



Tomorrow's Radio Today



STXe-2 and STXe-3 2kW and 3kW FM Transmitter

Key Features & Benefits

- Best in Audio Quality
- Greater than 70% AC to RF Efficiency
- Hot-Pluggable / Front Access Power Supplies
- IP Connectivity with Superior GUI for anytime, anywhere access
- HD Radio® Compatible



The STXe-2 and 3 are the latest in a long line of reliable, efficient, and performance-leading FM transmitters from Broadcast Electronics.

BE STX Line of Transmitters Expands

The Broadcast Electronics STX line of solid-state transmitters continues to expand. Based on the RF technology of the STX 10 and the exciter technology of the STXe and STX LP transmitters, the STXe-2 and 3 provide unparalleled performance and reliability in their class.

Hot-Pluggable / Front Access Power Supply

Unique at this power level, the STXe-2 and 3 include two RF power supply modules that are front accessible and hot-pluggable, providing quick and easy service in the event of a power issue.

Superior Performance

The STXe-2 and 3 are designed to exceed the FM transmitters of the past

- The best in audio quality
- SNMP level 3 control and security
- Full digital operation
- HD compatible

GUI

With IP connectivity at the transmitter site, the STXe-2 and 3 will provide all important transmitter operating conditions and control options from a laptop, tablet, or smartphone. Three levels of security control are available from "view only" to "complete control," ensuring secure access for the correct personnel.



STXe-2 and 3

2kW and 3kW FM Transmitters



SPECIFICATIONS

| RF SPECIFICATIONS | |
|--------------------------------------|--|
| Output Power | See below |
| Efficiency | 70% typical AC to RF (FM Only) |
| Modulation Type | Direct-to-channel digitally generated FM (no analog up-conversion); FM only, HD Radio only, or HD Radio + FM, DRM+ |
| Capabilities | Up to 300 kHz |
| Audio Inputs | AES, L&R analog, composite, SCA/ RBDS/RDS external generator input, SCA audio inputs (2) |
| Asynchronous AM S/N Ratio | Better than -65dB (-70dB Typical) referenced to average peak-to-peak carrier amplitude. 75uSec deemphasis |
| Synchronous AM S/N Ratio | Better than 60dB referenced to average peak-to-peak carrier amplitude. 75kHz deviation @400Hz |
| Spurious and Harmonic | 85dB or better; low pass filter standard |
| AUDIO SPECIFICATIONS | |
| Amplitude Response | Composite/ AES: +/-0.03dB, 30 Hz to 53 kHz; +/- -0.1dB, 53kHz to 100kHz Analog L&R: +/-0.25, 30Hz to 53kHz |
| Total Harmonic Distortion + Noise | Composite: 0.005% or less @400Hz, 10-22kHz bandwidth, 75uSec deemphasis. AES/ Analog L/R Stereo: -0.01 typical @400 Hz, 10-22kHz bandwidth 75uSec deemphasis |
| Composite Intermodulation Distortion | 0.13% SMPTE (60/7000 Hz, 1:1 ratio), DIM-B: 0.008% (14kHz) |
| S/N Ratio | Composite: 85dB below 100% modulation @400 Hz. AES/ Analog L&R Stereo: 80dB below 100% modulation @400Hz. Analog L/R: -70dB, 30Hz to 15kHz |
| Stereo Separation | AES: -74dB below 100% modulation @400Hz. Analog L/R: -70dB, 30Hz to 15kHz |
| MECHANICAL/PHYSICAL | |
| Dimensions | 19"W x 6.97" (4RU) H x 28.33" D (48.3 cm W x 17.7 cm H x 72 cm D) |
| Weight | 58lbs (26.3 kg) |
| RF Output Connector | 7/16 Female DIN |
| ENVIRONMENTAL | |
| Temperature | -10 degrees to +50 degrees C |
| Altitude | 10,000 ft (3,048 M) |
| Humidity | 95% Non-Condensing |
| ELECTRIC | |
| AC Input Voltage | 200-264 VAC, 47-63Hz (Single Phase) |
| Disconnect Size | 30A |
| Cooling Air Requirements | 300 CFM (8.5M3/min) |
| Heat Dissipation | 1500 W at 3 kW RF Output into 50 Ohm load |
| BTU | 5118BTU/H at 3kW RF Output into 50 Ohm load |
| Electrical Consumption | <5kVA |
| Power Factor | >98% |

STXe-2 and STXe-3

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| | STXe-2 | STXe-3 |
|------------------------|-----------|-----------|
| Output Power | | |
| Nominal Power | 2,000 | 3,000 |
| Max Power Rating | 2,200 | 3,300 |
| FM Analog Power Rating | 200-2,200 | 300-3,300 |
| FM+HD -20dBc | 2,000 | 2,700 |
| FM+HD -14dBc | 2,000 | 2,400 |
| FM+HD -10dBc | 1,800 | 1,800 |
| HD Only - 20dBc | 1,100 | 1,100 |
| HD Only - 14dBc | 1,000 | 1,000 |
| HD Only -10dBc | 885 | 885 |

STXe-2 and STXe-3

2kW and 3kW FM Transmitters



Taking the next step is easy with Broadcast Electronics. Contact your sales representative today to discuss solutions that will work for you and your station(s).

To contact your BE sales representative, simply visit our website at bdcast.com or call 217.224.9600 and learn more about what BE has to offer.

BE manufactures complete RF systems for radio and TV. Our products encompass program generation, audio, and data management, interfacility transport and analog and digital Radio and TV transmission.

BE and Elenos Group products are used daily in more than 40,000 installations in nearly 100 countries. For over sixty years, BE pioneering developments have set industry standards for innovation and reliability, while providing broadcasters with new options for operational productivity and income generation.

BE is headquartered in Quincy, Illinois, USA, and is represented worldwide by a network of local representatives.

Telephone (217) 224-9600
4100 North 24th Street
Quincy, Illinois 62305-3606 U.S.A

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