# STL Systems For Every Broadcaster



## Broadcast-Grade Audio Even Over Public Internet

The APT WorldCast Horizon NextGen IP audio codec boasts patented SureStream technology to deliver the audio quality and reliability you expect from a T1/E1 link using inexpensive public Internet connections such as ADSL, wireless 3G and 4G, LAN, WAN and Wi-Fi. It also offers a wide range of algorithms as standard on a solid DSP platform with dual IP ports and redundant power supplies. Perfect for STLs and mission-critical applications, it provides extensive control and monitoring capabilities to manage both your audio, data and network conditions and other equipment located at the transmitter site.

- SureStream technology for broadcast-grade audio over inexpensive IP links
- Enhanced apt-X algorithm, Linear PCM and several MPEG variants
- Embedded auxiliary data for transmission of RBDS / RDS or PAD
- Dual IP ports for dual streaming applications or separate control/streaming
- DHCP for automatic configuration of IP connection settings
- Non-destructive, cascade-resilient coding with Enhanced apt-X
- Up to 4 opto-coupled inputs and up to 4 relay outputs
- Fast boot time for mission-critical environments
- Intuitive web-based user interface

**HORIZON-NEXTGEN**    List $2,250.00    **Contact BSW For Lowest Prices**



*WorldNet Oslo from APT*

## STL System over IP

Now available in either a 1RU or 3RU chassis, APT's Oslo IP-STL System delivers anywhere from 4 mono / 2 stereo to  28 mono / 14 stereo channels of linear PCM or apt-X encoded audio over IP links.  Both analog and AES /EBU audio is available enabling paths at 15 kHz for FM and 20 kHz for HD Radio. The modular system offers slot-in AoIP modules that combine audio, IP transport and auxiliary data on a single card. Each card is capable of decoding four separate streams from four separate sources or time domains, eliminating the issues of clock drift associated with streaming multiple channels over IP to a single decoder. The AoIP System also features SureStream technology enabling T1 quality audio over low-cost IP links.

## STL System Over T1

The WorldNet Oslo T1-STL system transmits broadcast grade audio over T1 lines with minimal delay. Highly configurable, it can transfer either linear or enhanced apt-X encoded audio with digital or analog I/O. It can send two AES /EBU Paths at 15 kHz over a T1 for FM 1 & 2. It can also transport HD 1 & 2 UDP streams to the transmitter site in parallel with the audio streams.

The system is available as either a 1U chassis offering up to 3 duplex stereo pairs or as a 3U chassis offering up to 6 (24 channels). Multiple levels of redundancy are available on the T1 STL System for maximum reliability.

**Contact BSW For Lowest Prices**



## Powerful Satellite Receivers



*XDS-PRO4Q*

*XDS-PRO1Q*

The X Digital **XDS-PRO1Q** is a digital audio receiver that lets radio stations receive audio broadcasts from a satellite or IP radio network (live broadcast as well as programs to be stored and played later). The PRO1Q gives radio networks the ability to target their advertising to specific locations so each receiver in a network can play localized spots and other content. In addition to copy splitting, it enables spot rotation, scheduling live, store and forward programs, audio insertion, and digital live recording with playback to delay time zone feeds. It sports one balanced audio output. The **XDS-PRO4Q** has the same great features but offers four balanced audio outputs. The **XDS-PRO1QSG** is a StarGuide-compatible version of the XDS-PRO1Q that will work with existing StarGuide networks.

| | | |
|---|---|---|
| **XDS-PRO1Q** | Satellite receiver, 1 output | List $1,585.00 |
| **XDS-PRO1QSG** | StarGuide-compatible version | List $1,345.00 |
| **XDS-PRO4Q** | Satellite receiver, 4 outputs | List $2,299.00 |

**Contact BSW For Lowest Prices**

## Rock-Solid STL Transmitters/ Receivers



The Marti **STL-20C** composite transmitter and companion **SR-20C** receiver form a high-quality, frequency synthesized radio link. Depending upon the available bandwidth, the systems can transmit composite stereo with two subcarriers or digital stereo audio when used with external modems.

- Excellent composite stereo separation, low noise and low distortion
- 20 watts of power
- Separate right and left units can link for stereo operation with greater interference rejection, superb noise specifications and low channel crosstalk

| | | |
|---|---|---|
| **STL20** | Composite transmitter | List $3,000.00 |
| **SR20C** | Composite receiver | List $3,000.00 |
| **STL20M** | Mono transmitter | List $1,835.00 |
| **SR20M** | Mono receiver | List $1,835.00 |

**Contact BSW For Lowest Prices**    *MARTI*

## Economical Analog STL System



The TFT 5200 Series analog STL system features up-to-the-minute technology in a budget-friendly package. Consisting of a transmitter and receiver pair, the TFT 5200 delivers a composite or mono signal with maximum flexibility and minimum of adjustment or configuration. The transmitters have a nominal output of 10 watts. The receivers have enhanced sensitivity for optimum fade margin and reliability, and built-in automatic switchover. The RF entire system is frequency agile and set by software from the front of the transmitter and receiver. Up/down pushbuttons let you select the desired frequency.

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| **5115-5290** | 10-watt STL system | List $3,995.00 |
| **5115-5290HP** | Additional 20-watt STL transmitter only | List $2,749.00 |

**Contact BSW For Lowest Prices**    *TFT* INC

## Frequency Agile STL System



The Armstrong Xlink microprocessor-controlled transmitter/receiver system is frequency agile with heightened sensitivity and impressive selectivity. Virtually instant frequency changes make the XLink the perfect main and back-up STL system.

- 3 SCA, 1 MUX and 1 Mono inputs
- Front panel LCD display for easy control and monitoring of system parameters
- Remote control ready
- Seamlessly interfaces with Armstrong's DX Series of Digital encoders and decoders

| | |
|---|---|
| **XLINK** | List $5,550.00 |
| **XLINKR** | List $2,575.00 |

**Contact BSW For Lowest Prices**    ARMSTRONG

# Moseley STLs Are Trusted By Broadcasters Worldwide

**Moseley**

## High Speed LAN/ IP Transmitters

The high-speed Lanlink HS 900 and HS 900D are long-range (up to 30 miles) point-to-multipoint IP/Ethernet/IP-based facility controller solutions. They allow broadcasters to take advantage of existing 950 MHz aural STL antenna infrastructure and bring LAN connectivity, along with two RS-232 data circuits, between a single studio and multiple transmitter/studio sites. The LanLink connects remote controls, audio codecs for back-up STL and can also provide audio/video connectivity.

**LANLINKHS900** List $3,990.00
**LANLINKHS900D** List $5,990.00 with duplexer
**Contact BSW For Lowest Prices**

## Dedicated Starlink Amp

Specially designed for use with Moseley Starlink STL systems, the SL9000RFA linear power amplifier delivers 10 watts of output power for robust operation on difficult STL paths.

- Boosts STL link budget by 10 dB
- Operates within ratings of Moseley LanLink duplexer
- Output Isolator protects from antenna and cable faults

**SL9000RFA** List $2,450.00
**Contact BSW For Lowest Prices**

**Gives you 8 uncompressed stereo audio streams!**

## High Capacity Digital Aural STL/TSL

The Moseley Event 5800 provides a bidirectional E1/IP link capable of eight uncompressed stereo audio streams and IP for remote networking applications. It combines conservative bandwidth allocation with powerful Reed-Solomon Error Correction, Trellis Coded Error Correction, and an interleaver to overcome multipath and channel impairments.

- Transports up to 9 radio stations with uncompressed digital audio over a single link
- Bidirectional for backhaul of confidence monitor, RPU, or satellite downlinks
- IP Ethernet capacity supports network applications, remote servers, surveillance and security, Internet, and email connections
- Separate IDU and ODU design eliminates transmission line losses

**EVENT5800** List $9,995.00
**Contact BSW For Lowest Prices**

## Efficient STL Systems

Moseley's Starlink SL9003Q is an open architecture, all-digital aural STL without compromise. Using spectrally efficient QAM (Quadrature Amplitude Modulation) technology, it conveys up to four linear uncompressed audio channels over a single narrow bandwidth 950 MHz STL channel. This uncompressed 16-bit linear audio is absolutely uncompromised and can be configured with up to two pairs of stereo audio (that's like getting two radio signals for the price of one). AES/EBU I/O, combined with a sample rate converter, provide seamless connection without delay. Selectable digital audio sampling rates of 32, 44.1 or 48 kHz.

| | | |
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| **SL9003Q2S** | 1 stereo pair 44.1 kHz audio sampling 16 QAM modulation | List $12,950.00 |
| **SL9003Q-4S** | 2 stereo pairs 32 kHz audio sampling 32 QAM modulation *(on request two 44.1 kHz stereo pairs at 128 QAM can be special ordered)* | List $16,250.00 |
| **SL9003Q-2SLAN** | 1 stereo pair 44.1 kHz, UDP Mux for HD Radio, 32 QAM mod. | List $15,450.00 |
| **SL9003Q-4SLAN** | 2 stereo pair 32 kHz., UDP Mux for HD Radio, 64 QAM modulation | List $18,750.00 |

**Contact BSW For Lowest Prices**

## Digital STL System Over T1

The Starlink 9003T1 is a powerful, all-digital modular system for transmitting high-quality audio over T1 lines. It provides great flexibility in configuring multiple channel STL/TSL. It uses a range of personality modules and daughter cards in a 3-rack unit mainframe. The mainframe can house up to eight application-specific modules including 16-bit PCM linear digital audio, ISO/MPEG layer II or apt-X source coding and more.

| | | |
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| **SL9003T1-2XO** | 2-channel, simplex (uni-directional) T1 STL system | List $6,250.00 |
| **SL9003T12X2** | 2-channel, duplex (bi-directional) T1 STL system | List $8,750.00 |
| **SL9003T12X2LAN** | 2-channel, duplex T1 STL system with LAN duplex Ethernet channel | List $10,750.00 |

**Contact BSW For Lowest Prices**

## State Of The Art Audio Transporter

The Moseley Rincon Software Defined Audio Transporter delivers multichannel digital audio over IP, TDM or Radio links and networks simultaneously. Rincon conveys four AES stereo audio channels in 2x2, 4x0 or 3x1 configurations, and operates linear uncompressed, MPEG Layer 2 and MP3, AAC LC and LD, G.711 and G.722.

| | | |
|---|---|---|
| **RINCON300** | with AES I/O and remote control | List $2,250.00 |
| **RINCON413** | with AES and Analog I/O, 3X1 | List $2,950.00 |
| **RINCON422** | with AES and Analog I/O, 2X2 | List $2,950.00 |
| **RINCON431** | with AES and Analog I/O, 1X3 | List $2,950.00 |
| **RINCON440** | with AES AND ANALOG I/O, 4X0 | List $2,950.00 |

**Contact BSW For Lowest Prices**

**$ WHY DON'T WE PRINT OUR PRICES?** We are constantly negotiating with our vendors, buying in bulk and putting together special packages to bring you the best price every day.

> **I know I can count on BSW, and now my daughter who's starting her own engineering career knows the same. I like that I can call anytime and reach someone with knowledge of the equipment they offer and if they don't know the answer, they'll quickly get the answer...even to the point of a conference call with the manufacturer. It's also good knowing that BSW has in stock many of the products they sell so delivery time to the 'Valley of the Sun' is reduced.**
>
> —Chuck Beck,
> Phoenix, AZ

## Always ON.

The engineer is the **"behind the scenes HERO"** that makes sure radio stays 'ON'. He's on call around the clock—weekends, holidays, every day—because he has to be. Radio is always 'ON' and he is the one that makes sure it stays that way. At BSW, we salute this hero of radio and are dedicated to serving him.

broadcast gear from people you trust

**BSW**

*At BSW, we put a little bit of ourselves in every order!*

**"BSW has been a huge contributor to the success of EMF Broadcasting's mission! Time after time, BSW's Sales Team has gone the extra mile to ensure availability and timely shipment of critical equipment. "**

—Rick Heerema, Procurement & Logistics Specialist, EMF Broadcasting Engineering

**Need to see more?**

See our full line of transmitters at **www.bswusa.com/transmitters**

# Cutting-Edge Crown FM Transmitters

## The Crown E Series

See the video at bswusa.com/FME750

### Direct To Channel Digital FM Transmitters

Crown Broadcast's new E Series of digital FM transmitters boasts the latest technology for superior performance. It also offers an industry-leading warranty of up to 10 years with a proactive maintenance service. Each model features a built-in direct to frequency digital exciter for great sound quality and flexibility, as well as built-in dynamic RDS encoding, FM Limiter, Digital Stereo Generator, user-adjustable FSK identification and full command and control via Web Server, SNMP, RS232 or GPIOs. The E series transmitters are powered by the industry giant, Ecreso, in collaboration with Crown Broadcast.
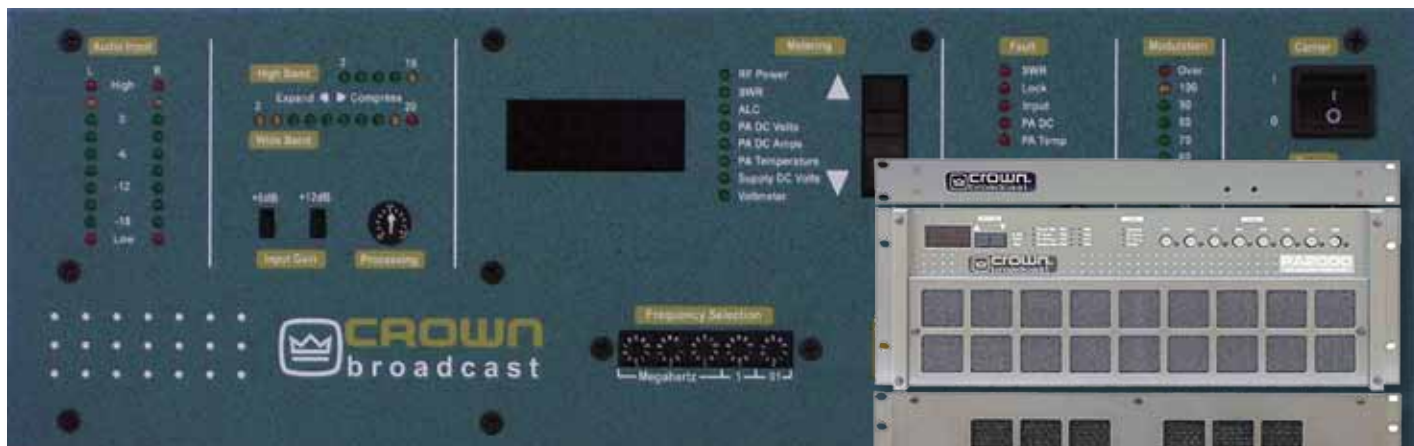
- Totally solid-state, no tune
- Direct to frequency digital modulator for ultra-clear audio quality
- TCP/IP, SNMP management
- Advanced Measurement Interface for detailed analysis of the RF Spectrum, MPX Spectrum, Audio Spectrum and Peak Meters
- Built-in RDS encoder
- Powered by Ecreso
- Up to 10-Year warranty
- FCC Type Certified for LPFM

| FME-20 | 20 watt, 2RU with GPIO | List $3,160.00 |
| FME-100 | 100 watt, 2RU with GPIO | List $3,990.00 |
| FME-350 | 350 watt, 3RU with GPIO | List $4,990.00 |
| FME-750 | 750 watt, 3RU with GPIO | List $5,990.00 |
| FME-1000 | 1,000 watt, 3RU with GPIO | List $6,990.00 |
| FME-1500 | 1,500 watt, 3RU with GPIO | List $9,490.00 |
| FME-2000 | 2,000 watt, 3RU with GPIO | List $10,990.00 |
| FME-5000 | 5,000 watt, 3RU with GPIO | List $33,995.00 |

**Contact BSW For Lowest Prices**

crown

# BSW is Your Best Source for Quality Crown Transmitters



*FM150T*

## High Performance FM Transmitters

Crown Broadcast FM transmitters feature a built-in audio processor and stereo generator (higher power models also include an exciter) and deliver a consistently high level of performance.

Boasting low loss circuit boards and copper heat spreaders in the RF chain, they function with less heat and improved life span. A robust power supply with switching voltage and power regulators for AC or DC operation let you use them anywhere power can be generated.

The 4 kW FM4000T consists of two FM2000A transmitters with two redundant PA systems and two redundant power supplies. It can operate with the loss of one PA or PS at 1,100 watts, and if both go down it can operate at 250 watts exciter power for the ultimate in up time!

| | | |
|---|---|---|
| FM30T | 30-watt FM | List $4,195.00 |
| FM150T | 150-watt FM | List $5,795.00 |
| FM300T | 300-watt FM | List $6,895.00 |
| FM600T | 600-watt FM | List $8,995.00 |
| FM1000T | 1-kw FM | List $15,995.00 |
| FM2000T | 2-kw FM | List $20,995.00 |
| FM4000T | 4-kw FM | List $41,885.00 |

**Contact BSW For Lowest Prices**

- Low/Medium/High power transmitters with built-in audio processor and stereo generator (FM1000T,
- FM2000T and FM4000T also include exciter)
- 87-108 MHz user-selectable frequency range
- Frequency Agile from front panel
- SWR metering from remote control
- Ability to control output power from remote control
- 3-Year warranty
- 24-hour service support
- Meets or exceeds all FCC requirements

*FM4000T*

**$** **WHY DON'T WE PRINT OUR PRICES?** We are constantly negotiating with our vendors, buying in bulk and putting together special packages to bring you the best price every day.

