARNING:** For Proposition 65 information, see p. 3







New!

RG-174 and RG-316 Coaxial Cable Assemblies

Consolidated ELECTRONIC WIRE & CABLE

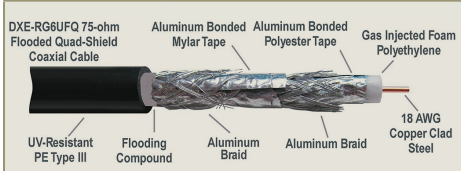
These precision-crafted, lightweight, flexible, and low-loss cable assemblies are engineered for special RF device interconnections up to 6 GHz. They feature PTFE dielectric insulating material, outstanding UV and chemical resistance, a wide operational temperature range, and quality BNC or SMA connectors. Both RG-316 and RG-174 cables feature braided, silver-plated copper shields. RG-316 has 24 AWG center conductor gauge wire and an FEP (Fluorinated Ethylene Propylene) jacket; RG-174 cables feature PVC (Polyvinyl Chlorine) jackets and 26 AWG center conductor gauge wire.

Consolidated Wire RG-316 Coaxial Cable Assemblies, BNC Male			
CEW-316DB005	5 Feet	each	**$13.99**
CEW-316DB010	10 Feet	each	**$19.99**
CEW-316DB015	15 Feet	each	**$21.99**
CEW-316DB020	20 Feet	each	**$29.99**
SMA Female			
CEW-316DE001-2	1 Feet	pair	**$14.99**
CEW-316DE002-2	2 Feet	pair	**$16.99**
CEW-316DE003-2	3 Feet	pair	**$17.99**
CEW-316DE006	6 Feet	each	**$11.99**
SMA Male to SMA Female			
CEW-316DES001-2	1 Foot	pair	**$13.99**
CEW-316DES002-2	2 Feet	pair	**$15.99**
CEW-316DES003-2	3 Feet	pair	**$18.99**
CEW-316DES006	6 Feet	each	**$11.99**
SMA Male			
CEW-316DS001-2	1 Foot	pair	**$16.99**
CEW-316DS002-2	2 Feet	pair	**$17.99**
CEW-316DS003-2	3 Feet	pair	**$19.99**
CEW-316DS006	6 Feet	each	**$17.99**
SMA Male to BNC Male			
CEW-316DBS1-5	1.5 Feet	each	**$18.99**
CEW-316DBS003	3 Feet	each	**$22.99**
CEW-316DBS006	6 Feet	each	**$27.99**
Consolidated Wire RG-174 Coaxial Cable Assemblies, BNC Male			
CEW-174DB005-2	5 Feet	pair	**$12.99**
CEW-174DB010-2	10 Feet	pair	**$15.99**
CEW-174DB015-2	15 Feet	pair	**$17.99**
CEW-174DB020	20 Feet	each	**$9.99**

Can't find what you're looking for?
If you don't see a coax assembly that fits your application, DX Engineering can help. We can custom manufacture an assembly to your exact specifications.
Custom Manufacturing Request.

DX ENGINEERING

DXE-RG6UFQ Flooded Cable 75 Ohm



Gas-Injected Foam Won't Absorb Water

- Low-loss, gas-injected foam polyethylene 0.18" OD dielectric
- 18 AWG copper-clad solid steel center conductor
- Quad Shield: bonded polyester tape foil covered by a braided aluminum shield and a second aluminum Mylar tape shield covered by a braided aluminum shield. All encased in flooding compound
- Waterproof, 100% shield coverage
- 0.3" UV-resistant Type III PE jacket
- Ideal for outdoor use
- Direct bury

Attenuation

Losses at 1.8 MHz are virtually insignificant over several hundreds of feet of this coaxial cable. It can be used for low band receive antennas and arrays without the complications of using a preamp at the antenna.

0.6 dB @ 5 MHz / 100 ft.	
1.1 dB @ 30 MHz / 100 ft.	
1.6 dB @ 55 MHz / 100 ft.	
Velocity Factor: 82% (0.82)	
Minimum Bend Radius:	6" Repeated Bends
	2.5" Fixed Install

DXE-RG6UFQ..... per foot **$0.37**
DXE-RG6UFQ-1000 ..... 1,000' Spool **$255.99**

DXE-11U 75 Ohm Low-Loss Cable



Gas-Injected Foam Won't Absorb Water

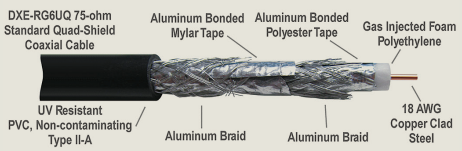
- Low-loss, gas-injected PE foam dielectric
- .405" low-density polyethylene jacket Black UV-resistant, ideal for outdoor use
- Waterproof PE jacket
- Direct bury

