



Tomorrow's Radio Today



STXe 3 3kW FM Transmitter

Key Features & Benefits



The STXe-3 is the latest in a long timeline 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 with the new STX 3kW FM transmitter. Based on the RF technology of the STX 10 and the exciter technology of the STXe and STX LP transmitters, the STX 3 provides unparalleled performance and reliability in its class.

Hot-Pluggable / Front Access Power Supply

Unique at this power level, the STX 3 includes 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

STX 3 is 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 STX 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,"

- Compact Size...only 4RU
- 70% AC to RF Efficiency
- Hot-Pluggable / Front Access Power Supplies
- IP Connectivity with Superior GUI for anytime, anywhere access
- Best in Audio Quality



STXe 3

3kW FM Transmitter



SPECIFICATIONS

RF Specifications

Output Power	750 to ~3000W
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

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SPECIFICATIONS

Environmental

Temperature -10 degrees to +50 degrees C

Altitude 10,000 ft (3,048 M)

Humidity 95% Non-Condensing

Electrical

AC Input Voltage 200-264 VAC, 47-63Hz (Single Phase)

Disconnect Size 40A

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

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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.

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