⌂ **crown**

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## FM Translators With Built-In Receiver

Crown Broadcast stand-alone FM translators boast a built-in receiver and are specifically designed to meet today's broadcast needs.

Low loss circuit boards and copper heat spreaders in the RF chain let them operate with less heat and improved life span. A robust power supply with switching voltage and power regulators for AC or DC operation gives you extra flexibility.



*FM30R*

- Built-in receiver
- Frequency Agile from front panel
- SWR metering from remote control
- Ability to control output power from remote control
- 3-Year warranty
- 24-hour service support
- Meets or exceeds all FCC requirements

| | | |
|---|---|---|
| FM30R | 30-watt translator with built-in receiver | List $4,195.00 |
| FM150R | 150-watt translator with built-in receiver | List $5,795.00 |
| FM300R | 300-watt translator with built-in receiver | List $6,895.00 |
| FM600R | 600-watt translator with built-in receiver | List $8,995.00 |

**Contact BSW For Lowest Prices**

⌂ **crown**

*"Replacing network with Crown Transmitters. BSW was very easy and helpful replacing these units."*

⭐ ⭐ ⭐ ⭐ ⭐

Talahassee, FL

## Frequency Agile FM Exciters

Crown Broadcast stand-alone FM exciters are frequency agile and offer SWR metering from remote control. Like all Crown Broadcast gear, they are built to last.

- Frequency Agile from front panel
- SWR metering from remote control
- Ability to control output power from remote control
- 3-Year warranty
- 24-hour service support
- Meets or exceeds all FCC requirements

⌂ **crown**

| | | |
|---|---|---|
| FM30E | 30-watt exciter composite input only | List $3,495.00 |
| FM150E | 150-watt exciter composite input only | List $4,995.00 |
| FM300E | 300-watt exciter composite input only | List $5,995.00 |
| FM1000E | 1kW amplifier and power supply, FM30E exciter (please specify 7/8 EIA or 7-16 DIN) | List $14,995.00 |

**Contact BSW For Lowest Prices**

*BEXT XT 30*

*BEXT XT 700*

# The Best from BEXT

BSW is delighted to offer BEXT solid-state transmitters and amplifiers, renowned for their high quality, low maintenance operation in even the most challenging environments.

## Rugged, Modular Exciters/Transmitters

The BEXT **XT 30** is a value-priced exciter offering 30 watts of power in a compact, 1 RU stainless steel enclosure. Frequency agile, its functions are accessible via a handy LCD display. It also features a built-in stereo generator, a modular design for easy servicing and much more. The **XT 700** solid-state, modular FM exciter/transmitter delivers up to 700 watts of power in a rugged, stainless steel 2 RU enclosure. It offers fast access to all functions and parameters via a user-friendly menu display and features instant frequency programmability directly from the front panel.

| | | | |
|---|---|---|---|
| **XT700** | 700W  FM exciter/transmitter | List $6,895.00 | **Contact BSW For Lowest Prices** |
| **XT30** | 30W  FM Exciter/ Transmitter | List $2,895.00 | |

*BEXT XL 1000*

*BEXT XL 1500*

*BEXT XL 2000*

## Powerful, Ultra-Compact Transmitters

The BEXT XL series of solid-state FM transmitters features models of up to 2,000 watts in lightweight, ultra compact 2-RU enclosures. All models come standard with a built-in exciter (direct audio input) and a convenient large LCD display, with frequency and parameters settable through the front panel menu or remotely. All functions including frequency reassignment can be remotely supervised and controlled by PC via modem.

- No proprietary software necessary, can be supervised via HyperTerminal
- Convenient large LCD Display
- Main parameters available on rear terminal board for analog remote control
- Proportionate auto-foldback for uninterrupted operation
- Includes built-in low pass/harmonic filter

| | | | |
|---|---|---|---|
| **XL1000** | Up to 1000W | List $8,795.00 | |
| **XL1500** | Up to 1500W | List $11,995.00 | **Contact BSW For Lowest Prices** |
| **XL2000** | Up to 2000W | List $14,995.00 | |

## Solid-State, Modular Exciter/Transmitter

The BEXT XT 500 solid-state, modular FM exciter/transmitter delivers up to 500 watts of power in a rugged, stainless steel 2 RU enclosure. It offers fast access to all functions and parameters via a user-friendly menu display and features instant frequency programmability directly from the front panel.

| | | | |
|---|---|---|---|
| **XT500** | Up to 500W | List $5,995.00 | |
| **XT300** | Up to 300W | List $4,995.00 | **Contact BSW For Lowest Prices** |
| **XT150** | Up to 150W | List $4,495.00 | |

*BEXT FR500*

*BEXT FR700*

## Broadband, Solid-State FM Amplifiers

These highly efficient FM amplifiers from BEXT offer high reliability, easy handling and consistent performance.  Totally broadband, with no tuning requirement, they give you fast access to all functions and parameters via user-friendly menu displays with pushbuttons. Automatic gain control provides fixed output power even in case of fluctuating drive power, while excessive temperature and excessive drive power protection ensures ultra-reliability.

- Lightweight, compact size cabinets
- Easy access modular construction
- Overload reset system with indicator lights
- Direct 90 V to 260 V extended range AC power input

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| **FR500** | 500W | List $3,995.00 | **Contact BSW For Lowest Prices** |
| **FR700** | 700W | List $4,895.00 | |

See the video at bswusa.com/ES

*FM300ES*

# PTEK Transmitters

## Transmitter/Exciters Feature Built-in Stereo Generator

Designed and manufactured in the USA, PTEK ES Series solid-state FM exciters/transmitters cover 20 to 1000 watt power ranges and offer full remote control ability.

| | | |
|---|---|---|
| **FM150ES** | 150W FM Exciter/Transmitter | List $3,700.00 |
| **FM300ES** | 300W FM Exciter/Transmitter | List $5,000.00 |
| **FM500ES** | 500W FM Exciter/Transmitter | List $6,000.00 |
| **FM1050ES** | 1200W FM Transmitter | List $9,000.00 |

**Contact BSW For Lowest Prices**

- Totally solid-state, no tune
- Wide range input 88 to 264 VAC
- Built-in stereo generator
- Composite and XLR inputs
- Built-in field programmable FSK ID for translators
- Remote control interface
- Overheating/VSWR protection
- 88-264 VAC power input
- Digital front panel programmable
- 3-year warranty on all parts and labor
- Designed and manufactured in the U.S.A.

# Ultra-Reliable Armstrong Transmitters

## Single Tube Three Phase FM Transmitters

Armstrong's Single Tube Transmitters boast a grounded grid, broadband PA design that offers several benefits not found in other transmitters. The single tube in this configuration never oscillates and does not need to be neutralized (this is also the most stable transmitter design available). Depending on the power level of your transmitter you may enjoy tube life up to 5 years or more, while the broadband design of the PA offers the lowest AM noise levels to be found in a tube transmitter.

These transmitters are loaded with safety features. Thermostatic protection will shut down the transmitter in the event of PA overheating before major damage to the tube or other PA components can occur. A fiber optic arc detection circuit will alert you of PA arcing. Heat sensors will trigger user-selected alarms that will alert your engineer to overheating components.

Power supply components are on a dolly that rolls out from the transmitter cabinet. This lets the engineer have complete access to all components without having to squeeze into the transmitter cabinet.

| | | |
|---|---|---|
| FM10000T2 | 10 kW | List $44,750.00 |
| FM15000T2 | 15 kW | List $53,600.00 |
| FM20000T2 | 20 kW | List $57,850.00 |
| FM35000T2 | 35 kW | List $74,850.00 |

**Contact BSW For Lowest Prices**

**Designed for continuous use and high reliability!**

- 88-108 MHz (Broadband PA) frequency range
- 1/4 wave grounded grid PA cavity
- Fiber optic PA arc detection
- PA temperature protection advanced control system
- CD quality audio
- More internal sensors than any other transmitter
- Compatible with HD Radio

*FM10000T2*

*X1000B*

## Armstrong X Series Solid-State AM Transmitters

These rugged and reliable 500- and 1000-watt AM transmitters offer high quality audio with low maintenance and are the perfect solution for replacing older style solid state and tube AM transmitters.

Housed in a heavy-duty aluminum chassis, they easily fit into a 19" rack taking up only seven rack spaces (12.25"). They boast three power level settings that can be easily field set to give you versatility for full power and pre sunrise/post sunset power adjustment. They are HD Radio compatible, with an external RF input that can be used for digital signal injection, and offer complete remote control capability via a rear mounted DB 25 connector.

- Optimized multiphase modulator (flat group delay, low source impedance)
- Capable of +150% positive modulation
- Designed to easily accept the new digital IBOC signal
- Three preset power levels and full remote control capability
- Two hot-pluggable 600 Watt RF modules for extra reliability and headroom
- Two high efficiency switching power supplies
- Fully redundant RF, modulator, cooling system and power supplies
- +90% RF PA efficiency

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|---|---|---|
| X500B | 500 Watt | List $8,850.00 |
| X1000B | 1000 Watt | List $11,450.00 |

**Contact BSW For Lowest Prices**

## Series B Solid-State Transmitters With Exciters

Armstrong Series B solid-state FM transmitters utilize a building block approach to achieve the required transmitter output power. Multiples of Armstrong's FM2000B self-contained solid-state amplifier are rack mounted with an appropriately sized driver and externally combined. The amplifier uses 300-watt RF modules that contain the Philips BLF 278 MOSFET. This commonly available FET has been proven in thousands of solid-state transmitters in use worldwide.

The transmitters also come with a CD-quality FMX Series exciter, redundant power supplies, are remote control ready, and are compatible with HD Radio.

Each output device is thermostatically protected and protected against excessive VSWR by a fold back circuit, which proportionally reduces power when VSWR is present. In addition the transmitter combiner also triggers fold back when external VSWR is detected.

Metering and Alarm indications are available for each amplifier, the exciter and the driver. And overall transmitter metering and alarms are available both on the transmitter and for remote monitoring via a DB25 connector.

*FM650B*

- Self contained 2 kW solid-state amplifiers
- Redundant power supplies (3 per amplifier)
- Complete status for individual amplifiers
- Total system status and control
- VSWR foldback and protection
- CD quality exciter
- Remote Control Ready
- Compatible with HD Radio

| | | |
|---|---|---|
| FM650B | 650 Watt: FM650B + FMX-30B | List $7,350.00 |
| FM1300B | 1.3 kW: FM1300B + FMX 30B | List $11,350.00 |
| FM2500B | 2.5 kW: FM2500B + FMX-30B | List $17,250.00 |
| FM5000B | 5 kW: (2X) FM2500B + FMX150B | List $42,375.00 |
| FM7500B | 7.5 kW: (3X) FM2500B + FMX150B | List $53,375.00 |
| FM10000B | 10 kW: (4X) FM2500B + FMX-300B | List $69,475.00 |
| FM12500B | 12.5 kW: (5X) FM2500B + FMX-300B | List $89,825.00 |

**Contact BSW For Lowest Prices**

📞 **CALL US** to get a quote on your equipment list and save big!

# The Best EAS Technology is Always at BSW

*ENDEC-RP2*



*Digital ENDEC*

**BSW CUSTOMER FAVORITE**

| Feature-packed and cost-effective!

## Proven EAS Encoder/Decoder

The Sage Digital ENDEC offers an internal AES/EBU interface, LAN support, and a Web Browser-based interface to support a new generation of EAS users. While the Digital ENDEC continues to support Radio, TV and Cable users, it also supports the first responder and state/county/local emergency centers with emerging standards such as IPAWS and CAP. Future-proof, it is designed to be ready for future revisions to the EAS system. Accessories include Pro and Lite versions of Emergency Management Software, a relay panel to control up to 3 additional stations from a single ENDEC and a remote control to activate functions within the ENDEC system. See our website for more details.

| | | |
|---|---|---|
| **DIGITALENDEC** | EAS Encoder/Decoder | List $2,695.00 |
| **ENDEC-PRO** | Emergency management software (pro) | List $1,850.00 |
| **ENDEC-DJ** | Emergency management software (lite) | List $600.00 |
| **ENDEC-RP2** | Multi-station relay panel | List $1,025.00 |
| **ENDEC-RC1** | Remote control | List $1,150.00 |

**Contact BSW For Lowest Prices**

*Accessories:*

| | | |
|---|---|---|
| **RM-1** | rack mount for ENDEC-RP2 | $53.75 |
| **FP-1** | filler panel for ENDEC RP-2 | $39.99 |

- 6 audio inputs; 6 serial ports
- Encoder and Microphone input
- 4x20 LCD display
- Internal speaker and Line Out
- Four contact closures
- Five GPIO inputs
- Web-Based control; 10/100 Base-T LAN support
- 2 USB connectors for printers, additional serial ports, future expansion
- Software is stored in FLASH and is updateable via the LAN or the USB interface
- AES/EBU Digital Audio Interrupt with active switching
- 64 MByte onboard storage for log files

**SAGE** *Alerting Systems*

## Powerful Digital EAS Encoder/Decoder

The Digital Alert Systems DASDEC-II covers all current EAS requirements and supports a wide range of physical connections and interface protocols. Whether simple GPI/O, over serial, USB, or IP-networking, master control and station automation are within its control capabilities. It covers both stereo analog and digital (AES) audio switching and incorporates a fail-safe bypass to eliminate off-air worries.

It boasts dual GPI/O (2 in, 2 out) with selective FIPS/EAS message based triggering, as well as a hardware expansion slot to accommodate either an 8 port GPI/O board, a dual audio input expansion for a total of 6 monitored inputs, or the MPEG output encoder. It also supports several optional network attached GPI/O modules for triggering equipment at co-located or remotely located sites. Visit our website for complete details on DASDEC-II systems.



| | | |
|---|---|---|
| **DASLPFM** | DASDEC-II low-power FM decoder package | List $2,695.00 |
| **DASLPFMR** | DASDEC-II low-power FM decoder w/ AM/FM/NOAA receivers | List $3,390.00 |
| **DASRAD** | DASDEC-II Radio encoder/decoder | List $2,995.00 |
| **DASRADR** | DASDEC-II Radio encoder/decoder w/ AM/FM/NOAA receivers | List $3,690.00 |
| **DASDECIR** | DASDEC-II Intelligent remote package | List $4,595.00 |
| **DASDECII-LC** | Emergency Messaging Decoder | List $1,995.00 |

**Contact BSW For Lowest Prices**

*Digital Alert Systems*

## EAS Encoders/Decoders, Decoder

The TFT **EAS 911R2** is an FCC Type-Certified EAS Encoder/Decoder with two balanced audio inputs, one RS-232C input, a balanced audio output, an RS-232C output, impact printer and digital voice recorder. The **EAS 911R4** sports four audio inputs. The **EAS911D** permits full EAS compliance for stations that qualify for decoder-only operation. It boasts two frequency-agile receivers (one AM, one FM is standard) for FCC mandated monitoring assignments.



*EAS911R4*

| | | |
|---|---|---|
| **EAS911R4** | Encoder/Decoder, 4 inputs | List $2,195.00 |
| **EAS911R2** | Encoder/Decoder, 2 inputs | List $1,700.00 |
| **EAS911D** | Decoder, 2 built-in receivers | List $2,105.00 |

**TFT** INC

# BSW is Your Source For all Things EAS



**CAP compliance without breaking the bank!**

## Stand-Alone CAP-to-EAS Converter

The Gorman-Redlich CAP-DEC 1 is a stand-alone CAP-to-EAS converter for use with your existing emergency alerting equipment. This cost-effective device allows broadcasters to easily meet Common Alerting Protocol (CAP) compliance requirements mandated by the FCC without requiring the purchase of an additional encoder/decoder system or other costly equipment.

The CAP-DEC 1 is CAP 1.2 compliant and requires only one unit of rack space. Compatible with any existing EAS encoder/decoder made by any manufacturer, it features a powerful 1.6GHz dual core processor and 1GB of memory, built-in text-to-speech conversion functionality, fast Gigabit network capability with built in firewall for security, automatic clock synchronization via NTP servers, and nearly limitless storage capacity for logs and audio messages. It lets you print alert reports to USB or network printer, update software via LAN or USB, and gives you the option to print, store and email logs via its built-in email server. Ready for anything, the CAP-DEC 1 boasts five USB ports for peripherals.