Attenuation/ 100 Ft.	Power Rating
0.2 dB @ 1 MHz	5.0 kW
0.3 dB @ 5 MHz	3.6 kW
0.4 dB @ 10 MHz	2.5 kW
0.7 dB @ 30 MHz	1.5 kW
1.0 dB @ 50 MHz	1.0 kW
1.8 dB @ 150 MHz	250 W
3.3 dB @ 450 MHz	100 W
Velocity Factor: 82% (0.82)	
Minimum Bend Radius: 4"	

DXE-11U..... per foot **$1.49**

DX ENGINEERING

DXE-RG6UQ Cable 75 Ohm



Gas-Injected Foam Won't Absorb Water

- Low-loss, gas-injected foam polyethylene 0.18" OD dielectric
- 18 AWG copper-clad solid steel center conductor
- Quad Shield: Bonded aluminum tape foil covered by a braided aluminum shield and a second aluminum bonded Mylar shield covered by a braided aluminum shield
- 100% shield coverage
- Waterproof
- 0.3" UV-resistant non-contaminating Type II-A PVC jacket
- Ideal for outdoor use
- Direct bury

Attenuation

Losses at 1.8 MHz are virtually insignificant over several hundreds of feet of this coaxial cable. It can be used for low band receive antennas and arrays without the complications of using a preamp at the antenna

0.6 dB @ 5 MHz / 100 ft.	
1.1 dB @ 30 MHz / 100 ft.	
1.6 dB @ 55 MHz / 100 ft.	
Velocity Factor: 82% (0.82)	
Minimum Bend Radius:	6" Repeated Bends
	2.5" Fixed Install

DXE-RG6UQ..... per foot **$0.39**
DXE-RG6UQ-1000 ..... 1,000' Spool **$219.99**

DX ENGINEERING

RG-6/U 75 Ω Quad-Shield Coaxial Cable



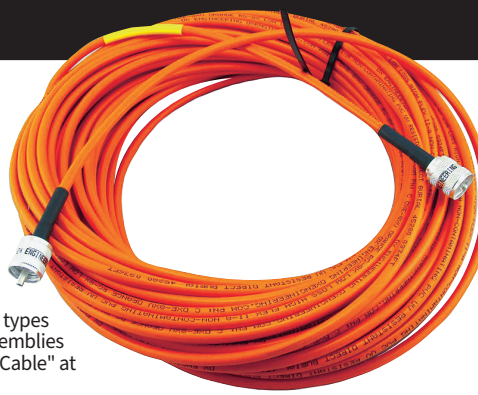
These assemblies are constructed from premium DX Engineering RG-6/U 75 Ω cable and superior-quality weather-sealed nickel-plated compression F connectors. Their best-in-class design reduces loss and provides greater protection against electromagnetic interference. This tough and flexible cable is made with low-loss gas-injected foam polyethylene dielectric and 18 AWG copper-clad steel center conductor. These pre-assembled cables are ideal for amateur radio and SWL receive antenna arrays, magnetic loops, Beverage antennas, over-the-air TV, AM and FM broadcast reception, CATV systems. and audio/ video distribution systems. They're available by the foot, in 1,000' spools, or in specific lengths (below).

DX Engineering RG/U 75 Ω Quad-Shield Coaxial Cable Assemblies, Type-F Male		
DXE-RG6UQF003	3 Feet	**$28.99**
DXE-RG6UQF006	6 Feet	**$30.99**
DXE-RG6UQF012	12 Feet	**$33.99**
DXE-RG6UQF025	25 Feet	**$41.99**
DXE-RG6UQF050	50 Feet	**$49.99**
DXE-RG6UQF100	100 Feet	**$64.99**
DXE-RG6UQF125	125 Feet	**$76.99**
DXE-RG6UQF150	150 Feet	**$76.99**
DXE-RG6UQF200	200 Feet	**$86.99**

To take advantage of our Beat-a-Price Guarantee, please Contact Us!

⚠ **WARNING:** For Proposition 65 information, see p. 3

High Performance Coaxial Cable and Cable Assemblies

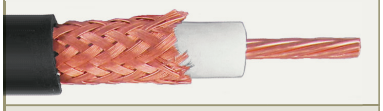


DX Engineering Coaxial Cables are made to our strict specifications to ensure that your bulk cable or cable assembly purchase will perform beyond expectations, offering the greatest and longest lasting value for your radio installation. All DX Engineering cables have excellent weather-resistant jackets and our coaxial cables feature stranded copper center conductors for the best connections and long-term flexibility.

