



BEXT

**XL 2000
&
XL 3500**

**2.4 kW & 3.6 kW
Ultra Compact
Frequency Agile
Solid State
FM Transmitters**

- A complete FM Transmitter, up to 3600 W (XL 3500) in a lightweight, ultra compact, 4 rack spaces high unit
- All functions including frequency reassignment can be remotely supervised & controlled by PC via Modem
- No proprietary software necessary to connect using any PC: Can be supervised by Microsoft HyperTerminal
- Convenient large LCD Display; frequency & all parameters settable through front panel menu or remotely
- Main parameters available also on rear terminal board for standard remote control
- Proportionate Auto-foldback for uninterrupted operation even in case of excess VSWR, temperature or other alarms
- Include built-in low pass/harmonic filter and meets or exceeds all FCC and CCIR requirements



• **General Specifications**

Rated Output Power: 100-2400 W (XL 2000) or 100-3600 (XL 3500) continuously adjustable, ALC controlled
 RF Output Connector / Impedance: 7/8" EIA Flange / 50 Ohm
 Frequency Range / Programmability: 87.5 MHz to 108 MHz / direct from front panel in 10 KHz steps
 Type of modulation / Freq. stability: FM direct carrier modulation at final frequency / better than ± 100 Hz
 Spurious & Harmonic Suppression: meets or exceeds all FCC and CCIR requirements
 Asynchronous AM S/N Ratio: > 65 dB below ref. carrier w/ 100% amplitude modulation at 400 Hz w/out de-emphasis, no FM modulation present
 Synchronous AM S/N Ratio: > 55 dB below ref. carrier w/ 100% am modulation @ 400 Hz, w/out de-emphasis, FM modulation = ± 75 KHz @ 400 Hz
 Transient Intermodulation Distortion: less than 0.05% measured with a 1 KHz sine wave and a 1.3 KHz sine wave, ratio 1:1, 100% modulation
 AC Power Requirement: 208 - 240 V, 50-60 Hz, single phase or three phase (specify with order)
 Power Consumption, approx.: 4000 W (XL 2000), 5500 W (XL 3500) at full power
 Panel Size / Overall Depth: 483 mm (19") W x 177 mm (7") H (4 rack spaces high) / 533 mm (21") D • Crate size: 35" W x 21" H x 25" D
 Weight: XL 2000: 38 Kg (83 Lbs); XL 3500 40 Kg (88 Lbs) • Crated: XL 2000: 62 Kg (138 lbs); XL 3500: 65 Kg (143lbs)
 Ambient Temperature Range: 0° C to 45° C (32° F to 113° F)
 Pre-emphasis: for FCC 75 microsec, for CCIR 50 microsec

• **Composite Operation**

Composite Input / Level: BNC, 10 KOhm unbalanced / 3.5 V P-P (1.237 V RMS / 4.1 dBm), adjustable - 12 dB / + 12 dB
 Composite FM S/N ratio: >78 dB below ± 75 KHz deviation @ 400Hz meas. in a 30Hz to 100KHz bandwidth w/ 75 microsecond de-emphasis (RMS)
 Composite Amplitude Response: ± 0.8 dB, 30 Hz to 100 KHz
 Composite Total Harmonic Distortion: <0.05%
 Composite Intermodulation Distortion: 0.05% or less, measured with a 1 KHz and a 1.3 KHz tones, 1:1 ratio, at 100% modulation
 Stereo Separation: > 65 dB, typical 72 dB
 Crosstalk: main to stereo subchannel and stereo subchannel to main >55 dB (60 dB typical)
 SCA Inputs / SCA Impedance: 2 unbalanced BNC connectors / 10 Kohm
 SCA Input Levels: 3.5 V P-P (1.237 V RMS / 4.1 dBm) for ± 7.5 KHz deviation
 SCA Amplitude Response: ± 0.8 dB, 40 KHz to 100 KHz
 Crosstalk: 67 KHz SCA to main or to stereo subchannel >65 dB / 92 KHz SCA to main or to stereo subchannel >70 dB

• **Monaural Operation**

Audio Input Impedance: 600 Ohm balanced or unbalanced; 50 dB common mode suppression
 Audio Input Level: 0 dBm (775 mV RMS/2.2 V P-P) for ± 75 KHz, adjustable
 FM S/N Ratio: >70 dB below ± 75 KHz deviation @ 400Hz meas. in a 30Hz to 20KHz bandwidth w/ 75 microsecond de-emphasis (RMS)
 Audio Frequency Response: ± 0.8 dB, 30 Hz to 15 KHz
 Total Harmonic Distortion: < 0.1% (0.05% typical)
 Intermodulation Distortion: 0.05% or less, measured with 1 KHz & 1.3 KHz tones, 1:1 ratio, at 100% modulation