**CAP-DEC1**   ~~List $1,450.00~~   -**Contact BSW For Lowest Prices**

## Affordable EAS Rackmount 3-Receiver Chassis



| | | |
|---|---|---|
| **EAS1** | EAS encoder/decoder system | ~~List $1,950.00~~ |
| **EAS1CG** | EAS encoder/decoder system with Character Generator | ~~List $2,750.00~~ |

**Contact BSW For Lowest Prices**

Dayton provides a cost-effective receiver package for EAS requirements. The AFC3 receiver rack holds three receivers. It is already outfitted with connectors and circuitboards so all you have to do is choose from any combination of AM, FM, NOAA Weather or Public Service receivers to fill the rack (each receiver is sold separately).

The **AF225C3** is a precision FM (mono) broadcast receiver that is PLL controlled. The frequency of operation is selected using internal DIP switch combinations. A continuous LINE receiver output is provided as well as an audio output for driving an 8 Ohm speaker. The **AF315C3** is the AM version. The **AF612C3** is a special receiver for NOAA weather radio broadcasts in the VHF public service bands at 162.400, 162.425, 162.450, 162.475, 162.500, 162.525 and 162.550 MHz. It is designed to meet professional EAS equipment input requirements and features a built in alarm tone detector. The **AF810C3** is a PLL controlled, public service band monitor designed for monitoring the 148 to 175 MHz range with tone detectors to un-mute the receiver.

## Gorman EAS1 EAS Encoder/Decoder

Gorman-Redlich provides a cost-effective EAS system. Features: 6 audio inputs; selectable manual or automatic modes; programmable automatic interruption of stereo program lines; five programmable relays to supply contact closures for automation or other signal equipment; messages can be scrolled on a PC screen. The EAS-1/CG adds a character generator, requires CAP-DEC1 to be legal.



| | | |
|---|---|---|
| **AFC3DAYTON** | 3-Receiver chassis | ~~List $449.95~~ |

**Contact BSW For Lowest Prices**

**MODULES**

| | | |
|---|---|---|
| **AF225C3** | FM receiver | ~~List $309.95~~ |
| **AF315C3** | AM receiver | ~~List $309.95~~ |
| **AF315DAYTON** | AM receiver for AFC3DAYTON | ~~List $309.95~~ |
| **AF612C3** | NOAA Weather receiver | ~~List $319.95~~ |
| **AF810C3** | Public Service receiver | ~~List $319.95~~ |
| **AF225** | FM Receiver, Stand-Alone | ~~List $309.95~~ |

**Contact BSW For Lowest Prices**

**DAYTON INDUSTRIAL CORPORATION**

## Essential CAP-to-EAS Converter

The 3320 CAP-to-EAS Converter (CAP-EAS) continuously monitors a CAP source to seek new emergency messages and generates an EAS protocol output for connection to existing FCC Type Certified EAS Encoder/Decoders. It connects to the Internet via an RJ-45 jack and has a high level audio output for connection to the EAS Encoder/Decoder. When connected to a TFT EAS 911, it will monitor message activity, report status, and can even email staff accordingly. The unit switches to an alternate server (s) in the event of primary server failure and sends feedback of its status to the CAP server. Updates are handled automatically



between the it and the CAP server without any operator intervention. It provides the FCC mandated link between CAP and EAS and can connect to any FCC approved EAS encoder/decoder or decoder only.

**CAP-EAS**   CAP to EAS converter   ~~List $1,600.00~~

**Contact BSW For Lowest Prices**

**TFT** INC

## Multi-Module EAS Receiver System



The compact EAS 930A Multi-Module Receiver for use with TFT's EAS 911 Emergency Alert System (adjacent page) is digitally tunable from the front panel and comes complete with chassis, built-in monitor, power supply, AM receiver module, FM receiver module, and 7-channel NOAA Weather Radio Receiver module. All modules are frequency-synthesized and offer auto-changeover and alarm. A front panel LED in each receiver confirms proper RF and audio levels. A 4th slot is available for another receiver: AM, FM, VHF-Low, VHF-High, or UHF public safety.

| | | |
|---|---|---|
| **EAS930A** | AM FM and NOAA modules, with one empty slot | ~~List $1,580.00~~ |

**Contact BSW For Lowest Prices**

**MODULES**

| | | |
|---|---|---|
| **7100-4283A** | AM Receiver | ~~List $375.00~~ |
| **7100-4284A** | FM Receiver | ~~List $375.00~~ |
| **7100-4285A** | Weather Radio Receiver | ~~List $395.00~~ |

**Contact BSW For Lowest Prices**

**TFT** INC

## Tuners

### Frequency-Agile FM/SCA Desktop Receiver

The AF200A is a desktop receiver with great sensitivity, carrier operated relay, balanced outputs, and carrier and modulation indicators for both the main and SCA received signals.

**AF200A**   List $329.95   **$289⁰⁰**

**DAYTON INDUSTRIAL CORPORATION**

### FM/SCA Receiver with Stereo Demodulator

Designed for FM monitoring requirements, the Dayton AF210 has Stereo, SCA and RDS demodulators.

• Frequency PLL controlled (switch selectable)
• Wide and narrow band AGC to prevent overload
• Selectable 25, 50 or 100 kHz (standard) frequency tuning steps
• LED indicators for signal strength, main carrier, SCA carrier, RDS presence and more
• Balanced and unbalanced outputs
• Composite audio output, SCA audio output

**AF210**   List $639.95

**Contact BSW For Lowest Prices**

**DAYTON INDUSTRIAL CORPORATION**

### Fully Loaded FM Relay Receiver

Inovonics secures its place at the forefront of 21st century technology with the Model 631—the latest frequency-agile, digitally tuned receiver for FM translator and other off-air applications.

• Menu-driven access of display and function selections
• Dual IF bandwidth for quickly clearing up adjacent-signal problems
• Easy antenna alignment thanks to crisp readouts of signal strength and multi-path distortion
• Remote controllable

**63100**   List $1,490.00

**Contact BSW For Lowest Prices**

**INOVONICS**

### Dual AM/FM Tuner in One Rackspace

Two tuners in a single rack space! The Australian Monitor MYMDT dual AM/FM tuner is perfect for off-air monitoring in the control room or other studios where you need to verify signal. It features 10 user selectable presets and AM Mono, FM stereo outputs on both tuners. Basic antenna included.

**MYMDT**   List $352.80   **Contact BSW For Lowest Prices**

AUSTRALIAN MONITOR

### Quartz Synthesized AM/FM/RDS Tuner

Rolls' latest AM/FM tuner comes in a tight single-rack-space package and adds new features such as RDS display, programmable 9-10 kHz AM centers switching so it may be operated in the United States as well as Europe, 40 AM/FM presets, headphone output, XLR outputs and signal strength meter. Remote control included.

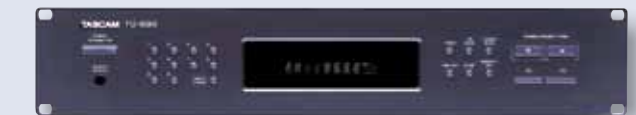**RS80**   List $333.00   **$269⁰⁰**   **ROLLS**

### Digital AM/FM Tuner

Replace your old analog tuner with the compact Rolls HR78. The HR78 is a PLL synthesized digital AM/FM tuner in a feature-packed half-rack-size chassis. It comes with FM and AM antennas, and the 1/8" output has plenty of juice to drive a pair of headphones.

• Retains presets when power is off
• 18 presets, 12 FM and 6 AM
• Large LCD digital display
• Output Level control
• Auto search up and down
• US or International AM frequency centers
• RCA and 1/8" (3.5 mm) outputs
• Rack ears included

**HR78**   List $200.00   **$179⁰⁰**   **ROLLS**

### Budget-Friendly AM/FM Tuner

The TU690 is an affordable AM/FM rack mountable tuner with an extensive feature set.

• Quartz PLL synthesized tuning system
• Manual/auto/preset tuning; 30 FM/30 AM presets; preset memory back-up
• Multi-function florescent display; timer on/off and clock function
• Remote control

**TU690**   List $329.99   **$299⁹⁹**   **TASCAM**

*MSRA-RM*

*MSRA*

### Control up to Four Stations with One ENDEC

DM Engineering's Multi Station Relay Adapters (MSRA and MSRA-RM) are microprocessor based, three stereo channel accessories for the Sage ENDEC EAS encoder-decoder that allow a single ENDEC to control up to four stations. They are compatible with the original Sage ENDEC SE1822 and the Digital ENDEC 3644 when used in the analog audio mode. All digital commands and EAS audio is supplied by the ENDEC, and the MSRA interprets these commands to select the appropriate station or stations for EAS broadcast.

| | | |
|---|---|---|
| **MSRA** | Tabletop model | **$519.00** |
| **MSRA-RM** | Rackmount model | **$579.00** |

**DM Engineering**
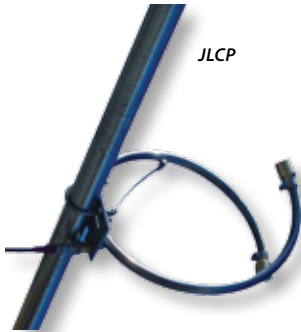
# BSW Offers a Great Selection

## Jampro FM Antennas

*Since 1954, Jampro has delivered consistent performance and quality based on rock-solid engineering. Today, over 15,000 broadcasters worldwide benefit from Jampro systems, and BSW is the number one source for Jampro antennas.*

**JAMPRO**

*JLCP*

## Circularly Polarized Low Power FM Antennas (may also be used for translators)

The JLCP is designed specifically for omni-directional low power applications such as LPFM, Translator and Booster stations.

| # Bays | Model # | Input Connector | List Price | Max input power |
|--------|---------|-----------------|------------|-----------------|
| 1 | JLCP-1 | Type "N" | $895.00 | 500 Watts |
| 2 | JLCP-2 | Type "N" | $1,970.00 | 500 Watts |
| 2 | JLCP-2-1KW | 7/8" EIA | $2,935.00 | 1KW |
| 2 | JLCP-2-2KW | 7/8" EIA | $3,375.00 | 2KW |
| 3 | JLCP-3 | 7/8" EIA | $4,100.00 | 1KW |
| 3 | JLCP-3-2KW | 7/8" EIA | $5,725.00 | 2KW |
| 4 | JLCP-4 | Type "N" | $3,935.00 | 500 Watts |
| 4 | JLCP-4-1KW | 7/8" EIA | $4,900.00 | 1KW |
| 4 | JLCP-4-2KW | 7/8" EIA | $5,780.00 | 2KW |

## Vertically Polarized Low Power FM Antennas

**Available in configurations up to 8 bays. Contact BSW for more details**

The JLVP is a low power antenna designed specifically for omni-directional translator/booster applications. The simplicity of the JLVP design gives low power stations the flexibility needed to meet their individual requirements.

| # Bays | Model # | Input Connector | List Price | Max input power |
|--------|---------|-----------------|------------|-----------------|
| 1 | JLVP-1 | Type "N" | $935.00 | 500 Watts |
| 1 | JLVP-1-1KW | 7/8" EIA | $1,195.00 | 1KW |
| 2 | JLVP-2 | Type "N" | $1,750.00 | 500 Watts |
| 2 | JLVP-2-1KW | 7/8" EIA | $2,935.00 | 1KW |
| 4 | JLVP-4 | Type "N" | $4,080.00 | 500 Watts |
| 4 | JLVP-4-1KW | 7/8" EIA | $5,045.00 | 1KW |

*JLVP*

## Circularly Polarized Medium Power FM Antennas

**Radomes and configurations up to 12 bays available. Contact BSW for more details.**

The JMPC antenna is the medium power version of the acclaimed PENETRATOR antenna, which has become an industry standard for quality and performance.

| # Bays | Model # | Input Connector | List Price | Max input power |
|--------|---------|-----------------|------------|-----------------|
| 1 | JMPC-1 | 1-5/8" EIA female | $3,520.00 | 10 kW |
| 2 | JMPC-2 | 1-5/8" EIA female | $5,080.00 | 10 kW |
| 3 | JMPC-3 | 1-5/8" EIA female | $7,590.00 | 10 kW |
| 4 | JMPC-4 | 1-5/8" EIA female | $10,155.00 | 10 kW |

*JMPC*

## Circularly Polarized High Power Antennas

The JAMPRO JHPC antenna is the high power version of the industry-standard PENETRATOR antenna, offering exceptional performance and rugged design.

| # Bays | Model # | Power Gain | List Price | Max input power |
|--------|---------|------------|------------|-----------------|
| 1 | JHPC-1 | 0.46 | $4,935.00 | 10 kW |
| 2 | JHPC-2 | 1.00 | $7,910.00 | 20 kW |
| 3 | JHPC-3 | 1.5 | $10,870.00 | 25 kW |
| 4 | JHPC-4 | 2.1 | $14,270.00 | 35 kW |

*JHPC*

## Why don't we print our discount prices?

We're not being coy. We're not playing hard to get. We just want to give you the best possible deal. We're constantly negotiating for the best possible price, so sometimes we can go lower than a manufacturer's minimum allowed advertised price. But if we made the price public we'd be violating our agreement with them. We also don't want to look like we're bragging (we're a modest bunch at BSW).

Another way we can bring you lower prices is through volume discounts. Just give us your equipment wish list and let our expert sales people work their magic. We think you'll be glad you did.

# of Broadcast Antennas

## ERI FM Antennas

*For more than 65 years, ERI has served the broadcast industry with products of the highest quality and dependability. BSW is proud to offer a wide line of ERI antennas to meet your broadcast needs.*

Antennas

**" We can help you choose the right configuration for your unique needs. Call 800-426-8434 for help. "**

—Justin Warbreck, Sales Rep

### Low Power FM Antennas (1 - 4 bays)

The 100A Series antenna is the latest development in ERI's famous ROTOTILLER® style FM antenna. The 100A Series antenna is designed for non-pressurized, translator and low power FM applications. This antenna is also available in half wavelength bay-to-bay configurations, which will limit RFI problems by reducing downward and upward radiation.

Mounting brackets and attachment hardware suitable for round members up to 4" diameter are included. Stand-off pole mounting brackets and antenna input jumper cables are also available. Contact BSW for your specific application.

*ERI*

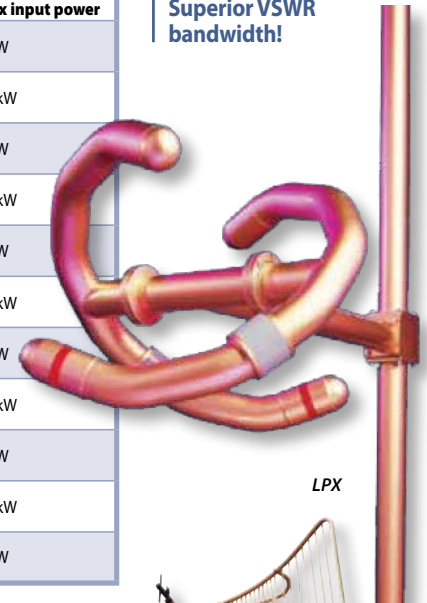| Type | # Bays | Model # | Input Connector | List Price | Max input power |
|---|---|---|---|---|---|
| 100A Series single bay low power FM antenna. Numeric Power Gain: 0.42 | 1 | 100A-1M | 7-16 DIN Male | $1,868.00 | 1000 watts |
| 100A Series two bay low power FM antenna, full wavelength bay to bay spacing. Numeric Power Gain: 0.90 | 2 | 100A-2F | 7-16 DIN female | $3,621.00 | 2000 watts |
| 100A Series four bay low power FM antenna, full wavelength bay to bay spacing. Numeric Power Gain: 1.92 | 4 | 100A-4F | 7-16 DIN female | $7,127.00 | 2000 watts |
| 100A Series two bay low power FM antenna, half wavelength bay to bay spacing. Numeric Power Gain: 0.63 | 2 | 100A-2F-HW | 7-16 DIN female | $3,621.00 | 2000 watts |
| 100A Series four bay low power FM antenna, half wavelength bay to bay spacing. Numeric Power Gain: 1.18 | 4 | 100A-4F-HW | 7-16 DIN female | $7,127.00 | 2000 watts |

### Medium Power FM Antennas (1 - 4 bays)

ERI is the only manufacturer to use large diameter outer conductors and a completely enclosed, pressurized, internal series feed system. The result is a simple and reliable method of coupling power to the elements. Unlike competing designs, ERI series fed antennas do not require a troublesome secondary current loop for element excitation with all the resulting disadvantages. All ERI antennas include brackets for mounting on leg, pole, or face mounting (up to 42-inch uniform cross section tower); brackets for other mounting configurations are optionally available. Contact BSW for your specific application.

| Type | # Bays | Model # | Input Connector | List Price | Max input power |
|---|---|---|---|---|---|
| LPX Series Single Bay Medium Power FM Antenna, End Fed. Numeric Power Gain: 0.4611 | 1 | LPX-1E | 1-5/8-inch EIA female | $4,049.00 | 9 kW |
| LPX Series two bay medium power FM antenna, center fed, full wavelength bay to bay spacing. Numeric Power Gain: 0.9971 | 2 | LPX-2C | 3-1/8-inch EIA female | $9,110.00 | 12 kW |
| LPX Series three bay medium power FM antenna, end fed, full wavelength bay to bay spacing. Numeric Power Gain: 1.5588 | 3 | LPX-3E | 1-5/8-inch EIA female | $9,883.00 | 9 kW |
| LPX Series three bay medium power FM antenna, center fed, full wavelength bay to bay spacing. Numeric Power Gain: 1.5588 | 3 | LPX-3C | 3-1/8-inch EIA female | $12,027.00 | 12 kW |
| LPX Series four bay medium power FM antenna, end fed, full wavelength bay to bay spacing. Numeric Power Gain: 2.1332 | 4 | LPX-4E | 1-5/8-inch EIA female | $12,800.00 | 9 kW |
| LPX Series four bay medium power FM antenna, center fed, full wavelength bay to bay spacing. Numeric Power Gain: 2.1332 | 4 | LPX-4C | 3-1/8-inch EIA female | $14,944.00 | 12 kW |
| LPX Series two bay medium power FM antenna, end fed, half wavelength bay to bay spacing. Numeric Power Gain: 0.702 | 2 | LPX-2E-HW | 1-5/8-inch EIA female | $6,966.00 | 9 kW |
| LPX Series two bay medium power FM antenna, center fed, half wavelength bay to bay spacing. Numeric Power Gain: 0.702 | 2 | LPX-2C-HW | 3-1/8-inch EIA female | $9,110.00 | 12 kW |
| LPX Series three bay medium power FM antenna, end fed, half wavelength bay to bay spacing. Numeric Power Gain: 1.012 | 3 | LPX-3E-HW | 1-5/8-inch EIA female | $9,883.00 | 9 kW |
| LPX Series three bay medium power FM antenna, center fed, half wavelength bay to bay spacing. Numeric Power Gain: 1.012 | 3 | LPX-3C-HW | 3-1/8-inch EIA female | $12,027.00 | 12 kW |
| LPX Series four bay medium power FM antenna, end fed, half wavelength bay to bay spacing. Numeric Power Gain: 1.307 | 4 | LPX-4E-HW | 1-5/8-inch EIA female | $12,800.00 | 9 kW |

**| Superior VSWR bandwidth!**

*LPX*

### Antennas / STL / RPU

Popular Yagi, Log Periodic, and Grid models for use in the 160, 450 and 950 MHz bands. Please note that this is only a sampling. Contact your BSW professional for additional items.