DX Engineering Coaxial Cable Assemblies come with either BNC Male, Type-N Male, or DX Engineering PL-259 connectors. DXE's revolutionary Next Generation PL-259 connectors combine the best qualities of solder and crimp technologies for unparalleled reliability and the lowest loss. These 50 Ω coaxial cable assemblies feature hand-soldered center pins and machine crimped shields, and are finished with weather-sealed shrink tube so they are highly resistant to moisture and wear. All DX Engineering cable assemblies are Hi-Pot tested to ensure reliable performance when you install them at your shack.

We offer an extensive line of coaxial cables sold in specific lengths, by the foot, and by the roll. Cable preparation tools and different types of coaxial connectors are available here. See our Custom Cable Builder system at DXEngineering.com for ordering custom cable assemblies with your choice of cable type, length, and connector combinations that will satisfy nearly every RF application. Enter "DXE Coaxial Cable" at DXEngineering.com to see our comprehensive bulk cable and coaxial cable assembly offerings.

DXE-8U Low-Loss 50 Ohm Foam Dielectric Cable



Gas-Injected Foam Won't Absorb Water

- Low-loss, gas-injected foam polyethylene dielectric
- .405" high-flex PVC jacket
- Low-loss foam dielectric
- Braided copper shield

Attenuation/ 100 Ft.	Power Rating	%
0.3 dB @ 5 MHz	5.4 kW	93%
0.6 dB @ 10 MHz	3.4 kW	87%
1.0 dB @ 30 MHz	2.0 kW	79%
1.3 dB @ 50 MHz	1.5 kW	73%
2.2 dB @ 150 MHz	1.0 kW	60%

Velocity Factor: 81% (0.81)

Minimum Bend Radius: 6" Repeated Bends, 2.5" Fixed Install

DXE-8U Low-Loss Foam Dielectric PL-259

DXE-8U	per foot	**$1.39**
DXE-8UDX002	2 Feet	**$38.99**
DXE-8UDX003	3 Feet	**$39.99**
DXE-8UDX006	6 Feet	**$43.99**
DXE-8UDX012	12 Feet	**$51.99**
DXE-8UDX018	18 Feet	**$58.99**
DXE-8UDX025	25 Feet	**$66.99**
DXE-8UDX050	50 Feet	**$99.99**
DXE-8UDX075	75 Feet	**$132.99**
DXE-8UDX100	100 Feet	**$165.99**
DXE-8UDX125	125 Feet	**$196.99**
DXE-8UDX150	150 Feet	**$229.99**
DXE-8UDX175	175 Feet	**$256.99**
DXE-8UDX200	200 Feet	**$289.99**
DXE-8U-500	500 Feet	**$599.99**
DXE-8U-1000	1,000 Feet	**$1,149.99**



DXE-213UNX012

DXE-213U MIL-Spec 50 Ohm Cable



- Solid polyethylene dielectric
- Okay for repeated bending
- Recommended for rotator loops
- .405" Type II jacket is non-contaminating and UV-resistant, suitable for outdoor use
- Direct bury
- Braided copper shield

Attenuation/ 100 Ft.	Power Rating	%
0.4 dB @ 5 MHz	4.9 kW	90%
0.6 dB @ 10 MHz	3.4 kW	87%
1.0 dB @ 30 MHz	2.0 kW	79%
1.3 dB @ 50 MHz	1.5 kW	73%
2.4 dB @ 150 MHz	0.9 kW	57%

Velocity Factor: 66% (0.66)

Minimum Bend Radius: 5" Recommended for Rotator Loops

DXE-213U	per foot	**$1.60**
DXE-213UDX003	3 Feet	**$39.99**
DXE-213UDX006	6 Feet	**$43.99**
DXE-213UDX012	12 Feet	**$55.99**
DXE-213UDX018	18 Feet	**$63.99**
DXE-213UDX025	25 Feet	**$72.99**
DXE-213UDX050	50 Feet	**$105.99**
DXE-213UDX075	75 Feet	**$149.99**
DXE-213UDX100	100 Feet	**$184.99**
DXE-213UDX125	125 Feet	**$222.99**
DXE-213UDX150	150 Feet	**$259.99**
DXE-213UDX175	175 Feet	**$299.99**
DXE-213UDX200	200 Feet	**$339.99**
DXE-213U-500	500 Feet	**$699.99**
DXE-213U-1000	1,000 Feet	**$1,299.99**

Type-N Male

DXE-213UNX012	12 Feet	**$65.99**
DXE-213UNX018	18 Feet	**$72.99**
DXE-213UNX025	25 Feet	**$80.99**
DXE-213UNX035	35 Feet	**$92.99**
DXE-213UNX050	50 Feet	**$109.99**

DXE-8X Low-Loss 50 Ohm Foam Dielectric Cable (also known as RG-8X or Mini-8)



