

BEXT**XPT Series**50, 100, 250
500 & 1000 WFM Exciters /
Transmitters

- Extremely high audio quality, frequency agile Exciters / Transmitters
- All functions including frequency reassignment can be remotely supervised & controlled by PC via Modem
- PC remote readings and controls via phone line
- Built in programmable FSK ID Keyer
- Available with very high separation, optional built-in Stereo Generator
- Proportional Auto-foldback in the event of excessive VSWR or other malfunctions
- Suitable for remote operation
- 48 V DC Operation option available
- Meets or exceeds all FCC & CCIR requirements

Model Output Power:

XPT 50	50 W
XPT 100	100 W
XPT 250	250 W
XPT 500	500 W
XPT 1000	1000 W

Frequency Range:

87.6 MHz to 107.9 MHz

Frequency Programmability:

By front panel or via remote in 100 Hz or 10 kHz steps

S/N Ratio: mono > 90 dB, stereo > 85 dB (typ. > 90)**Frequency Stability:**Better than ± 1000 Hz / year, PLL Synthesizer**Spurious & Harmonic emissions:**

Meets or exceed all FCC & CCIR requirements

Power Resolution Settings: 1 W**Power Control Stability:** < 0.1 dB**Peak Detector Precision:** < 0.1 dB**Reflected Output Power Limit:** 1 – 9.9 W**Reflected Output Power Steps:** 0.1 W**Pilot Reference for RDS Encoder:** 1 V p-p sine wave**Transmission Protocol:** AES-EBU SP 490**Personal Computer Software:** National LAB-VIEW**Communications Ports:** COM 1 (Front Panel, RS232),
COM2 (Rear Panel, RS232), COM 3 (Rear Panel, RS485)**Readout LCD Display:** 40 x 4 character

Forward Power Resolution: 0.1 W

Reflected Power Resolution: 0.1 W

Modulation Resolution: 1 kHz

Line Voltage Resolution: 1 V

Power Amplifier Voltage Resolution: 1 V

Power Amplifier Current Resolution: 0.1 A

Heat Sink Temperature Resolution: 1°C

Audio Inputs :

Mono (BNC) 600 Ohm bal. or 10 Kohm unbal.

2 SCA' s (BNC) 10 Kohm unbalanced

Composite (BNC) 600 Ohm bal or 10 Kohm unbal.

Stereo (w/ Built-in Stereo Generator option)

AES-EBU Digital Input (Models C only)

All audio levels - 6 to + 12 dBm, adjustable

RF Output Connector/Impedance:

7/8 Flange (1000 W); "N" type female (All others) / 50 ohm

Deviation Linearity: ± 0.2 dB in all frequency ranges**Audio amplitude response:** 0.15dB**Total Harmonic Distortion:** < 0.03%**SCA Distortion:** < 0.1 %**Stereo Separation:** > 55 dB**38 KHz suppression:** >70 dB**Crosstalk:** better than 50 dB**Pre-emphasis:** For FCC 75 μ sec, for CCIR 50 μ sec.**Dimensions:**

50 & 100 W Models: 19 " Rack Standard, 483 mm W x 88 mm H x 500 mm D (two rack spaces high, 20"D)

250 & 500 W Models: 19 " Rack Standard, 483 mm W x 132 mm H x 500 mm D (three rack spaces high, 20"D)

1000 W Models: 19 " Rack Standard, 483 mm W x 176 mm H x 500 mm D (four rack spaces high, 20"D)

Nominal Temperature Range: 0° to 45° C (32° to 113° F)**Weight:**

12 Kg/26.5 lbs (50 W mod.), 15 Kg/33 lbs (100 W mod.),

21 Kg/46 lbs (250 W mod.), 39 Kg/85 lbs (500 W mod.)

50 Kg/110 lbs (1000 W mod.)

Power Requirements:

115-230 V Single Phase +/-10%, <150 VA (50 W mod.),

<225 VA (100 W model), <475 VA (250 W model),

230 V. Single Phase +/- 10% <900 VA (500 W model),

<1600 VA (1000 W model)