**| Ultra-reliable, even in extreme weather!**

**Kathrein**
| | | |
|---|---|---|
| PR950 | Antenna, Paraflector | List $832.00 |
| MF950B | Antenna,940-960MHZ,Miniflector | List $546.00 |
| MKPX2 | Mounting Bracket 2.375" | List $27.00 |

**Kathrein**
| | | |
|---|---|---|
| TY900 | Yagi Antenna | List $158.00 |
| CA7-460 | Yagi Antenna 450-470 Frequency Range | List $295.00 |
| HDCA10-HCM | Yagi FM Antenna. | List $930.00 |

**Kathrein**
| | | |
|---|---|---|
| YA7-FMH-HCM | Yagi Receive Antenna | List $570.00 |

**Marti**
| | | |
|---|---|---|
| SC48 | 4 Ft Parabolic Antenna | List $1,017.00 |
| YC150 | Yagi Antennas | List $250.00 |
| G6450-1 | RPU Base Station Antenna | List $253.00 |

**Mark**
| | | |
|---|---|---|
| P9A72GNU | Antenna, 6' Grid, 940-960 MHZ | List $1,513.00 |
| P9A96GNS | Antenna, 6 Ft 4.5 Diameter Pipe | List $2,200.00 |

**Contact BSW For Lowest Prices**

*PR950*

## AM Modulation Monitors

# High Quality, Precision




*AMM4*

### Powerful AM Reference Receiver and Modulation Monitor

The Inovonics 525 AM Reference Receiver and Modulation Monitor is specifically designed to give accurate AM readings with Hybrid Digital (IBOC) transmissions. It is menu-driven, with a peak-hold LCD display that shows simultaneous positive and negative modulation, incoming RF level and asynchronous noise.

• Maintains measurement accuracy in the presence of IBOC digital carriers
• Easy menu-navigated setup and operation
• Bright LCD display shows positive and negative peaks simultaneously
• Audio response is independent of measurement bandwidth (can be programmed in 1kHz steps between 10kHz and 2kHz)
• Front-panel alarms and rear-panel tallies for overmodulation and carrier/audio loss
• Comes with a weatherproof directional loop antenna

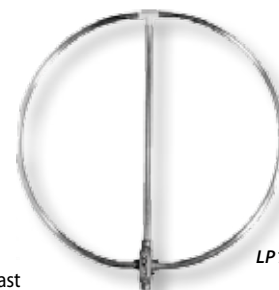**525-00**   List $2,450.00   **Contact BSW For Lowest Prices**


*AMM2C*

Isolated outputs for modulation and carrier alarms!

## RF Test Equipment

### Delta Electronics Impedance Bridges

Measure the operating impedance of antennas, networks, transmission line sections and the common point of directional antenna systems while they are functioning at operating power levels. Please note that this is only a sampling. Contact your BSW professional for additional items.


*OIB-1*

| | | |
|---|---|---|
| **OIB-1** | Impedance Bridge with 18" leads | List $5,695.00 |
| **OIB-3** | Impedance Bridge with 12" leads | List $8,100.00 |
| **RG4B-120** | Receiver/Generator, 120 VAC w/ Batteries | List $17,650.00 |

**Contact BSW For Lowest Prices**

### Belar AM Modulation Monitors

The AMM2C modulation monitor is an all solid-state AM demodulator that measures the modulation characteristics of AM broadcast transmitters over 260 kHz to 50 MHz. It boasts a unique carrier-referencing system for peak flasher indications.


*LP1*

Visit our website for more information on these and other fine Belar products.

| | | |
|---|---|---|
| **AMM2C** | AM mod monitor | List $1,750.00 |
| **AMM3A** | AM mod monitor | List $1,975.00 |
| **AMM4** | AM freq monitor | List $1,650.00 |
| **RFA2** | AM RF amplifier | List $990.00 |
| **LP1** | Shielded AM loop antenna | List $390.00 |
| **LP1A** | Shielded antenna w/ preamp | List $490.00 |

**Contact BSW For Lowest Prices**



## RF Monitoring Equipment

### Precise Medium Wave Field Strength Meter



The Potomac PI-4100 directly measures electromagnetic field strength in the 520 kHz to 5.1 MHz frequency spectrum. It combines a laboratory quality radio frequency voltmeter, a calibrated, shielded loop antenna, an internal GPS receiver, an internal calibration source, and data acquisition hardware and software in a single rock-solid package weighing well under 7 lbs.

**PI4100**   List $14,975.00

**PI**

**Contact BSW For Lowest Prices**


*1901-2*

### Potomac 1900 Series

The Potomac 1900 Series of digital antenna monitors offers 5 1/4 inch units containing control/ measurement circuitry for up to 12 towers, digital display of all measurements, local operating controls, and an interface to a remote control system. Each of the control/measurement modules (one for each tower in the system) provide continuous analog outputs relative to the ratio and phase for each tower. These outputs may be connected to the telemetering inputs of the remote control device. The outputs may also be connected to an array of meters to prove a continuous and simultaneous display of each tower in the system.

| | | |
|---|---|---|
| **1901-2** | Up to 2 towers | List $11,330.00 |
| **1901-3** | Up to 3 towers | List $12,900.00 |
| **1901-4** | Up to 4 towers | List $14,470.00 |

**Contact BSW For Lowest Prices**

**PI**



### TFT Modulation Monitors

The 923A AM modulation monitor offers a precise demodulator for accurate AM proof-of-performance measurements, 500 kHz - 40 MHz (high level) without tuning.

**923A**   List $1,625.00   **Contact BSW For Lowest Prices**

*TFT* INC.



RF Equipment

**❝ No fair peaking! Confirm the condition of your signal before the FCC sends you a friendly reminder. ❞**

—Adam Repp, Sales Rep

# Equipment from BSW

## Linear RF Ammeters

These units from Delta offers RF power measurement from 20KHz - 5MHz. Choose the DTCA system, or select individual components from the list below. Please note that this is only a sampling. Contact your BSW professional for additional items.

Meters with the "EXR" suffix provide an internal relay to remotely disconnect the rectifier circuit input from the RF input and ground the rectifier circuit.

The suffix "HV" appended to any of the TCA series model numbers specifies that the current transformer supplied with the meter is the high voltage type rated for operation at conductor voltages as high as 28 kV peak (20 kVRMS).

The suffix "XHV" appended to any of the TCA series model numbers specifies that the current transformer supplied with the meter is the extra high voltage type rated for operation at conductor voltages as high as 60 kV peak (42.4 kVRMS).

**Delta**

| | | |
|---|---|---|
| TCA10EXR | Transformer Coupled RF Ammeter | List $1,495.00 |
| TCA10EXHV | Transformer Coupled RF Ammeter | List $2,075.00 |
| TCA10EXRHV | Transformer Coupled RF Ammeter | List $2,075.00 |
| DTCA10HV | Digital RF Ammeter | List $3,200.00 |
| DTCA10XHV | Digital RF Ammeter | List $6,460.00 |

**Contact BSW For Lowest Prices**

## Delta RF Sampling Toroids

**Delta**

| | | |
|---|---|---|
| TCT1 | Transformer, .50V/A 42.4 KV Rating | List $595.00 |
| TCT1XHV | Transformer, .50V/A 42.4 KV Rating | List $4,250.00 |

**Contact BSW For Lowest Prices**

## Thermocouple AM RF Ammeters

Kintronic Labs provides a wide variety of Weschler square law thermocouple ammeters. Contact your BSW professional for selection assistance.

**RT-351**          List $402.00

**Contact BSW For Lowest Prices**

## AM Dummy Loads

Kintronic Labs offers a wide variety of AM dummy loads, from 1kW up to 600kW. Lower power loads are supplied with either EIA or cable-clamp terminations. The cable clamp terminations eliminate the need for an RF connector on the terminating end. Power rating of these loads is carrier power plus 140% modulation.

**DL-2-12CC**   A one kW load designed to accept ½-inch cable, terminating in a cable clamp   List $1,776.00

**DL-5-78EIA**   A five kW load designed to accept 7/8-inch cable, terminating in a 7/8-inch EIA flange   List $2,878.00

**Contact BSW For Lowest Prices**

## AM RF Contactors

Unlike more expensive four-port transfer switches, Kintronic RF Contactors provide a selection of single pole, double throw (SPDT) or double pole, double throw (DPDT) RF contactors that can be wired to switch between a single transmitter and antenna and dummy load; or in the DPDT version, select between two transmitters and the antenna or dummy load. Contactors can be supplied for 115VAC or 230VAC operation.

These contactors can also be used as replacements in existing phasors or ATUs (antenna tuning units). Contact BSW for your specific requirements.

**Kintronic**

**RCF-40-20-1-110**   A 40 Ampere, 20kV SPDT contactor for 115VAC operation   List $920.00

**RCF-40-20-1-220**   A 10 Ampere, 20kV SPDT contactor for 230VAC operation   List $920.00

**RCF-40-20-2-110**   A 40 Ampere, 20kV DPDT contactor for 115VAC operation   List $1,191.00

**RCF-40-20-2-220**   A 10 Ampere, 20kV DPDT contactor for 230VAC operation   List $1,191.00

**Contact BSW For Lowest Prices**

## AM RF Controllers

RF Control Panels provide local and remote control of transfer switches or contactors. many configurations are available, from simple transmitter-antenna-load selection to multiple tower directional arrays. Contact BSW to find out more.

## TRC Series AM Directional PLC Controller

Tunwall Radio offers timed-sequence controllers to prevent damage to expensive contactors if switched "hot". Fully interlocked with both local and remote control capability. Contact BSW for more information.

## Kintronic Main/Aux/Dummy/Antenna Controller

Designed for 19-inch rack mounting. Provides local and remote control of customer-supplied RF contactor.

**PS-C-1R**   Main/Aux Dummy/antenna selection controller   List $2,483.00

Contains one RFC-40-20-2-115 DPDT RF Contactor mounted in an enclosure and wired for 115VAC operation. RF Inputs accept ½-inch cable, terminating in cable clamps for ease of connection (no RF connectors are required). Other power and voltage versions are available. **Contact BSW for details.**

**MADSH422110412**   1kW Main/Aux/Dummy/Antenna Switching Unit – specify wall or rack mount   List $3,252.00

**Contact BSW For Lowest Prices**

## Isocouplers

Isocouplers permit an FM, STL, or RPU antenna to be mounted on a series-fed (hot) AM tower. This is only a sampling. Contact your BSW professional for more information.

**Kintronic**

| | | |
|---|---|---|
| FMC0.1 | Isocoupler - 100 W, 700 to 975 MHz | List $1,745.00 |
| FMC0.2P | Isocoupler - 200 W, 935 to 985 MHz for STL | List $1,097.00 |
| FMCO.5B | Isocoupler - 500 W, 150 to 699MHz | List $1,944.00 |
| FMC1.5 | Isocoupler - 1.5 KW, 88 to 149 MHz | List $1,944.00 |

**Contact BSW For Lowest Prices**

# What Setup Do You Need? We'll Help You Find It.

## Ground Strap

Copper strap for use in RF bus work and interconnections in AM/MW tuning circuits.

**Kintronic**

| | | |
|---|---|---|
| **34201000** | 1" x .020" Copper Strap, per lb | |
| (13 ft per lb) | | List $9.00 |
| **34202000** | 2" x .022" Copper Strap, per lb | |
| (6 ft per lb) | | List $12.50 |
| **34254000** | 4" x .025" Copper Ground Strap | |
| (2.5 ft./lb) | | List $12.50 |
| **34303000** | 3" x .032 Copper Ground Strap | |
| (2.5 ft./lb) | | List $12.50 |

**Contact BSW For Lowest Prices**

## Tower Lighting Chokes

Transformers that permit the installation of AC power lines on an AM tower for lighting.

**Kintronic**

| | | |
|---|---|---|
| **LC-2-10** | Tower Lighting 2 Wire Choke | |
| | | List $550.00 |
| **LC-3-10** | Tower Lighting 3 Wire Choke | |
| | | List $725.00 |
| **LC-4-10** | Tower Lighting 4 Wire Choke | |
| | | List $875.00 |

**Contact BSW For Lowest Prices**

*Extensive lightning protection!*

## Transient Voltage Surge Suppression (TVSS)

*Polyphaser, Transtector, and LEA International operate under the umbrella of the Protection Technology Group. The company provides a wide variety of surge suppression devices. Shown below is only a partial listing of products. Contact your BSW professional for more information.*

### PolyPhaser Data Line/Filter Protectors

The **IX-2L1M1DC48-IG** offers T1\E1, 48 Vdc data line protection with isolated grounding. The **TUSX-NFM** provides low PIM, DC short coaxial protection.

| | |
|---|---|
| **IX-2L1M1DC48-IG** | List $227.28 |
| **TUSX-NFM** | List $95.00 |

**Contact BSW For Lowest Prices**

*TUSX-NFM*

### Transtector Ethernet Surge Protection

Transtector **1000-1188-4** DXR Quad Box Housing for up to four Ethernet modules.

Transtector **1000-1194** UL 497A Ethernet Surge Protection Module – Transtector DXR module RJ45-Cat 5.

Transtector **1101-1001** UL 497B Ethernet Shielded RJ-45 Surge Protector with ground stud.

**Contact BSW For Lowest Prices**

### Transmitter Building and Studio Surge Protection

These LEA devices are intended to be mounted at the AC mains, providing protection for the entire building.

LEA TVSS Surge Suppressor **A73-00-5000** Model DS2, 120/208 3-phase Wye wall mounted. 225 kA surge current capacity per phase.

LEA TVSS Surge Suppressor **A76-00-5000** Model DS2, 120/208 3-phase Wye wall mounted using MOV and silicon technology.

**LEA manufactures a number of surge suppressor configurations. Contact your BSW professional with your specific requirements.**

## Tower Lighting

### TWR Tower Lighting

TWR Lighting, Inc. is a worldwide leader in specialized hazard lighting and aviation obstruction lighting products and services. Below are just a few of their available systems and components.

*BB620*

**TWR**

| | | |
|---|---|---|
| **OLB116** | Obstruction Lamp, 116 Watt, 120V, 116A21TS | List $8.00 |
| **BB620** | 620 watt/120 volt Beacon Bulb (620PS40P) | List $47.95 |
| **PF-250** | Flasher, Solid State | List $118.00 |
| **FS15530RF** | Flasher, Solid State, for Hot Towers | List $185.00 |

**Contact BSW For Lowest Prices**

*TWR Lighting, Inc.*
*Enlightened Technology™*

### TWR Red Lighting Systems

Beacon – 300mm FAA Type L-864 – A medium intensity beacon, two bulb design with 350 degree horizontal coverage, FAA approved.