Gas-Injected Foam Won't Absorb Water

- Low-loss, gas-injected foam polyethylene dielectric
- Very flexible; ideal for short, in-shack jumper cables
- .242" Type II jacket is non-contaminating and UV-resistant
- Direct bury

Attenuation/ 100 Ft.	Power Rating	%
0.6 dB @ 5 MHz	3.0 kW	86%
0.9 dB @ 10 MHz	2.2 kW	81%
1.4 dB @ 30 MHz	1.2 kW	69%
2.0 dB @ 50 MHz	0.9 kW	62%
3.8 dB @ 150 MHz	0.4 kW	42%

Velocity Factor: 78% (0.78)

Minimum Bend Radius: 2.4"

DXE-8X	per foot	**$0.65**
DXE-8XDX001	1 Foot	**$33.99**
DXE-8XDX1-5	1.5 Feet	**$36.99**
DXE-8XDX002	2 Feet	**$38.49**
DXE-8XDX003	3 Feet	**$38.99**
DXE-8XDX006	6 Feet	**$40.99**
DXE-8XDX012	12 Feet	**$43.99**
DXE-8XDX015	15 Feet	**$45.99**
DXE-8XDX018	18 Feet	**$49.99**
DXE-8XDX025	25 Feet	**$52.99**
DXE-8XDX035	35 Feet	**$59.99**
DXE-8XDX050	50 Feet	**$65.99**
DXE-8XDX075	75 Feet	**$78.99**
DXE-8XDX100	100 Feet	**$91.99**
DXE-8XDX150	150 Feet	**$125.99**

BNC Male and PL-259

DXE-8XDXB003	3 Feet	**$38.99**
DXE-8XDXB015	15 Feet	**$43.99**
DXE-8XDXB025	25 Feet	**$59.99**
DXE-8XDXB035	35 Feet	**$64.99**
DXE-8XDXB050	50 Feet	**$79.99**
DXE-8XDXB075	75 Feet	**$89.99**
DXE-8XDXB100	100 Feet	**$119.99**

DXE-8X Hi-Visibility Orange PL-259 (also known as RG-8X or Mini-8)



Gas-Injected Foam Won't Absorb Water

- Low-loss, gas-injected foam polyethylene dielectric
- Very flexible; ideal for short, in-shack jumper cables
- .242" Type II jacket is non-contaminating and UV-resistant
- Direct bury

Attenuation/ 100 Ft.	Power Rating	%
0.6 dB @ 5 MHz	3.0 kW	86%
0.9 dB @ 10 MHz	2.2 kW	81%
1.4 dB @ 30 MHz	1.2 kW	69%
2.0 dB @ 50 MHz	0.9 kW	62%
3.8 dB @ 150 MHz	0.4 kW	42%

Velocity Factor: 78% (0.78)

Minimum Bend Radius: 2.4"

DXE-8XV	per foot	**$0.69**
DXE-8XVDX1-5	1.5 Feet	**$36.99**
DXE-8XVDX003	3 Feet	**$38.99**
DXE-8XVDX006	6 Feet	**$40.99**
DXE-8XVDX012	12 Feet	**$43.99**
DXE-8XVDX018	18 Feet	**$49.99**
DXE-8XVDX025	25 Feet	**$59.95**
DXE-8XVDX035	35 Feet	**$66.99**
DXE-8XVDX050	50 Feet	**$79.99**
DXE-8XVDX075	75 feet	**$99.99**
DXE-8XVDX100	100 Feet	**$119.99**
DXE-8XV-1000	1,000 Feet	**$685.99**

DXE-8X Hi-Visibility Orange BNC Male and PL-259

DXE-8XVDXB003	3 Feet	**$39.99**
DXE-8XVDXB015	15 Feet	**$45.99**
DXE-8XVDXB025	25 Feet	**$64.99**
DXE-8XVDXB035	35 Feet	**$69.99**
DXE-8XVDXB050	50 Feet	**$84.99**
DXE-8XVDXB075	75 Feet	**$99.99**
DXE-8XVDXB100	100 Feet	**$124.99**

Check out our YouTube channel for in-depth tech tips and product demos!

