

Tomorrow's Radio Today



The STX LP1 is a reliable, efficient, and performance-leading FM transmitter from Broadcast Electronics.

Compact, Cost Effective and Robust

The STX LP1 is versatile, ready for both analog FM as well as HD Radio®, yet space saving and amazingly affordable, both in initial purchase price, but also in long term cost of operation with excellent overall efficiency. Being designed, built and supported by Broadcast Electronics in Quincy, IL, the STX LP1 shares the legendary long life that BE products have been known for since 1959.

Performance

- Exciter audio performance has been a hallmark of BE for decades
- The new exciter and controller in the STX LP1 provides audio performance that rivals BE's legendary FX 30, FX 50 and FXi Exciters
- Improved AC to RF efficiency reduces energy costs
- New enhanced GUI provides access to all important transmitter parameters
- SNMP Level 3 Control and Security

Reliability

- Since 1959, BE has provided equipment to radio broadcasters that is designated to last for the long haul
- Designed and manufactured in the USA, the STX LP line of transmitters has been installed in over 1,400 locations since its introduction
- 2nd Generation design includes updates to power supplies and fans, insuring an even longer transmitter life

STX LP1



Flexibility

- The STX LP Generation is designed for the world's digital standards and unique applications
- HD Radio® Capable
- Synchronous FM Systems
- IP Connectivity for complete transmitter status

Redundancy

- Unique Exciter and controller design allows the ability to add an optional second controller/ exciter for full redundancy in the event of an exciter or controller failure
- Ideal for N+1 Systems





Graphical User Interface

GUI

 With IP connectivity at the transmitter site, the STX LP1 provides 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.



STX LP1



Specifications

87.5 MHz to 108 MHz, tuned specific operating frequency porgrammable to 10 kHz steps
+/- 150 Hz, 0° to 50° C
250W to 1100W
Selectable 50 µsec or 75 µsec
50 Ohms
1.5: 1 Maximum
Direct-to-channel digitally generated FM (no analog up-conversion); FM only, HD Radio only, or HD Radio + FM, DRM+
Up to +/-300 kHz
Better than -65dB (-70dB Typical) referenced to average peak-to-peak carrier amplitude. 75uSec de- emphasis
Better than 60dB referenced to average peak-to-peak carrier amplitude. 75kHz deviation @400Hz
85dB or better; assuming low pass filter included (LPF standard in all LP1 transmitters)
Meets all FCC/IC/CE and IEC 215 safety requirements
AES (XLR), L&R analog (XLR), Composite (BNC), SCA/RBDS/RDS external generator input (BNC), SCA audio inputs (2 BNC)
Composite: \pm 0.03dB, 30 Hz to 53 kHz; \pm 0.1dB, 53kHz to 100kHz. AES and Analog: \pm 0.25, 20Hz to 15kHz
Composite: 0.005% or less @400Hz, 10-22kHz bandwidth, 75uSec deemphasis. AES Stereo: 0.01% typical @400Hz, measured 10-22kHz, 75uSec deemphasis; AES Mono: 0.005% or less @400Hz, 10-22kHz bandwidth, 75uSec deemphasis. Analog Stereo: 0.01 typical @400Hz, measured 10-22kHz, 75uSec deemphasis; Analog Mono: 0.008 typical @400Hz, measured 10-22kHz, 75uSec deemphasis
Composite: 0.13% SMPTE (60/7000 Hz, 1:1 ratio), DIM-B:0.008% (14 kHz)
Composite: 85dB below 100 & modulation @400 Hz.AES/ Analog L&R Stereo: 80dB below 100% modulation @400Hz. Analog L/R: -70dB, 30Hz to 15kHz
AES: -74dB below 100% modulation @400Hz. Analog L/R: -70dB, 30Hz to 15kHz
19" W x 6.97" (4RU) H x 28.33" D (48.3 cm W x 17.7 cm H x 72 cm D)
58 lbs (26.3 kg)
7/16 Female DIN
-10° to +50° C
10,000 ft (3048 M)
0-95% non-Condensing
200-265 VAC, 47-63Hz (Single Phase)
30A
200 CFM (8.5M3/min)
<500 W at 1.1 kW RF Output into 50 Ohm load
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 (HD Radio and DRM transmission).

They 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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