Obstruction Light – OL1 FAA TypeL-810 – a single low intensity FAA approved obstruction light, consists of one 116W lamp. Two typically installed.

**OL1** Obstruction lamp, 116W

**Contact your BSW professional to discuss your particular needs.**

### TWR LED Incandescent Lighting Systems

Obstruction Light - OL1 LED FAA Type **L-810** – very low power consumption, reducing power needs by 96%, FAA approved, and very reliable – 5 year warranty

Beacon - LED RED FAA Type **L-864** Beacon – low power consumption, using 90% less energy than incandescent. FAA approved and creates no EMI/RFI.

BSW can also supply dual LED Red/White Strobe lighting as well as beacon and side light accessories such as ice shields and mounting arms.

**Contact your BSW professional to discuss your particular needs.**

### Lightning Arrestors

ERI produces a huge line of RF and structure products, including lightning dissipation system. The Lightning Spur operates as a shield to reduce potential between your tower and storm cell by transferring electrical charge to the adjacent ionizing air molecules. Call BSW with your requirements.

**LRK0005** Lightning Spur Kit List $400.00

**Contact BSW For Lowest Prices**

*ELECTRONICS RESEARCH, INC. ERI*

*Isn't there some lightning you could be arresting right now?*

*AF630*


*AF210FM*

## Feature-Rich Receivers

The Dayton **AF210FM** is a precision, single-channel FM broadcast receiver with a stereo demodulator and PLL (synthesized) tuning designed for professional broadcast applications including FM relay (translator) service. It can handle the most demanding sensitivity, distortion, and signal to noise requirements.

The **AF630** NOAA Weather Receiver is mounted in a 1 3/4 inch high, 19 inch rack mount. The front panel contains a monitor speaker, 10 segment LED indicators for Modulation and Signal Strength along with the Tone Detector Alarm indicators and controls.

| | | |
|---|---|---|
| **AF210FM** | FM Broadcast Receiver | List $549.95 |
| **AF630** | NOAA Weather Receiver | List $599.95 |

**Contact BSW For Lowest Prices**

DAYTON INDUSTRIAL CORPORATION


*AMP2-E16V-3G*

## Audio/Video Monitoring In One Unit

The Wohler **AMP2-16V-3G** 16-channel audio/video workstation lets you monitor and analyze all your audio and video feeds from one compact, easy to use unit.

• 16 channels of simultaneous, mixed-format audio metering and management
• 32 presets for complete reconfiguration of the unit with a single button press
• Mix, sum and route program audio live with no need for separate audio console

The **AMP2-E8-MDA-3G** monitors audio from DOLBY E, DOLBY Digital (AC-3), HD-SDI, SD-SDI, AES/EBU, and analog signal sources. The **AMP2-SDA** monitors two channels from analog, AES/EBU digital and SDI sources.

| | | |
|---|---|---|
| **AMP2-E16V-3G** | Audio/Video Workstation | List $9,495.00 |
| **AMP2-E8MDA-3G** | Multi-Format Audio Monitor | List $9,495.00 |
| **AMP2-SDA** | 2-channel Audio Monitor | List $2,795.00 |

**Contact BSW For Lowest Prices**

**Wohler**


*LM53-24*

## Precise Analog Audio Level Meters

Wohler LM Series analog audio level meters are optimized for viewing from a distance and are ideal VTR bays, mobile production vehicles, teleconferencing installations, multimedia systems, satellite link and cable TV facilities as well as on-air radio studios. The 24-channel **LM53-24** in-rack professional level metering system sports 24 balanced analog inputs on Mini-Phoenix connectors and features 24 vertical 53-segment level meters and a 66 dB level meter scale. The 4-channel **LM106-4** offers four balanced analog inputs on Mini-Phoenix connectors, a 72 dB level meter scale and four 106-segment horizontal level meters.

| | | |
|---|---|---|
| **LM53-24** | 24-channel, Vertical Meters | List $4,450.00 |
| **LM106-4** | 4-channel, Horizontal Meters | List $1,425.00 |

**Contact BSW For Lowest Prices**

**Wohler**



## Loaded AM/FM/Weather Radio Tuner

The Crown Broadcast RFBA-1 AM/FM/WR broadcast receiver comes standard with three receivers built into a 1-RU chassis, and is configurable to accommodate any mix of FM and AM stations plus WR. This simple-to-deploy, highly sensitive, fully DSP-based monitor system is fully frequency agile in all receivers via display and excels as a translator receiver, EAS monitor or on-air monitor.

The RFBA-1 also offers a PC based user interface, programmable output relay, firmware updates via USB port and an RDS encoder and decoder. Optional upgrades include a modulation monitor, the ability to increase single tuner to receive two weather radio signals and potential future ability to stream audio via Ethernet.

• FM Tuning Range: 76 to 108 MHz (50 kHz steps)
• AM Tuning Range: 520 to 1710 kHz (10 or 9 kHz steps)
• Weather Radio Tuning Range: 162.4 to 162.55
• Antenna Input: BNC 50 Ohm

| | |
|---|---|
| **RFBA-1** | List $1,695.00 |

**Contact BSW For Lowest Prices**

crown


*AMP1A-30*

## Highly Focused Stereo Monitors

Wohler AMP1A Series monitors offer self-powered, full fidelity stereo audio monitoring of 2 analog channels (1 stereo channel). They feature four high performance transducers driven by three power amplifiers. One amplifier/driver combination handles midrange and HF information in stereo and the second handles summed LF information below the 500 Hz crossover point. The unique design provides optimally focused sound in an ultra near field (1 to 3 ft.) working environment.

The **AMP1A-30** is a 2-channel analog audio monitor boasting two large level meters. The **AMP1A-LP10S** is a high quality speaker system with 10 stereo channels. The **AMP2A-10S** is a 2-channel analog audio monitor with metering that switches between 10 stereo sources.

| | | |
|---|---|---|
| **AMP1A-30** | 2-channel Analog Audio Monitor | List $1,450.00 |
| **AMP1ALP10S** | Analog Speaker System, 10 Stereo Channels | List $1,395.00 |
| **AMP2A10S** | 2-channel Analog Audio Monitor (10 Stereo Sources) | List $1,695.00 |

**Contact BSW For Lowest Prices**

**Wohler**


*VMQ4*

## Reliable Analog Audio Monitoring

The Wohler VMQ-4 offers voice quality confidence monitoring of up to four analog channels simultaneously. Each channel has its own dedicated power amplifier and speaker, a signal present LED and mute button. A space-saving 1RU in size, it is magnetically shielded to allow interference-free operation immediately adjacent to all CRT video monitors.

• Four balanced analog inputs
• Mute button and LED for each channel
• Powerful 94dB SPL at 2 feet
• Blowout-proof speakers

| | |
|---|---|
| **VMQ4** | List $895.00 |

**Contact BSW For Lowest Prices**
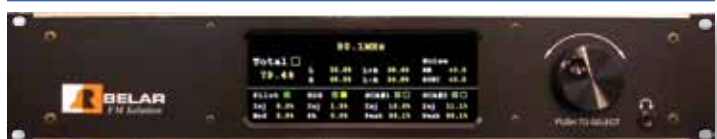
**Wohler**

# BSW Has The Right Stuff

*FMMA1*

## Cutting Edge Digital Modulation Monitors

The Belar **FMMA-1** Wizard is a microprocessor controlled, digital baseband FM modulation monitor/analyzer that precisely measures peak modulation, peaks per minute, average peak modulation, modulation density, and more. The Wizard can operate with an existing modulation monitor, or it can be configured to replace an existing baseband modulation monitor. The included Wizard Software and an IBM compatible personal computer give you real-time graphing, logging, and remote operation.

The **FMSA-1** DSP-based, microprocessor-controlled, FM Stereo modulation monitor/analyzer  digitizes the composite baseband signal and decodes the stereo multiplex portion using digital signal processing techniques. Unlike an analog design, a DSP-based design is immune to variations due to temperature or the aging and tolerance of components. As a result, the FMSA-1 delivers excellent performance while requiring virtually no adjustment. By employing linear-phase FIR filters, the FMSA-1 eliminates phase distortion in the recovered audio. This permits unprecedented accuracy in measuring modulation peaks on the Left, Right, L+R and L-R signals. These performance advances result from the mathematically pure demodulation algorithm implemented by the FMSA-1 processors.

| | | |
|---|---|---|
| **FMMA1** | Modulation Monitor | ~~List $3,550.00~~ |
| **FMSA1** | DSP-based Modulation Monitor | ~~List $3,550.00~~ |

**Contact BSW For Lowest Prices**



## Six Devices In One

Belar FMCS-1 All-in-one FM Modulation Monitor. This powerful instrument combines the features and functions of an RF Amplifier, FM Demodulator, Stereo Demodulator, RDS Decoder, and two SCA Decoders in a single package. An FFT Spectrum analyzer rounds out the features of this product.

**FMCS-1**     ~~List  $6,900.00~~

**Contact BSW For Lowest Prices**



## Easy One-Button Field Operation

The Audemat Navigator 100 FM Signal Monitor is a compact, mobile FM receiver with built-in GPS.

**NAVIGATOR100**     ~~List $4,990.00~~

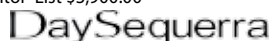**Contact BSW For Lowest Prices**

*audemat*



## Analog FM Modulation Monitor

The DaySequerra M4FM FM analog radio modulation monitor boasts a frequency agile RF input (switchable for antenna or high-level) and features a synthesized FM preselector that provides a wide RF input range of 0.5 VRMS to 5 VRMS (on 50-ohm BNC) and sensitivity of better than 100 µV on 75-ohm F-type for 50 dB quieting. The high-level input has a built-in attenuator so you connect directly to a transmitter's RF sample port for greatest accuracy.

**M4.FM**     Analog FM modulation monitor  ~~List $3,900.00~~

**Contact BSW For Lowest Prices**     *DaySequerra*

---



*FMHD1*

## HD (and More) Modulation Monitor

Equip your station for years to come with this state-of-the-art HD radio monitor. The Belar FMHD-1 will effortlessly decode HD radio signals and analog FM signals simultaneously, displaying HD radio status, data, time alignment, and configuration information, as well as audio metering and RF and audio spectrums. The FMHD-1 will monitor multiple audio streams, and its 8 user assignable analog audio outputs and 3 assignable optical AES/EBU outputs provide support for a wide variety of broadcast scenarios.

**FMHD1**     FM HD Radio mod monitor     ~~List $7,200.00~~

**Contact BSW For Lowest Prices**



*FMM2*

## Versatile Modulation Monitors

The Belar **FMM-2** FM modulation monitor is a wideband, FM monitor that measures the total modulation characteristics of monaural as well as multiplexed FM transmitters. It also works as a low distortion and low-noise FM demodulator. The **FMS2** Stereo Modulation Monitor operates in conjunction with the FMM-2.

| | | |
|---|---|---|
| **FMM2** | FM modulation monitor | ~~List  $2,290.00~~ |
| **FMS2** | FM stereo mod monitor | ~~List  $2,490.00~~ |
| **FMM4A** | FM frequency monitor | ~~List  $1,790.00~~ |
| **RFA4** | FM RF amplifier | ~~List  $1,790.00~~ |
| **SCMA1** | SCA modulation analyzer | ~~List  $2,750.00~~ |
| **FMRR4** | FM rebroadcast receiver | ~~List  $2,290.00~~ |
| **AMDA1** | AM distribution amp | ~~List    $895.00~~ |

**Contact BSW For Lowest Prices**



# But wait! There's more.

See our full line of inventory at
**www.bswusa.com/monitors**

> *$ **WHY DON'T WE PRINT OUR PRICES?** We are constantly negotiating with our vendors, buying in bulk and putting together special packages to bring you the best price every day.*

# For Effective Broadcast Monitoring

## Tunable FM SCA Monitor

Inovonics 540 SCA Modulation Monitor connects to the composite (MPX) output of any monitor, and is easily calibrated to the modulation monitor reference so no additional test equipment is required. A Full-featured SCA modulation monitor, measuring injection level, demodulated audio subcarriers, and providing a visual indication of deviation.
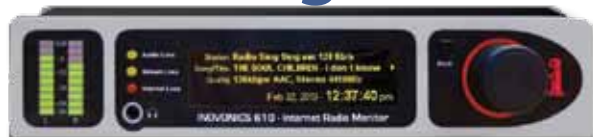
**54000**   List $1,400.00          **Contact BSW For Lowest Prices**

## Wideband FM Modulation Monitor

The Inovonics 531 FM modulation monitor combines a frequency agile wideband FM receiver with linear demodulation and metering circuitry for precise measurement of carrier modulation. Synthesized push-button tuning with one-touch memory entry permits instant comparisons between a station and its market competitors.

**53100**   List $3,200.00          **Contact BSW For Lowest Prices**

## Powerful HD Radio Monitors

The Audemat Golden Eagle off-air monitoring system combines a high quality HD/Analog receiver with automatic monitoring. It monitors the quality and continuity of several FM and HD programs in real time, sending alarms when needed.

*GoldenEagle HDFM with included touchscreen*

| | | |
|---|---|---|
| **GOLDENEAGLEHDFM** | HD/FM monitor | List $5,925.00 |
| **GOLDENEAGLEHDAM** | HD/AM monitor | List $5,925.00 |
| **TF00153** | Spectrum analyzer board | List $3,115.00 |
| **TF00154** | Remote control | List $2,435.00 |
| **TF00165** | Voice and DTMF interface | List $480.00 |

**Contact BSW For Lowest Prices**

*With BSW's modulation monitor, I can finally stay on top of my peaks!*

## State-Of-The-Art Internet Radio Monitor

The Inovonics 610 is a dedicated hardware solution for uninterrupted monitoring of streaming online radio quality and performance. It offers balanced analog and AES-digital outputs, self-logging alarms that constantly check for audio loss, stream loss and Internet loss, and an easy-to-use tuner that decodes audio and displays live metadata for MP3, Ogg Vorbis and AAC formats.

**610**   List $990.00          **$829.00**
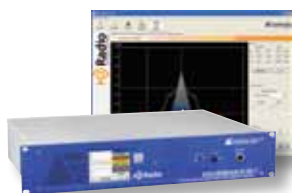
▶ See the video at bswusa.com/610

## Intuitive RDS/RBDS Encoder

The Inovonics 730 connects with virtually any playout system, sending song title and artist information to listeners' radios with full support for RT+ 'tagging' and other advanced applications. It features a front-panel LCD screen and jog wheel for convenient on-site setup and Windows software for fast and intuitive programming.

**730-00REV2**   List $2,200.00          **$1,849.00**

## Powerful FM Monitoring Solution

The Audemat FM Monitoring Silver sequentially monitors a set list of stations and continuously ensures that your FM network complies with both legislation and your expectations. With its Ethernet interface, the FM Monitoring Silver can be controlled remotely with the supplied user-friendly software or an SNMP-based network software package (such as Audemat's Broadcast Manager).

The FM Monitoring Silver offers several highly innovative features such as multi-channel monitoring (up to 10 programs), audio streaming and recording, RDS streaming, automatic scanning and remote control GPIOs.

**FMM-SILVER**   List $2,686.50

**Contact BSW For Lowest Prices**

## TFT Modulation Monitors

The Audemat Modulation Analyzer gives you everything you need for commissioning and testing an FM transmitter. Any FM signal can be simulated and then fed back into the it for comprehensive and in-depth measurement and analysis. Visit our website for complete details.

**TF00355**   List $19,820.00
**Contact BSW For Lowest Prices**

## Flexible Analog FM Modulation Monitor

The DaySequerra M4FM is a powerful and cost-effective FM analog radio modulation monitor. Its frequency agile RF input has both antenna and high-level inputs and includes a synthesized FM preselector that offers a wide RF input range and excellent sensitivity. The high-level input has a built-in attenuator so you connect directly to a transmitter's RF sample port for greatest accuracy. The flexible M4FM can be upgraded to handle HD Radio.

| | | | |
|---|---|---|---|
| **M4.FM** | FM version | List $3,900.00 | **Contact BSW For Lowest Prices** |
| **M4FM-HD** | FM/HD version | List $4,900.00 | |

# BSW Has a Great Selection of

## Transmission Line

### MYAT Rigid Transmission Line

MYAT components are easy to select. The first three digits of the part number refer to the size of line. All 201- part numbers refer to 1-5/8-inch EIA line. All 301- part numbers refer to 3-1/8-inch EIA line.