⚠ WARNING: For Proposition 65 information, see p. 3





DXE-400MAX
Low-Loss Cable 50 Ohm



Gas-Injected Foam Won't Absorb Water

- Low-loss, gas-injected foam polyethylene dielectric bonded tape foil covered by a braided copper shield
- .405" low-density polyethylene jacket
- Waterproof
- UV-resistant, ideal for outdoor use
- Direct bury

Attenuation/ 100 Ft.	Power Rating	%
0.3 dB @ 5 MHz	6.9 kW	93%
0.5 dB @ 10 MHz	4.8 kW	90%
0.8 dB @ 30 MHz	2.8 kW	83%
1.1 dB @ 50 MHz	2.1 kW	79%
1.8 dB @ 150 MHz	1.2 kW	65%
3.3 dB @ 450 MHz	0.7 kW	47%
Velocity Factor: 84% (0.84)		
Minimum Bend Radius:	6" Repeated Bends 2.5" Fixed Install	

DXE-400MAX	per foot	**$1.54**
DXE-400MAXDX003	3 Feet	**$40.99**
DXE-400MAXDX006	6 Feet	**$44.99**
DXE-400MAXDX012	12 Feet	**$52.99**
DXE-400MAXDX018	18 Feet	**$60.99**
DXE-400MAXDX025	25 Feet	**$70.99**
DXE-400MAXDX050	50 Feet	**$109.99**
DXE-400MAXDX075	75 Feet	**$144.99**
DXE-400MAXDX100	100 Feet	**$179.99**
DXE-400MAXDX125	125 Feet	**$225.99**
DXE-400MAXDX150	150 Feet	**$257.99**
DXE-400MAXDX175	175 Feet	**$296.99**
DXE-400MAXDX200	200 Feet	**$334.99**
DXE-400MAX-500	500 Feet	**$744.99**
DXE-400MAX-1000	1,000 Feet	**$1,539.99**
DXE-400MAX Type-N Male		
DXE-400MAXDN003	3 Feet	**$41.99**
DXE-400MAXDN006	6 Feet	**$45.99**
DXE-400MAXDN012	12 Feet	**$53.99**
DXE-400MAXDN025	25 Feet	**$71.99**
DXE-400MAXDN050	50 Feet	**$110.99**
DXE-400MAXDN075	75 Feet	**$148.99**
PL-259 and Type-N Male		
DXE-400MAXNX003	3 Feet	**$55.99**
DXE-400MAXNX006	6 Feet	**$59.99**
DXE-400MAXNX050	50 Feet	**$125.99**

DXE-RG400-CTL 50 Ohm
High Isolation - High Power

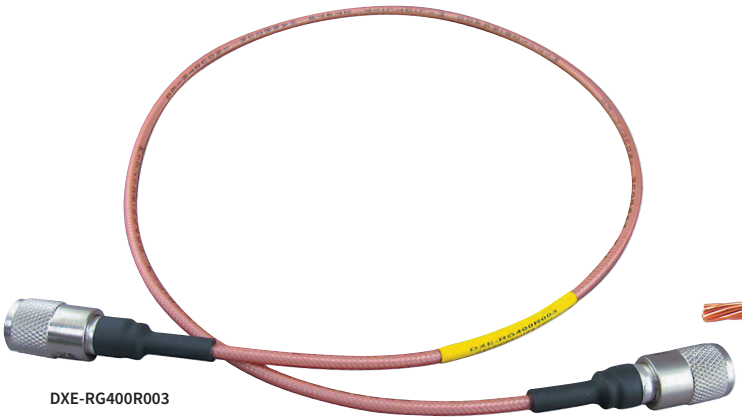


High isolation - High power

- Solid polytetrafluoroethylene (PTFE) dielectric
- Silver-plated copper braid - 2 layers
- 95-97% shield coverage
- 20 AWG silver-clad copper center conductor
- .195" FEP jacket UV-resistant

Attenuation/ 100 Ft.	Power Rating
0.4 dB @ 1 MHz	5.0 kW
0.9 dB @ 5 MHz	5.0 kW
2.2 dB @ 30 MHz	2.75 kW
2.9 dB @ 50 MHz	2.1 kW
5.1 dB @ 150 MHz	1.2 kW
9.1 dB @ 450 MHz	670 W
Velocity Factor: 69.5% (0.695)	
Minimum Bend Radius: 1"	

DXE-RG400-CTL 50 Ohm		
DXE- RG400-CTL	per foot	**$5.99**
DXE-RG-400 PL-259		
DXE-RG400R003	3 Feet	**$89.99**
DXE-RG400R006	6 Feet	**$105.99**
DXE-RG400R010	10 Feet	**$127.99**
BNC Male		
DXE-RG400B003	3 Feet	**$86.99**
DXE-RG400B006	6 Feet	**$103.99**
DXE-RG400B010	10 Feet	**$125.99**
PL-259 to Type-N Male		
DXE-RG400RN003	3 Feet	**$103.50**
DXE-RG400RN006	6 Feet	**$111.70**



DXE-RG400R003

DXE-214
50 Ohm Cable



Silver Plated Braids and Center Conductor

- Superior Shielding Dual Silver Plated Copper Braids - 96% and 97% coverage
- .425 Type II-A jacket is non-contaminating and UV-resistant, suitable for outdoor use and direct-bury
- Solid Polyethylene Dielectric
- Ideal for Rotator Loops
- For use with solder type connectors

