STXe 5 & 6

Transmitter Series 5 and 6 kW



Typically available for delivery in 2 to 3 weeks!





Genesis Series Modulators / Exciters

The Broadcast Electronics STXe medium-power FM Radio transmitters herald the next step toward reducing capital expenditure and minimizing operating costs for Radio Broadcasters. The transmitter

STX Line of Transmitters Expands

The Broadcast Electronics STX line of solid-state transmitters continues to expand with the new STXe-5 and 6 5 and 6kW FM system. Based on the RF technology of the STX 10 and the exciter technology of the STXe and STX LP transmitters, the STXe-5 provides unparalleled performance and reliability in its class.

Hot-Pluggable / Front Access Power Supply

Unique at this power level, the STXe series includes four RF power supply modules that are front accessible and hot-pluggable. Broadcast Electronics has poured its many years of pioneering experience in state-of-the-art RF modulation technology into the design of the STXe range of transmitters, achieving efficiency values of up to 75%, including the cooling system. The adaptive efficiency optimization feature ensures maximum energy cost savings even after channel changes or output power adjustments.

Key Features & Benefits

- Best in Audio Quality
- Up to 75% AC to RF Efficiency
- Hot-Pluggable /front access power supplies
- IP Connectivity with superior GUI for anytime, anywhere access

Superior Performance

The STXe-5 is designed to exceed the FM transmitters of the past

- The best in audio quality
- SNMP level 3 control and security

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.



Maximum Redundancy

The STXe-5 system is made up of two separate STXe-3 transmitters which provide dual PSUs, power amplifiers, and optional dual modulators ensuring excellent transmitter availability and making sure you stay on-air under extreme circumstances.

▶ itelco

PRO TELEVISION

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SPECIFICATIONS

| RF SPECIFICATIONS | |
|--------------------------------------|--|
| Output Power | 5500W Nominal / 6200W Max |
| Efficiency | 70% typical AC to RF (FM Only) |
| Modulation Type | Direct-to-channel digitally generated FM (no analog up-conversion); FM only |
| 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 de-emphasis |
| 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, 7SuSec 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 |
| MECHANCIAL/PHYSICAL | |
| Dimensions | 19"W x 14" (10RU) H x 28.33" D |
| | (48.3 cm W x 35.4 cm H x 72 cm D) |
| Weight | 150lbs (68 kg) without cabinet |
| RF Output Connector | 1 5/8″ EIA |
| 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, single phase, or 308 VAC three phase, 47-63Hz. |
| Disconnect Size | 80° |
| Cooling Air Requirements | 600 CFM (17M3/min) |
| Heat Dissipation | 3,000 W at 6.2 kW RF Output into 50 Ohm load |
| BTU | 10,236BTU/H at SkW RF Output into 50 Ohm load |