Although not listed here, MYAT manufactures rigid components from 7/8-inch EIA to 9-3/16-inch EIA. All can be supplied by BSW. Contact your BSW specialist for your specific needs.

| Description | Item | Size |
|---|---|---|
| Flanged Assembly, 20-foot, 50 ohms, flanged both ends | 201-001 | 1-5/8 inch EIA |
| | 301-001 | 3-1/8 inch EIA |
| Unflanged Rigid Line Assembly, 20-foot, 50 ohms, unflanged both ends | 201-004 | 1-5/8 inch EIA |
| | 301-004 | 3-1/8 inch EIA |
| Brass Fixed Flange, may be silver brazed or welded | 201-008 | 1-5/8 inch EIA |
| | 301-008 | 3-1/8 inch EIA |
| Brass Swivel Flange, may be silver brazed or welded | 201-009 | 1-5/8 inch EIA |
| | 301-009 | 3-1/8 inch EIA |
| Anchor insulator connector "inner bullet" for flanged/unflanged connections | 201-010 | 1-5/8 inch EIA |
| | 301-010 | 3-1/8 inch EIA |
| Stainless Steel hardware kit consisting of 4 sets of bolt, washer and nut | 201-012 | 1-5/8 inch EIA |
| | 301-012 | 3-1/8 inch EIA |
| Field Flange Adaptor – SOFT SOLDER TYPE – IN-DOOR USE | 301-013 | 3-1/8 inch EIA |
| Clamp Type Flange Adaptor – INDOOR USE includes hardware kit and line clamp | 201-014 | 1-5/8 inch EIA |
| | 301-014 | 3-1/8 inch EIA |
| Coupling assembly with supported inner conductor (bullet) | 201-017 | 1-5/8 inch EIA |
| | 301-017 | 3-1/8 inch EIA |
| Elbow, 90 degree, swivel flange, reinforced, with hardware and inner conductor (bullet) | 201-021 | 1-5/8 inch EIA |
| | 301-021 | 3-1/8 inch EIA |
| Elbow, 90 degree, unequal leg, swivel flange, reinforced, with hardware and inner conductor (bullet) | 201-023 | 1-5/8 inch EIA |
| | 301-023 | 3-1/8 inch EIA |

| Description | Item | Size |
|---|---|---|
| Elbow, 90 degree, unflanged, reinforced | 201-025 | 1-5/8 inch EIA |
| | 301-025 | 3-1/8 inch EIA |
| Elbow, 90 degree, unequal leg, unflanged, reinforced | 201-027 | 1-5/8 inch EIA |
| | 301-027 | 3-1/8 inch EIA |
| Gas barrier for nominal pressure differential with 1/8" NPT gas port | 201-050 | 1-5/8 inch EIA |
| | 301-050 | 3-1/8 inch EIA |
| Vertical Suspension Spring hanger, supports 10 feet of transmission line | 201-042-3 | 1-5/8 inch EIA |
| | 301-042-3 | 3-1/8 inch EIA |
| Lateral Brace – supports line at base of tower, includes line clamps | 201-042-8 | 1-5/8 inch EIA |
| | 301-042-8 | 3-1/8 inch EIA |
| Slip Hanger – Flange Mounted – allows for line expansion | 201-042-11 | 1-5/8 inch EIA |
| | | |

Myat also can provide reducing adaptors. These reducers adapt different sizes of line. For example, a Type N to 1-5/8 EIA would mate the output of an exciter to the 1-5/8 antenna feed line (using the appropriate cable). Several popular reducers are shown below:

1-5/8 to Type N – Myat 201-059
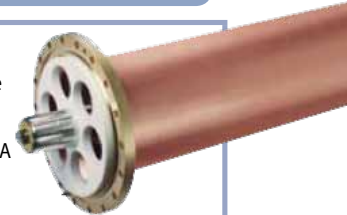3-1/8 to Type N – Myat 301-059
3-1/8 to 1-5/8 – Myat 301-064

**Contact BSW For Lowest Prices**

**CALL US** to get a quote on your equipment list and save big!

### ERI Rigid Line    Contact BSW For Lowest Prices

During broadcasting, RF heating of the inner and outer connectors causes differential expansion between them. With original-design rigid transmission line, this expansion is compensated for with sliding metal bullets. Eventually this produces wear, hot spots—and burnout. The solution to eliminating sliding-contact wear is to eliminate the sliding. All expansion of the patented ERI MACXLine inner connector is taken up with a flexible, built-in bellows. Burnout and bullet replacement are eliminated. This advantage comes with no VSWR penalty or significant cost premium. Each section comes complete with a bullet/bellows assembly, stainless steel flange hardware and pressure sealing gasket. A full range of sizes is offered. Call BSW with your requirements.

| ITEM # | Description | POPULAR CONNECTORS, ADAPTERS | POPULAR HARDWARE |
|---|---|---|---|
| STD050-10-120 | 7/8-inch, 50 ohm, 10-foot standard line section, flanged both ends, supplied with inner connector, and flange hardware kit. | RLA050-NF, STD050-52 , ACX050-10SE , | RLA000-21 |
| STD050-29-120 | 7/8-inch, 50 ohm, 10-foot standard line section, unflanged. | RLA050-NF, STD050-52 , ACX050-10SE , | RLA000-21 |
| STD050-31 | 7/8-inch, 50 ohm, 20-foot standard line section, unflanged. | RLA050-NF, STD050-52 , ACX050-10SE , | RLA000-21 |
| STD150-1 | 1-5/8-inch, 50 ohm, 20-foot standard line section, flanged both ends, supplied with inner connector, and flange hardware kit. | ACX150-20, ACX150-10SE, RLA150-050 , RLA150-NF, STD150-52 | RLA100-11-H , RLA100-21 |
| STD150-11 | 1-5/8-inch, 50 ohm, 20-foot standard line section, flanged one end, supplied with inner connector, and flange hardware kit. | ACX150-20, ACX150-10SE, RLA150-050 , RLA150-NF, STD150-52 | RLA100-11-H , RLA100-21 |
| STD150-21 | 1-5/8-inch, 50 ohm, 20-foot standard line section, unflanged. | ACX150-20, ACX150-10SE, RLA150-050 , RLA150-NF, STD150-52 | RLA100-11-H , RLA100-21 |
| STD350-1 | 3-1/8-inch, 50 ohm 20 foot standard line section flanged both ends, supplied with captivated inner connector, and flange hardware kit. | ACX350-10SE, ACX350-10SE-2 , ACX350-20, CR0007, RLA350-150 , RLA350-NF, STD350-52 | RLA300-11-H |
| STD350-31 | 3-1/8-inch, 50 ohm 20 foot standard line unflanged line section. | ACX350-10SE, ACX350-10SE-2 , ACX350-20, CR0007, RLA350-150 , RLA350-NF, STD350-52 | RLA300-11-H |
| STD350-6 | 3-1/8-inch, 50 ohm 19 foot standard line section flanged both ends, supplied with captivated inner connector, and flange hardware kit. | ACX350-10SE, ACX350-10SE-2 , ACX350-20, CR0007, RLA350-150 , RLA350-NF, STD350-52 | RLA300-11-H |

**Call or email BSW today if you don't see what you're looking for. This is just a small sampling of the RF transmission gear we carry.**

**BSW** **BSW is always there, always working…Always ON.**

# RF Transmission Line and Essential Accessories

## Foam/Air Transmission Line

### Andrew Cable

The Andrew Corporation, world leader in the design and manufacture of communications equipment and systems, is well known in the radio broadcast community for supplying high-quality transmission cable and related accessories. BSW is proud to represent a complete line of products for all your transmission cabling requirements including HELIAX foam and air-dielectric cable connectors and accessories, pressurization and accessories. HELIAX coaxial cable is designed to provide optimum electrical performance for a wide range of RF applications. Call BSW for all your Andrew needs. Because of the complexity in designing Heliax RF Transmission Line runs, consult with BSW about your project requirements. BSW keeps both line and accessories in stock. Whether its a transmission line project or an off air emergency, let BSW serve your needs.

*Because of the complexity in designing Heliax RF Transmission Line runs, consult with BSW about your project requirements. BSW keeps both line and accessories in stock. Whether it's a transmission line project or an off air emergency, let BSW serve your needs.*

**ANDREW.**

*Andrew Cable*

| SIZE | TYPE | BSW ITEM # | POPULAR CONNECTORS | POPULAR HANGER KITS | POPULAR GROUNDING KITS |
|------|------|-----------|--------------------|--------------------|----------------------|
| 1/4" | 50 ohm - Foam - Superflexible | **FSJ1-50A** | F1PNM-HF, F1PNF | 11662-3 | 223158-2 |
| 3/8" | 50 ohm - Foam - Superflexible | **FSJ250** | F2PNMH, F2PNF-C | 11662-3 | 223158-2 |
| 1/2" | 50 ohm - Foam - standard | **LDF4-50A** | L4TNM-PS, L4TNF-PS | 43211A | 241088-1 |
| 1/2" | 50 ohm - Foam - Superflexible | **FSJ4-50B** | F4PNMV2HC, F4PNF-C | 43211A | 241088-1 |
| 5/8" | 50 ohm - Foam - standard | **LDF4-5-50** | L4-5PNM-RC, L4-5PNFRC | 42396A9 | 241088-7 |
| 7/8" | 50 ohm - Foam - standard | **AVA5-50** | AL5NF-PSA, AL5NM-PSA, AL5E78-PS | 42396A-5 | 241088-7 |
| 7/8" | 50 ohm - Air - standard | **AV5-50FX** | 78EZNF, 78EZNM | 42396A-5 | 241088-7 |
| 1 5/8" | 50 ohm - Foam - standard | **AVA7-50** | AL7E158-PS, AL7E78-PS, AL7NF-PSA, AL7NM-PSA | 42396A2 | 241088-4 |
| 1 5/8" | 50 ohm - Air - standard | **HJ750A** | H7PDM, H7PNF | 42396A-5 | 241088-4 |
| 2 1/4" | 50 ohm - Foam - standard | **LDF12-50** | L12PDM, L12PDF | 42396A-4 | 241088-5 |
| 2 1/4" | 50 ohm - Air - standard | **HJ12-50** | H12PDM, H12PNF | 42396A-4 | 241088-5 |
| 3" | 50 ohm - Air - standard | **HJ850B** | H8MP302, H8MB302 | 31766A-11 | 223700-724 |

## Dehydrators

# Broadcast Bits

### Dehydrators

Air dielectric line (not foam filled) requires dry air/gas so the insulation between the inner and outer conductor is not compromised. When positive pressure is not kept on an air dielectric transmission system, a breakdown can occur within the line, and the resultant flashover can destroy the line.

Electro-mechanical dehydrators purge the line with dry gas, minimizing the potential for a flashover condition. Here is a small sample of dehydrators that BSW carries. Dehydrators come with a variety of options – low-pressure sensors, alarms. Contact BSW for a complete listing.

An alternative to an electro-mechanical dehydrator is an Andrew Gassing Kit. This kit uses a nitrogen tank to keep positive pressure on the transmission line. The kit consists of a valve/gauge regulator assembly, and 25 feet of 3/8-inch poly hose to connect from the nitrogen tank to the transmission line gas inlet.

CAUTION – The nitrogen contained in these gas tanks is under extreme pressure – over 2000 pounds per square inch. NEVER open a Nitrogen tank without a regulator attached. Never open a Nitrogen tank near your face or any other body part – serious injury or death can occur. To determine if there is gas in the tank, affix the regulator and monitor the pressure from the gassing gauge. Always secure nitrogen tanks to the wall, and cap/cover unused tanks.

| **Serious air dielectric line protection!**

**Andrew**

| | | |
|---|---|---|
| **40525B** | Desiccant type 3.0-8.0 psig dehydrator | ~~List $860.00~~ |
| **40525B-4** | Desiccant type, 1.0 –5.0 psig dehydrator | ~~List $915.00~~ |
| **MT050B-81015** | Dryline Membrane Type, automatic dehydrator, rack mountable with summary alarm. | ~~List $2,690.02~~ |
| **MT050B-81315** | Dryline Membrane Type automatic dehydrator, rack mountable with discrete alarm. | ~~List $3,185.00~~ |

***An alternative to an electro-mechanical dehydrator is an Andrew Gassing Kit***
**Specify Andrew 858C Gassing Kit** ~~List $520.00~~

**Contact BSW For Lowest Prices**

**ANDREW.**

# Complete RF Solutions From BSW

## FM Transfer Switch Control Panels



**Power Meter/ Four port switch controller**

**All necessary cable and connections**

bdi

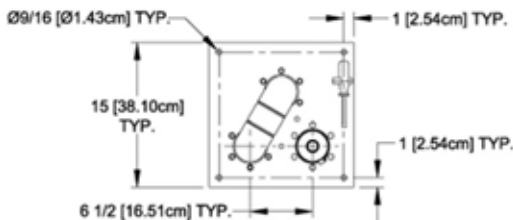### Broadcast Devices Turnkey RF Package

**Broadcast Devices**

Broadcast Devices manufactures and assembles an innovative RF power monitor and transfer switch package. Their Turn-Key RF Solution consists of an integrated power meter and four-port transfer switch controller, an ERI precision RF coupler, an ERI Four Port RF Transfer Switch, and all necessary cabling and connectors. You select the operating voltage and the size line being used. Turnkey RF Solutions are available for 1-5/8, 3-1/8, 4-1/16, 6-1/8 size lines, as well as waveguide. BDI can also provide custom power and switch solutions. **Contact BSW For Lowest Prices**

**Tunwall Radio**

### TRC Series FM Transfer Switch Control Panels

The Tunwall series of controllers can be configured for any number of switches. These semi-custom control panels are economical yet fully interlocked, and will work with any brand of transfer switch. The sequenced steps, based on a PLC (Programmable Logic Controller) save time, since all functions are pre-programmed at the factory. **Contact BSW For Lowest Prices**



### MYAT PATCH PANELS

A less costly alternative to motorized transfer switches is the RF Patch Panel. The drawback is the patch must be thrown locally and cannot be remote controlled; however, for stations with a single transmitter, antenna, and dummy load, an RF Patch Panel works nicely to provide transmitter switching between the antenna and the dummy load. Myat manufactures a variety of interlocked patch panels from three-port up to 7-port configurations. **Contact BSW to discuss your needs.**

### Delta Electronics Model 33630A
### Transfer Switch Control Panel

A rack mounted control panel for use with the Delta series of transfer switches. This is a local control panel, not designed for interconnection to remote control systems.

**33630A**  List  $1,325.00

**Contact BSW For Lowest Prices**

### ERI Motorized Switch Controller Panels
**ACS100-1**  Motorized Switch Controller Panel – designed to control one motorized RF transfer switch with 12VDC control voltage. List  $2,470.00

**Contact BSW For Lowest Prices**

DELTA ELECTRONICS

**Manually or remotely operated**

**Simplify equipment tuning**

### RF Transfer Switches

Remotely controlled, motorized switches re-route transmitter output to alternate antenna, or standby transmitter to main antenna. Please note that this is only a sampling. Contact your BSW professional for additional items.

**Delta**

| Model | Description | List |
|---|---|---|
| 6730E1 | 1-5/8" 120 VAC 50/60HZ 0-900 MHZ Coaxial Transfer | List  $4,325.00 |
| 6732E1 | 1-5/8" 240 VAC 50/60 HZ 0-900 MHZ Coaxial Transfer | List  $4,550.00 |
| 6740B | Coaxial Transfer Switch, 3-1/8",120 VAC,0-216MHZ | List  $8,750.00 |
| 6742B | Coaxial Transfer Switch  3-1/8", 240 VAC, 0-216 MHZ | List  $9,630.00 |

DELTA ELECTRONICS



**Compact, lightweight**

**Coplanar port configuration**

uci

**MCI**

1-5/8 inch EIA male four-port transfer switch. MCI switches feature a coplanar RF port configuration, which results in compact RF layouts and fewer elbows.

**61103**  List  $2,900.00

3-1/8 inch EIA male four-port transfer switch, Model 63104. MCI switches feature a coplanar RF port configuration, which results in compact RF layouts and fewer elbows.

**61104**  List  $4,450.00

4-1/16 inch EIA male four-port transfer switch, Model 63102. MCI switches feature a coplanar RF port configuration, which results in compact RF layouts and fewer elbows.

**61102**  List  $6,550.00

**Contact BSW For Lowest Prices**

📞 **CALL US** to get a quote on your equipment list and save big!

# RF Power Measurement

### RF Meters
Measures RF power in 50 ohm coaxial cable and transmission lines. Order Line Sections and Elements elsewhere on page. Please note that this is only a sampling. Contact your BSW professional for additional items.