Attenuation/ 100 Ft.	Power Rating
0.4 dB @ 5 MHz	4.9 kW
0.6 dB @ 10 MHz	3.4 kW
1.0 dB @ 30 MHz	2.0 kW
1.3 dB @ 50 MHz	1.5 kW
1.9 dB @ 100 MHz	0.9 kW
Velocity Factor: 66% (0.66)	
Minimum Bend Radius: 5"	

DXE-214 50 Ohm Cable		
DXE-214	per foot	**$9.49**
DXE-214-1000	1,000	**$8,899.99**
DXE-RG-214 Double-Shielded Type-N Male		
DXE-214N003	3 Feet	**$84.99**
DXE-214N006	6 Feet	**$109.99**
DXE-214N012	12 Feet	**$149.99**
DXE-214N018	18 Feet	**$199.99**
DXE-214N025	25 Feet	**$249.99**
PL-259		
DXE-214R003	3 Feet	**$79.99**
DXE-214R006	6 Feet	**$99.99**
DXE-214R012	12 Feet	**$139.99**
DXE-214R018	18 Feet	**$189.99**
DXE-214R025	25 Feet	**$225.99**

DXE-58AU
52 Ohm Cable



- 19 strands - 20 AWG center conductor
- Polyethylene dielectric
- Tinned braided copper shield
- 95-97% shield coverage
- .195" PVC Type I jacket

Attenuation/ 100 Ft.	Power Rating
0.5 dB @ 1 MHz	1,000 W
1.5 dB @ 5 MHz	600 W
2.8 dB @ 30 MHz	350 W
3.0 dB @ 50 MHz	250 W
4.0 dB @ 150 MHz	150 W
Velocity Factor: 66% (0.66)	
Minimum Bend Radius: 3"	

DXE-RG-58A/U Low-Loss BNC Male		
DXE-58AUDB025	25 Feet	**$34.99**
DXE-58AUDB050	50 Feet	**$44.99**
PL-259		
DXE-58AUDU025	25 Feet	**$45.99**
DXE-58AUDU050	50 Feet	**$55.99**
DXE-RG-58A/U 52 Ohm		
DXE-58AU	per foot	**$0.55**

DXE-RG-174 50 Ohm Hi-Visibility Orange BNC Male



DXE-174VDB1-5	1.5 Feet	**$16.75**
DXE-174VDB003	3 Feet	**$16.95**
DXE-174VDB006	6 Feet	**$17.85**
DXE-174VDB025	25 Feet	**$21.55**
DXE-174VDB035	35 Feet	**$28.65**
DXE-174VDB050	50 Feet	**$37.05**
DXE-174V Hi-Visibility Orange Cable		
DXE-174V	per foot	**$0.89**



DXE-213U-1000

Need a custom cable assembly? Check out the Online Custom Cable Builder.

⚠ **WARNING:** For Proposition 65 information, see p. 3

DX ENGINEERING

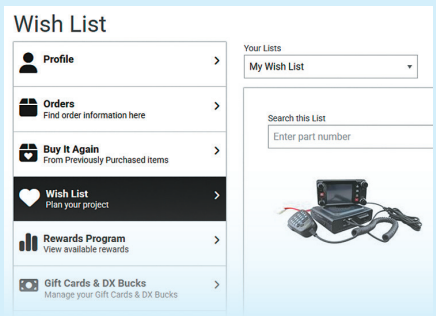
TIMES MICROWAVE SYSTEMS An Amphenol Company



LMR®240UF and LMR®400UF UltraFlex Coaxial Cable Assemblies

These low-loss cables offer high-power handling and the same bending capabilities of smaller diameter coax assemblies. UltraFlex assemblies are perfect for interconnecting high- and low-power HF and VHF equipment. Times Microwave LMR® 240UF and 400UF UltraFlex cable have a stranded bare copper center, foam polyethylene dielectric, and a pliable rubber jacket (black thermoplastic elastomer) designed for bending. Both ends are terminated with silver-plated brass DX Engineering PL-259 connectors.

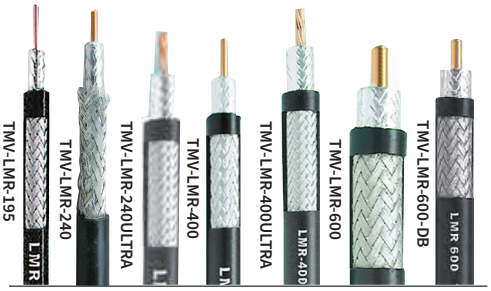
DX Engineering LMR®240UF Ultra-Flex Coaxial Cable Assemblies, PL-259		
DXE-L240UFDX003	3 Feet	**$42.99**
DXE-L240UFDX006	6 Feet	**$47.99**
DXE-L240UFDX015	15 Feet	**$61.99**
DXE-L240UFDX025	25 Feet	**$77.99**
DXE-L240UFDX050	50 Feet	**$116.99**
DXE-L240UFDX075	75 Feet	**$155.99**
DXE-L240UFDX100	100 Feet	**$196.99**
DX Engineering LMR®400UF Ultra-Flex Coaxial Cable Assemblies, PL-259		
DXE-L400UFDX003	3 Feet	**$52.99**
DXE-L400UFDX006	6 Feet	**$58.99**
DXE-L400UFDX009	9 Feet	**$68.99**
DXE-L400UFDX025	25 Feet	**$105.99**
DXE-L400UFDX050	50 Feet	**$132.99**
DXE-L400UFDX075	75 Feet	**$177.99**
DXE-L400UFDX100	100 Feet	**$223.99**



Dream Big at DX Engineering! Visit Our Website to Build Your Wish Lists

DX Engineering makes it simple to compile wish lists of the items you want for your station and then save them for future reference. Visit our website and click "Wish List" from the right side of the menu bar. Enter your account information and click "Create New List." Then make a list of the products you want from DX Engineering. You can make as many lists as you want—maybe one for portable gear, another for your home station, a third for reference books and must-have accessories, or a list of Field Day essentials. It's up to you. This feature is private, personalized, and a great way to keep your amateur radio needs organized and thoughts of building your dream station fresh in your mind. Here are other useful features from DXEngineering.com:

- Click on "What's New" for the latest products available at DX Engineering
- Click on "Hot Deals" for clearance items, open-box specials, scratch-and-dent offers, instant rebates, and sale items



TIMES MICROWAVE SYSTEMS An Amphenol Company

Times Microwave Systems® Bulk Cable

Times Microwave Systems® LMR®-195 Bulk Coaxial Cable
TMV-LMR-195 ..... per foot **$0.84**

Times Microwave Systems® LMR®-240 Bulk Coaxial Cable
TMV-LMR-240 ..... per foot **$1.18**

Times Microwave Systems® LMR®-240 Ultra Flex Bulk Coaxial Cable
TMV-LMR-240ULTRA ..... per foot **$1.49**

Times Microwave Systems® LMR®-400 Bulk Coaxial Cable
TMV-LMR-400 ..... per foot **$1.70**
TMV-LMR-400-500 ..... 500' Spool **$849.99**

Times Microwave Systems® LMR®-400 Ultra Flex Bulk Coaxial Cable
TMV-LMR-400ULTRA ..... per foot **$2.69**

Times Microwave Systems® LMR®-400DB Direct Bury Bulk Coaxial Cable
TMV-LMR-400DB ..... per foot **$1.73**

Times Microwave Systems® LMR®-600 Bulk Coaxial Cable
TMV-LMR-600 ..... per foot **$2.92**

Times Microwave Systems® LMR®-600 Ultra Flex Bulk Coaxial Cable
TMV-LMR-600ULTRA ..... per foot **$4.83**

Times Microwave Systems® LMR®-600DB Direct Bury Bulk Coaxial Cable
TMV-LMR-600DB ..... per foot **$3.50**

DX ENGINEERING



DX Engineering Premium Radial Wire

14 AWG stranded copper,
UV-resistant relaxed black PVC insulation.

DXE-RADW-500 ..... 500' Spool **$110.99**
DXE-RADW-1000 ..... 1,000' Spool **$207.99**

DX ENGINEERING New!



DX Engineering Heavy-Duty Direct-Bury Rotator Cable

DXE-CW1812UN ..... per foot **$1.84**

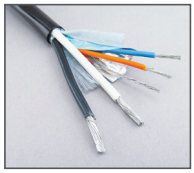
DX ENGINEERING New!



DX Engineering Super Heavy Duty 8 Conductor Control Cable

DXE-CW8-SHD ..... per foot **$2.10**

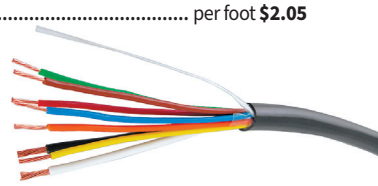
DX ENGINEERING



DX Engineering Heavy Duty Rotator Control Cable

DXE-CW1812OR ..... per foot **$2.05**

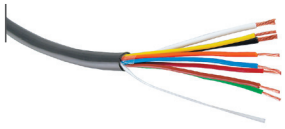
DX ENGINEERING



DX Engineering 8 Conductor Heavy Duty Control Cable

DXE-CW8-HD ..... per foot **$2.59**
DXE-CW8-HD-1000 ..... 1,000' Spool **$1,449.95**