**COAXIAL DYNAMICS**

| | | |
|---|---|---|
| 81050 | Multi-Range Wattmeter 500 W, 25-1000 MHz w/Non-Removable Element | List $541.00 |
| 81060 | Multi-Range Wattmeter 1500 W, 25-1000 MHz w/Non-Removable Element | List $599.00 |
| 81000A | Wattmeter Single Socket 5 W to 1000 W | List $299.00 |
| 81001A | Wattmeter Single Socket 5 W to 1000 W with A/B Switched DC Input | List $378.00 |
| 81100A | Wattmeter Single Socket Flanged 250 W to 25 KW | List $746.00 |
| 81102A | Wattmeter Dual Socket Flanged 250 W to 25 KW | List $863.00 |
| 81103A | Wattmeter Dual Socket Unflanged 250 W to 25 KW | List $843.00 |
| 81106A | Wattmeter with 10' Cable, Single Socket Flanged | List $746.00 |
| 81107A | Wattmeter with 10' Cable, Single Socket Unflanged | List $635.00 |
| 81108A | Wattmeter with 2-10' Cables, Dual Socket Flanged | List $863.00 |
| 81109A | Wattmeter with 2-10' Cables, Dual Socket Unflanged | List $843.00 |
| 81111A | Wattmeter Single Socket Unflanged 250 W to 25 KW | List $649.00 |
| 81113A | Wattmeter Dual Socket Unflanged 250 W to 25 KW | List $843.00 |
| 81115A | Wattmeter with 10' Cable, Single Socket Unflanged | List $649.00 |
| 81117A | Wattmeter with 2-10' Cables, Dual Socket Unflanged | List $857.00 |
| 81300A | Wattmeter Single Socket Flanged 1000 W to 50 KW | List $954.00 |
| 81301A | Wattmeter Single Socket Unflanged 1000 W to 50 KW | List $695.00 |
| 81302A | Wattmeter Dual Socket Flanged 1000 W to 50 KW | List $$1,074.00 |
| 81303A | Wattmeter Dual Socket Unflanged 1000 W to 50 KW | List $896.00 |
| 81306A | Wattmeter Single Socket Flanged 1500 W to 60 KW | List $954.00 |
| 81307A | Wattmeter Single Socket Unflanged 1500 W to 60 KW | List $695.00 |
| 81308A | Wattmeter Dual Socket Flanged 1500 W to 60 KW | List $1,074.00 |
| 81309A | Wattmeter Dual Socket Unflanged 1500 W to 60 KW | List $896.00 |
| 81311A | Wattmeter Single Socket Unflanged 1000 W to 50 KW | List $707.00 |
| 81313A | Wattmeter Dual Socket Unflanged 1000 W to 50 KW | List $907.00 |
| 81315A | Wattmeter Single Socket Unflanged 1500 W to 60 KW | List $707.00 |
| 81317A | Wattmeter Dual Socket Unflanged 1500 W to 60 KW | List $907.00 |

**Contact BSW For Lowest Prices**

*Let me guess, you got another price quote from BSW!*

Coaxial Dynamics RF Power Meters – these individual meters measure FM RF Power in 50-Ohm FM Systems. Meters must be ordered with the appropriate line section and elements. Call us for expert advise on finding the right configuration to meet your needs.

### Elements
**COAXIAL DYNAMICS**

| | | |
|---|---|---|
| 82020 | Element 5 W, 50-125 MHz | List $75.00 |
| 82021 | Element 10 W, 50-125 MHz | List $75.00 |
| 82022 | Element 25 W, 50-125 MHz | List $75.00 |
| 82023 | Element 50 W, 50-125 MHz | List $75.00 |
| 82024 | Element 100 W, 50-125 MHz | List $75.00 |
| 82025 | Element 250 W, 50-125 MHz | List $75.00 |
| 82026 | Element 500 W, 50-125 MHz | List $75.00 |
| 82027 | Element 1000 W, 50-125 MHz | List $75.00 |
| 82113 | Element 250 W, 50-125 MHz | List $121.00 |
| 82114 | Element 500 W, 50-125 MHz | List $121.00 |
| 82115 | Element 1000 W, 50-125 MHz | List $121.00 |
| 82116 | Element 2500 W, 50-125 MHz | List $121.00 |
| 82117 | Element 5000 W, 50-125 MHz | List $121.00 |
| 82118 | Element 10 KW, 50-125 MHz | List $121.00 |
| 82119 | Element 25 KW, 50-125 MHz | List $121.00 |
| 82162 | Element 300 W, 50-125 MHz | List $121.00 |
| 82163 | Element 600 W, 50-125 MHz | List $121.00 |
| 92110 | Element for 1-5/8" Line Systems 100 W, 54-108 MHz | List $394.00 |
| 92116 | Element for 1-5/8" Line Systems 10000 W, 54-108 MHz | List $394.00 |
| 92313 | Element for 3-1/8" Line Systems 1000 W, 54-108 MHz | List $394.00 |
| 92314 | Element for 3-1/8" Line Systems 2500 W, 54-108 MHz | List $394.00 |
| 92318 | Element for 3-1/8" Line Systems 50,000 W, 54-108 MHz | List $394.00 |

**Contact BSW For Lowest Prices**

## BSW Offers Low Package Pricing!
### Call or Email Us with Your Quote Today for Discount Pricing!!

Call or email BSW today if you don't see what you're looking for. This is just a small sampling of the RF transmission gear we carry.

# BSW Has a Wide Selection of RF Gear. Visit BSWUSA.COM to See Even More!

## RF Power Measurement



### Coaxial Dynamics FM RF Monitor/Alarm Panels

These panels permit the monitoring of both forward and reflected power simultaneously. The panel will alarm and shut down the transmitter within 15mS of a fault occurring. As with the stand-alone meters, these panels require a dual element line section and the appropriate elements.

### RF Monitor / Alarms

Measures forward and reflected power simultaneously. Alarms and shuts down the transmitter within 15 milliseconds of a fault. Select Line Section and Elements elsewhere on page. Please note that this is only a sampling. Contact your BSW professional for additional items.

#### Coaxial Dynamics

| | | |
|---|---|---|
| 81070 | Wattchman Station Monitor/Alarm System 2-30 Meters | List $1,201.00 |
| 81071 | Wattchman Station Monitor/Alarm System 2-30 Relay Meters | List $1,516.00 |
| 81073 | Wattchman Station Monitor/Alarm System I-30 Relay Meter | List $1,013.00 |
| 81074 | Wattchman Station Monitor/Alarm System 1-30 Relay Meter | List $1,013.00 |
| 91090 | Digital Wattchman Monitor/Alarm 100 W to 50,000 W | List $1,206.00 |
| 91091 | Digital Wattchman Monitor/Alarm 300 W to 30,000 W | List $1,206.00 |

**Contact BSW For Lowest Prices**

# Broadcast Bits

Coaxial Dynamics RF Power Meters are very versatile. The metering system consists of a line section, which is used to sample the RF energy; an element, which provides a specific calibrated signal, and the meter assembly, which displays the power. The meter may display multiple scales that can be paired to different line sections and elements. In this manner, the same meter to be used for different power levels. The Line Section is mounted in series with the transmission line. Note that the line sections can be purchased with EIA flanges, unflanged, or with other connectors.

It is good engineering practice to physically draw out the transmission line runs, indicating where the line will be broken for the line section, and whether that break uses flanged or unflanged line.

Depending on the power level to be read, the appropriate meter and element is selected from these tables. Dual socket line sections permit both forward and reflected power to be measured, when paired with the appropriate meter. It is typical practice to have a stand-alone RF power meter used to measure the dummy load power. For monitoring of FM RF output power; however, consider one of the RF Monitor/Alarm panels also found on this page.



## Line Sections

### Coaxial Dynamics

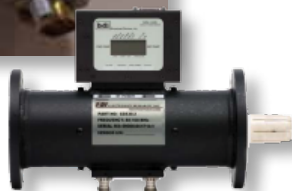| | | |
|---|---|---|
| 88500 | 7/8" 50 Ohm Single Socket Line Section | List $128.00 |
| 88500-1 | 7/8" 50 Ohm Single Socket Line Section (3-5/8" Long) | List $139.00 |
| 88500-4 | 7/8" 50 Ohm Single Socket Line Section with Navy Style DC Connector | List $144.00 |
| 88501 | 1-5/8" 50 Ohm Single Socket Swivel Flanged E.I.A. | List $345.00 |
| 88502 | 1-5/8" 50 Ohm Single Socket Unflanged | List $261.00 |
| 88503 | 3-1/8" 50 Ohm Single Socket Swivel Flanged E.I.A. | List $561.00 |
| 88504 | 3-1/8" 50 Ohm Single Socket Unflanged | List $339.00 |
| 88511 | 1-5/8" 50 Ohm 4-Port Socket Swivel Flanged E.I.A. | List $667.00 |
| 88512 | 3-1/8" 50 Ohm 4-Port Socket Swivel Flanged E.I.A. | List $878.00 |
| 88513 | 3-1/8" 50 Ohm Triple Socket Swivel Flanged E.I.A. | List $819.00 |
| 88514 | 1-5/8" 50 Ohm Dual Socket Swivel Flanged E.I.A. | List $436.00 |
| 88514D | 1-5/8" 50 OHM Dual socket Swivel Flanged E.I.A. | List $631.00 |
| 88515 | 1-5/8" 50 OHM Dual Socket Unflanged | List $401.00 |
| 88515-2 | 1-5/8" 50 OHM Dual Socket Unflanged Recessed | List $416.00 |
| 88515D | 1-5/8" 50 Ohm Dual Socket Unflanged | List $596.00 |
| 88516 | 3-1/8" 50 Ohm Dual Socket Swivel Flanged E.I.A. | List $646.00 |
| 88516D | 3-1/8" 50 Ohm Dual Socket Swivel Flanged E.I.A. | List $841.00 |
| 88517 | 3-1/8" 50 Ohm Dual Socket Unflanged | List $463.00 |
| 88517-2 | 3-1/8" 50 Ohm Dual Socket Unflanged RECESSED | List $479.00 |
| 88525 | 7/8" 50 Ohm Single Socket Line Section (3-5/8" Long) w/Mounting Bracket | List $134.00 |
| 88527 | 7/8" 50 Ohm Single Socket Line Section with Mounting Bracket | List $193.00 |
| 88529-2 | 7/8" 50 Ohm Dual Socket Line Section | List $281.00 |
| 88530 | 7/8" 50 Ohm Single Socket Line Section (3-5/8" Long) | List $181.00 |
| 88531 | 7/8" 50 Ohm Single Socket Fixed Flanged E.I.A. Line Section | List $185.00 |
| 88534 | 7/8" 50 Ohm Single Socket Swivel Flanged E.I.A. Line Section | List $271.00 |
| 88535 | 7/8" 50 Ohm Dual Socket Swivel Flanged E.I.A. Line Section | List $398.00 |
| 88536-1 | 7/8" 50 Ohm Line Section | List $161.00 |

**Contact BSW For Lowest Prices**

RF Equipment

**// Been there, done that. We have the answer to your questions. //**

—Gary Beebe, Sales Engineer / Broadcast Veteran

# RF Power Measurement



*PSW100*



*DSP100D*

## Broadcast Devices RF Power Monitoring and RF Switch Controller

**bdi**

| | | |
|---|---|---|
| **DPS100** | Power Sensor | List $1,710.00 |
| **SWP200-1R1-15-8** | RF+CTL 1-4 Port Switch + ERI 1-5/8 Coupler | List $4,614.00 |
| **SWP200-1R1-3-1-8** | RF+CTL 1-4 Port Switch + ERI 3-1/8 Coupler | List $5,274.00 |
| **SWP200-1R1-4-1-16** | RF+CTL 1-4 Port Switch + ERI 4-1/16 Coupler | List $6,066.00 |
| **SWP200-1R1-6-1-8** | RF+CTL 1-4 Port Switch + ERI 6-1/8 Coupler | List $7,254.00 |
| **SWP200-1T** | Digital RF Power Meter/Switch Controller | List $2,370.00 |
| **TMP100** | Temperature Sensor Used with SWP Series | List $87.00 |

**Contact BSW For Lowest Prices**

Broadcast Devices has combined a line section with power meter so selection of elements is not necessary. The DPS-100D is a true digital RMS FM Power Measurement system for measuring both analog and digital power levels.

Broadcast Devices DPS-100D Power Measurement System – measures analog or digital power, with +/- 5% accuracy. With backlit LCD display. Contact BSW to determine appropriate line section.

| | |
|---|---|
| **DPS100D-158** | List $3,580.00 |

**Contact BSW For Lowest Prices**

# FM Combiners/Filters

Both ERI and Jampro design and manufacture FM RF combiners. A combiner is used to combine two or more FM frequencies into a single broadband antenna. Filters may be needed when multiple FM transmitters are co-located, and prevent the generation of harmonics that may interfere with other stations.

Combiners and filters are precision devices that must be designed for the specific application – these are not off-the-shelf items. Allow adequate time for their design and manufacture. Discuss your project with BSW, and let us be your interface to the manufacturer.

## Filters

These filters reduce intermod and spurious output. We also carry filters from Coaxial Dynamics, ERI, Kintronic and Jampro. Please call for info.

### Filter / Notch Filter

**Contact BSW For Lowest Prices**

*ERI*        *JAMPRO*

# FM RF Loads



*84005N*



*9715E3*

*Did You Know...*
BSW carries more RF transmission gear than Elvis had sequins?
*Go to our website if don't see what you're looking for!*



*6705E1*

## FM RF LOADS

These 50-ohm resistive loads, commonly called dummy loads, are useful for testing the transmitter off-line. Lower power loads are usually air-cooled; however, if there is a water source at the transmitter site, a less expensive water-cooled load may be selected. Some low power loads are oil-filled.

There are a wide variety of dummy loads with just as many options. Contact your BSW counselor if you don't see what you need here:

**AIR COOLED FM DUMMY LOADS**
*Altronic*

| | | |
|---|---|---|
| **6705E1** | 5 KW Load, 1 5/8" Eia Flange | List $2,966.00 |
| **6405N** | 5 KW Load , N-Connector | List $2,002.00 |
| **6710E3** | 10 KW Load, 3 1/8" Eia Flange | List $4,455.00 |
| **6725R3** | 25KW Load | List $6,400.00 |

*Coaxial Dynamics*

| | | |
|---|---|---|
| **84005N** | Liquid/Air (Oil), 500 W Max, N (F) Connector | List $624.00 |

**WATER COOLED**
*Altronic*

| | | |
|---|---|---|
| **9705E3** | 5KW, 3 1/8 EIA Flange | List $979.00 |
| **9715E3** | 15 KW Water Cooled Load, 3 1/8" Eia Flange | List $1,329.00 |
| **9750E3** | 50KW, 3 1/8" EIA Flange | List $2,692.00 |

**Contact BSW For Lowest Prices**

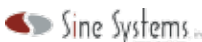*Yeah, I'm sharp, but I'm at my sharpest signing off on BSW's package discounts!*

**Now with network connectivity!**

*RAK-2*

### Rest Easy With Ultra-Reliable Remote Facility Control

Sine Systems' new RAK-2 Intelligent Rack includes an updated version of the acclaimed RFC-1 Remote Facilities Controller and offers a wired Ethernet connection with a built-in network interface and web server. Both voice and data interfaces are included as part of the standard device. Internet connectivity gives the RAK-2 new capabilities that make the Remote Facilities Controller family of devices more effective at communicating with you than ever before. System readings can be viewed with a web browser, system readings can be delivered by email or text message, and alarm notifications can be made by email or text message.

| | | |
|---|---|---|
| **RAK-2** | | List $1,999.00 |
| **RP8** | Relay panel | List $479.00 |
| **AFS3** | Audio failsafe | List $379.00 |
| **SP8** | Surge protector | List $149.00 |
| **TS1-PS** | Temperature sensor | List $67.00 |
| **ACM-2** | AC Current Monitor | List $149.00 |

**Contact BSW For Lowest Prices**

*Sine Systems inc*

### Ultra-Compact Site Manager

Audemat's Mini Control Silver is a powerful and compact system for site management and monitoring. DIN Rail-mountable, it can be configured to connect with any equipment through traditional status and metering inputs and commands (relays) or advanced connections using serial protocols or SNMP via an IP network. It can also trigger automatic actions for a complete management solution.

- Control and monitoring of all equipment at a remote site
- Automatic actions based on script
- Notifications via Email, SMS, SNMP and Voice/DTMF Phone Alert calls

**MC-SILVER**     List $1,235.00     **$1,199.00**

### Reliable Assurance Monitor and Controller

It takes hard work to maintain a large and loyal listener base. And it's important that this audience is measured accurately so that your station receives full ratings credit. Burk's PPM Assurance products protect Arbitron PPM ratings and dramatically reduces overhead by constantly monitoring all PPM encoders and providing automatic encoder toggling. Email alerts and exception reporting keep you up-to-date.

More than an encoding monitoring system, PPM Assurance is an automatic recovery solution comprised of the PPM Monitor and PPM Controller. In addition to providing reliable backup encoder activation, the PPM Monitor establishes direct data connectivity to the Arbitron equipment to verify code accuracy.

| | |
|---|---|
| **PPMMONITOR** | List $1,295.00 |
| **PPMCONTROL** | List $1,095.00 |

**Contact BSW For Lowest Prices**

**BURK** TECHNOLOGY

Remote Site Control

" **What's going on up there? Find out fast with these intelligent control systems.** "

—Paul Schweiger, Senior Sales Rep/ Broadcast Veteran

### Versatile FM/HD Radio Monitor

The Inovonics INOmini 632 is an FM and FM/HD-Radio receiver for off-air broadcast monitoring, receiving standard analog FM broadcast transmissions as well as FM/HD-Radio digital broadcasts transmitted via the FM station's associated HD1 through HD8 auxiliary, digital broadcasting channels. Analog FM and HD-Radio digital programs are both accompanied by digitized text and housekeeping data. FM RDS and HD-Radio PAD are shown on the front-panel LCD display of the 632, along with readouts of signal quality information.