DX ENGINEERING



DX Engineering 8 Conductor Control Cable

DXE-CW8 ..... per foot **$1.79**
DXE-CW8-1000 ..... 1,000' Spool **$776.99**

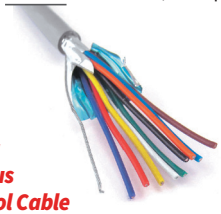
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DX Engineering 8 Conductor Plus Shield CAT5e Control Cable

DXE-CW9 ..... per foot **$0.78**
DXE-CW9-1K ..... 1,000' Spool **$317.99**

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DX Engineering 9 Conductor Plus Shielded Control Cable

DXE-CW9S ..... per foot **$1.59**

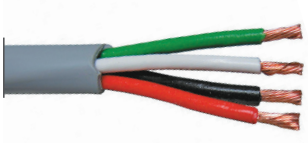
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COMTEK 3 Conductor Control Cable

COM-CW3 ..... per foot **$0.49**
COM-CW3-1000 ..... 1,000' Spool **$279.99**

COMTEK — SYSTEMS —



COMTEK 4 Conductor Control Cable

COM-CW4 ..... per foot **$0.85**
COM-CW4-1000 ..... 1,000' Spool **$237.99**

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6 Conductor + Drain Wire Control Cable

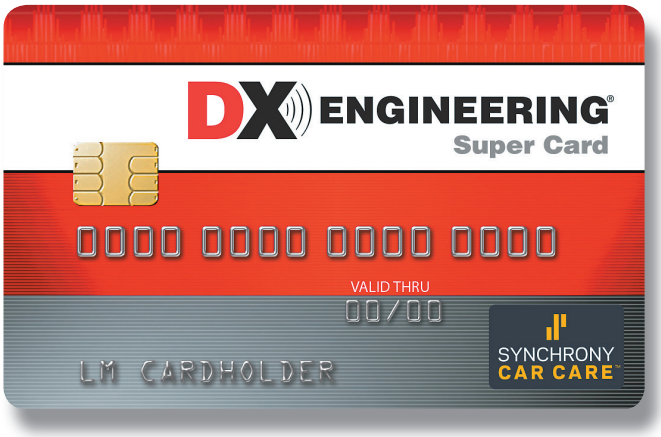
CEW-5726-CL ..... per foot **$0.84**
CEW-5726-CL-1K ..... 1,000' Spool **$799.99**

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⚠ WARNING: For Proposition 65 information, see p. 3

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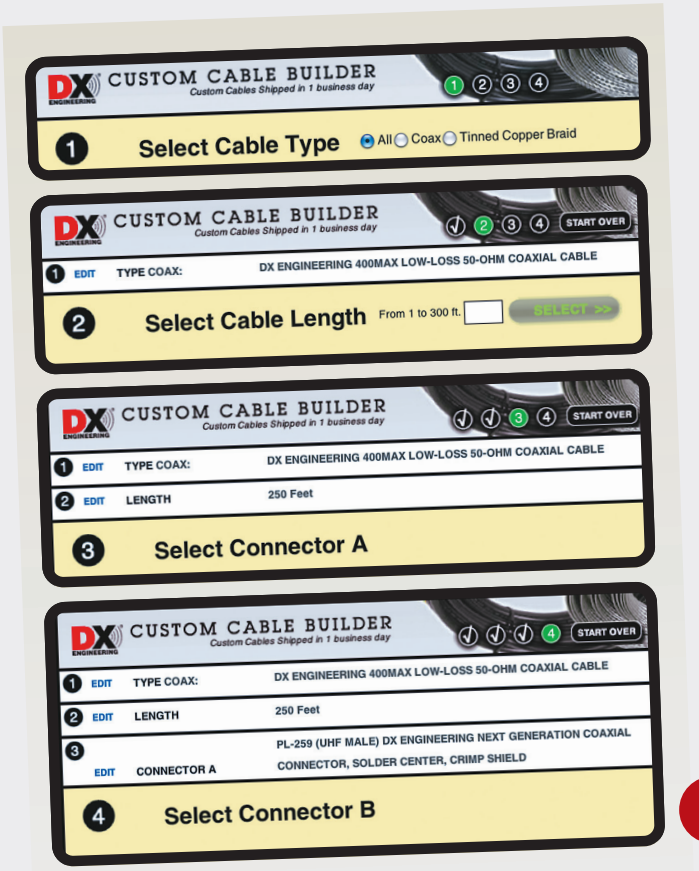
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3) Choose the connectors you want on each end.
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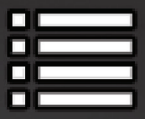


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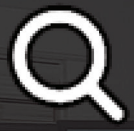
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