**632**     List $850.00     ▶ See the video at bswusa.com/632

**Contact BSW For Lowest Prices**

*INOVONICS*

### IP-Based Transmitter Site Remote Monitoring and Control

The Audemat Relio system is a standalone or network solution offering the ultimate in remote monitoring and control applications. Packaged in a rugged 1U, 19" rackmount enclosure, it provides 64 digital inputs, 64 digital outputs and 24 analog inputs along with 9 serial ports (RS232, RS422 and RS485), 2 Ethernet ports, 4 USB ports and 1 phone line connector. IP enabled to deliver remote monitoring from virtually anywhere, it features a complete voice modem interface with DTMF capabilities for traditional remote notification and control. Its included ScriptEasy software lets you drag and drop I/O data and logic functions to generate monitoring and control scripts. The intuitive GUI interface, consisting of the Creator and the Viewer modules, supports easy development and allows real time status display and management.

**RELIO**     List $4,495.00     **Contact BSW For Lowest Prices**

### Remotely Reboots Digital Gear

The Plus-X AC-8 provides independent management of equipment connected to 120V outlets, allowing remote rebooting of digital gear. Broadcasters can also remotely manage HVAC, lighting and other appliances. It connects directly to the Burk ARC Plus remote control via Ethernet, or to any remote control (including the GSC3000 and ARC-16) using general-purpose inputs. A built-in Web server allows stand-alone remote connectivity.

Connect the Plus-X AC-8 to PCs, servers and other IT equipment, and save wasted drive time when equipment needs a power cycle. Manage facility infrastructure such as HVAC or security lighting, all without wiring equipment to remote control relays. Connect the Plus-X AC-8 to the Burk ARC Plus, interface it with an existing transmitter remote control, or operate it in web-only mode. No matter what you choose, the Plus-X AC-8 offers unmatched versatility.

The Plus-X AC-8 makes on-site work a breeze with push-button control for each outlet. And you wont have to search for power cords when disconnecting or restoring power.

**PLUSX-AC-8**     List $895.00     **Contact BSW For Lowest Prices**

**BURK** TECHNOLOGY

# The Best RDS/RBDS Options Are at BSW



## Handy RDS Encoder

The Audemat FMB50 is an RDS encoder designed specifically for radio stations and broadcasters wishing to engage listeners with a RT/PS scrolling experience or to exploit the interactive functionality offered by RT+.

**FMB50** ~~List $1,990.00~~
**FMB80** ~~List $2,990.00~~

**Contact BSW For Lowest Prices**



## Affordable RDS/RBDS Presence

The Inovonics 703 INOmini encoder is a quick and inexpensive way to an RDS/RBDS presence, with easy USB programming using the supplied Windows software. Your station's data goes into non-volatile memory, and the unit may then be re-installed at the transmitter site. The 703 will identify your station by format, display your station's "street name", and continuously transmit station promos or advertising message to your listeners. An optional rack-mount kit (RK-00) accommodates up to three INOmini-style products.

**703-00** ~~List $590.00~~ **Contact BSW For Lowest Prices**

*Accessory:*

**RK-00** Rack-mount kit ~~List $65.00~~ **$59.00**



**Get more listeners (and more revenue)!**

## Easy To Use RDS Texting System

Now that FM receivers are included in mobile devices such as the Apple iPod, Microsoft Zune and many other cell phone manufacturers, RT+ offers broadcasters the potential to ensure greater listener loyalty, and new ways of branding the station and generating revenue. With these new delivery methods comes the opportunity to offer on-air advertising clients additional exposure on these other media quickly and easily.

The Arctic Palm Center Stage Live software package lets you add "now playing", promotional messages and selective advertiser messages to your on-line stream, your website, and HD channels. It offers support for most of the major RDS\RBDS encoders via TCP/IP, UDP, or a serial connection.

Center Stage Live is available in different licensing packages. This package is for one to five sites (two stations per site).

**CENTERSTAGELIVE-1-5** ~~List $950.00~~

**Contact BSW For Lowest Prices**



## Multiple Message Scrolling Modes

The Inovonics 720 RDS/RBDS encoder offers multiple message-scrolling modes and easy, self-guided connection to station automation. Its dynamic RadioData encoder automatically parses and scrolls song title and any other information. Its front-panel LCD displays setup parameters without the need for an on-site computer, and also shows incoming raw data from station automation as well as exactly what the listener sees on his radio. Features: intuitive software and built-in diagnostics for easy installation; interfaces with popular automation systems; accepts a serial connection for automation data and features a front-panel USB port for convenient local setup; a unique 'no-header mode' allows use with unformatted, satellite-streamed song title information; works with any FM exciter and generator.

**720-00** ~~List $1,785.00~~

**Contact BSW For Lowest Prices**



## Comprehensive RDS/RBDS Encoder

The Inovonics 510 connects to the composite/MPX output of any FM receiver or modulation monitor to display all the RDS/RBDS radio-data groups.

**51000** ~~List $1,700.00~~

**Contact BSW For Lowest Prices**



WGOJ, Conneaut OH.
Gene Sharp C.E.
Eric Damron
Cody Stinson

## Always ON.

Since its origin, radio was (and still is) magic. It communicates, it entertains, and it has the ability to ignite the imagination. The engineers who maintain, fix and keep the broadcast equipment working are the behind the scenes heroes that keep the magic of radio alive. BSW and its people come from that world, and that's why we are committed, just like the engineer and the radio itself - BSW is always there, always working ... always ON.

# You're in Control with Burk and BSW

- TCP/IP-based platform; built-in web Interface
- Scales to more than 1,000 sites
- Advanced front-panel control
- Onboard automatic routines
- Email alerts for alarm conditions; selective alarm notifications
- Touch screen (ARC Plus Touch)

## Smooth Remote Site Control

The Burk ARC Plus Touch combines the features of the award winning ARC Plus with the intuitive navigation of a touch screen for smooth, comprehensive IP-based remote control. It offers easy operator access via front panel, web, PC software, smartphone or telephone, and email alerts and selective alarm reporting for efficient fault resolution. Ready for expansion, it scales to 256 metering and status channels, 256 relay pairs and 512 virtual channels.

**ARC-PLUS-TOUCH**                List $3,295.00

**Contact BSW For Lowest Prices**

*ACCESSORIES:*
**ESIPLUS**      Enhanced speech interface          List    $995.00
**Contact BSW For Lowest Prices**

See the video at
bswusa.com/ARCPLUSTOUCH

**Fully customizable interface!**

## Easy Multi-Site Management

| | | |
|---|---|---|
| AP2010-ARC-PLUS | AutoPilot Software License ARC-PLUS | List    $495.00 |
| AP2010-ARC-16 | AutoPilot Software License ARC-16 | List    $495.00 |
| AP2010-GSC / VRC2500 | AutoPilot Software License GSC | List    $495.00 |
| JETFLOWCHARTS | Requires AutoPilot Software | List    $295.00 |

**Contact BSW For Lowest Prices**

## Upgrade Your ARC-16 to ARC-Plus Without Rewiring -

Upgrading legacy ARC-16 systems is faster and more affordable than ever. The Plus-X Dual IP-8 Adapter connects to up to two ARC-16 IP-8s using the same DB37 cables as the ARC-16. Not a single channel needs to be rewired to upgrade to the ARC Plus, saving hours of work.

**PLUSX-DUAL-IP-8**       List $1,495.00
**Contact BSW For Lowest Prices**

## Plus-X I/O Options

| | | |
|---|---|---|
| PLUSX300 | 8 inputs that can be configured as Status or Analog and 8 relays | List    $695.00 |
| PLUSX600 | 16 Status, 8 Analog and 12 relays that can be paired | List    $1,295.00 |
| PLUSXIIU | 16 Status and 16 Analog - Analog may also be used as Status | List    $1,195.00 |
| PLUSXICRU | 8 pairs of relays - relays may be separated | List    $995.00 |
| RMA300 | Rack mount adapter | List    $80.00 |

**Contact BSW For Lowest Prices**

## Plus-X EM Series

Keep your transmitter running reliably by monitoring the environment and alerting staff to potentially harmful conditions. Environmental problems at remote transmitter sites can cause loss of airtime and damage mission-critical equipment. Early detection can save hours and dollars.

The Burk Plus-X EM series monitors temperature, humidity, flood/leak, and many other conditions including sound, light and security. Email, SMS and SNMP notifications ensure that responsible personnel can respond quickly. The affordable Plus- X EM Series connects to any on-site or off-site ARC Plus via LAN/WAN.

### Key Features:

- Integrates with ARC Plus over existing LAN/WAN
- Available as 64 or 32 sensor models
- Built-in temperature, light and sound sensors
- Easily expandable with external sensors
- Integrates with IP security cameras
- Alert personnel via email, SMS and SNMP traps
- Spot trends and prevent problems from developing with onboard charting
- Onboard web interface for setup, monitoring and access to historical data and charts

**PLUSX-EM32**                List $695.00

## Additional External Sensors

| | | |
|---|---|---|
| TEMP-SENSOR | Temperature Sensor | List    $35.00 |
| HUMIDITY-SENSOR | Temperature/Humidity Sensor | List    $80.00 |
| DOOR-CONTACT | Door Contact | List    $8.00 |
| MOTION SENSOR | Motion Sensor | List    $45.00 |
| FLOOD-DETECTOR | Flood and Leak Detector | List    $45.00 |
| SMOKE-DETECTOR | Smoke Detector | List $125.00 |
| TILT-SENSOR | Tilt Sensor | List    $50.00 |

**Contact BSW For Lowest Prices**

## Compact Remote Control

Built on the proven Burk ARC Plus platform, the ARC Plus SL provides affordable, full-featured broadcast remote control in a slim 1RU footprint. Its embedded web server shows telemetry, alarms and events in real-time, and a mobile PDA interface provides on-the-go access.

**ARCPLUS**       Remote Control          List $1,995.00
**Contact BSW For Lowest Prices**

*Just because you can handle a rope doesn't mean you can handle our remote site control!*

**WHY DON'T WE PRINT OUR PRICES?** We are constantly negotiating with our vendors, buying in bulk and putting together special packages to bring you the best price every day.

# Broadcast Bits

## REMOTE SITE CONTROL

Site control technology has exploded the last ten years. BSW supports companies that provide either dial-up or web access, or both. These site control systems offer remote monitoring of transmitter or remote sites, many with the ability to call out, send an email, or permit viewing the system from a web-enabled computer. Gone are the unnecessary visits to the transmitter for routine inspections. Should a fault condition occur, many could be cleared without traveling to the site. The cost savings of personnel far outweigh the equipment investment. Furthermore, many of the BSW-supplied systems can be tied together to monitor multiple sites, perfect for market clusters.

# CONTROL FREAKS

**ACS 16.2** Stereo Audio Matrix Switcher

**Site** *Sentinel® 16* 16 Channel Web-enabled Site Remote Control System

**WVRC-8 Plus** 8 Channel Web-enabled & Voice Remote Control System

**ACS 4.1**
Stereo Matrix Switcher

**WVRC-4 Plus**
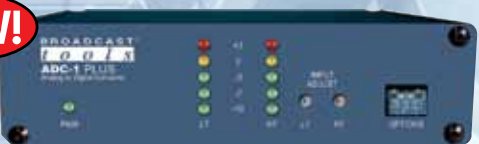4 Channel Web & Voice Remote Control System

**AES Audio** *Sentinel®*
2 Channel Web-enabled AES
Silence Monitor Plus Streaming

**Audio** *Sentinel®* **+ Steaming**
2 Channel Web-enabled Stereo
Silence Monitor

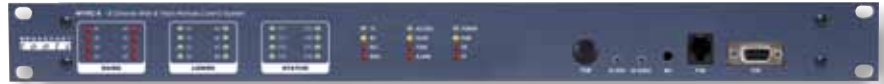**Silence** *Sentinel® Basic*

Stereo Silence Sensor

**ADC-1 Plus**
Analog to Digital Converter

**DAC-1**
Digital Audio Converter

NEW!

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*t o o l s*
**P R O B L E M   S O L V E D**

Designed in Washington State
and Assembled in the USA

www.broadcasttools.com

**BROADCAST** *t o o l s* inc.


WVRC8-PLUS


WVRC4

## Affordable Remote Site Control

The Broadcast Tools **WVRC-8** has all the basic functionality you need to control your site equipment. You can configure its eight optically isolated status channels for 5 to 24vdc wet or dry (contact closures) status monitoring. The eight control channels are equipped with independent SPST one-amp relays for each raise/on and lower/off function.

• Browser-based event function program scheduler and alarm logger
• Select from four email recipients when an out-of-tolerance alarm is generated
•  8 high-resolution analog (telemetry) channels
• Supplied with spoken words and phrases in English, and you can record words and phrases in any language

You can program the  WVRC-8 for dial-up operation via HyperTerminal (for Java applet programming, just use your favorite web browser). The **WVRC-4** is a cost-effective, half-rack 4-channel version with just a few less bells and whistles. See our website for more details.

| | | |
|---|---|---|
| **WVRC8PLUS** | List $1,319.00 | **$1,059.95** |
| **WVRC4** | List    $659.00 | **$559.95** |

## Innovative Problem Solvers for the Broadcast Industry



### Handy Temperature Monitor

The **Temperature Sentinel** is an Ethernet-based temperature monitor  equipped with one SPDT electro-mechanical relay. It can communicate with 4 digital temperature sensors and one optically isolated contact closure input. The **Temperature Sensor** is an optional temperature sensor for WVRC-4, WVRC-8 or VAD-2+, Temperature Sentinel and Site Sentinel 4.

| | | |
|---|---|---|
| **TEMPERATURESENTINEL** | List $239.00 | **$212.95** |
| **TEMPSENSOR** | List    $65.00 | **$53.26** |



### Serial to Internet Interface

The Broadcast Tools ESS-1 is ideal for applications requiring data support for both RS-232 and RS-422 communications. The ESS-1 provides Ethernet connectivity to any device with a serial port, and is ideal for serial tunneling or applications where a COM port, TCP Socket, UDP Socket, or UDP Multicast functionality is needed.

| | | |
|---|---|---|
| **ESS-1** | List $179.00 | **$155**95 |



### Dependable Remote Site Monitors

The Site Sentinel 4 (for use with the Internet) provides an Ethernet port, 4 channels of metering inputs, optically-isolated status (contact closures or external voltages) inputs, normally open dry contact relays, power failure input and a stereo silence sensor input. The Site Sentinel 16 gives you 16 channels of metering inputs.

| | | |
|---|---|---|
| **SITESENTINEL4** | List    $409.00 | **$359.95** |
| **SITESENTINEL16** | List $1,119.00 | **$979.95** |

See the video at bswusa.com/SITESENTINEL



### Easy To Use Serial Remote Control Computer Interface

The Broadcast Tools SRC-16 Plus is a computer interface to the real world. Connecting through an RS-232, RS-422 or RS-485 serial port, it can notify your PC software program if any of 16 optically isolated inputs have been opened or closed, and allows your software to control sixteen SPDT, 1-amp relays. You can communicate with it via short "burst" type ASCII or binary commands from your PC (computer mode). You can also add up to 64 ASCII strings per input and 16 user-defined strings per relay. Half-rack chassis. Optional RA-1 rack shelf.

| | | |
|---|---|---|
| **SRC16-PLUS** | List $459.00 | **$399.95** |

*Accessories:*
| | | |
|---|---|---|
| **RA-1** | Rackmount shelf | **$53.99** |



### Super Smart Relay

This interface provides four independent 2PDT relay and eight optically isolated 5Vdc to 24Vdc wet or dry inputs. It converts sustained network closures to a pulse. User programmable logic and pulse stretching may be set from 50ms to 99 hours, 59 minutes and 59.99 seconds.

| | | |
|---|---|---|
| **SMARTRELAY4** | List $209.00 | **$189**95 |

**Need to see more? We got plenty!**
See our full line of inventory at
**www.bswusa.com/remotecontrol**


ACPOWER-SENTINEL2-PL

### Remote Power Switches with Built-In Web Server

The Broadcast Tools **AC Power Sentinel 2** provides remote power control, remote reboot, or automatic reboot of network devices, and features two power outlets that can be independently controlled using a web browser. It is completely self-contained and includes a built-in web server so no external servers, services, or subscriptions are required. The **AC Power Sentinel 2 Plus** adds remote temperature monitoring, discrete inputs, event scheduling, logging, and email alerts.

| | | |
|---|---|---|
| **ACPOWER-SENTINEL2** | List    $309.00 | **$279.95** |
| **ACPOWER-SENTINEL2-PL** | List    $379.00 | **$311.95** |

See the video at
bswusa.com/PWRSENTINEL