

- 100, 150, 300, 500 and 700 W in highly efficient, lightweight, compact size cabinets
- Fast access to all readings & settings via front panel display and via optional LAN or WEB connection
- Telemetry Readings & Remote Control via standard connections and via optional webpage
- Instant frequency programmability directly from front panel setting
- Proportional Auto-Foldback of output power in the event of excessive VSWR
- Main parameters available also on rear DB 25 port for remote control
- Automatic power control maintaining the output at any pre-set level
- Available with optional built-in stereo generator
- Modular layout with plug-in, easily replaceable circuits and parts
- Can operate on 120 V AC or 208/240 V AC single phase
- Meets or exceeds all FCC and CCIR requirements
- Includes low pass/harmonic filter and can be used as a stand-alone transmitter

General

Rated Output Power (APC controlled): RF Output Connector: RF Output Impedance: Frequency Range: Frequency Programmability: Frequency Stability: Modulation Type: Spurious & Harmonic Suppression: Asynchronous AM S/N Ratio: Synchronous AM S/N Ratio:	0-100W (XT100), 0-150W (XT150), 0-300 W (XT300), 0-500 W (XT500), 0-700 W (XT700), adjustable "N" type female 50 ohm 87.5 MHz to 108 MHz direct from front panel in 10 kHz increments better than ±500 Hz direct carrier frequency modulation meets or exceeds all FCC and CCIR requirements 70 dB below reference carrier with 100% amplitude modulation at 400 Hz without de-emphasis, no FM modulation present 55 dB or better below reference carrier with 100% amplitude modulation at 400 Hz without de-emphasis. FM modulation = ±75 kHz at 400 Hz
Transient Intermodulation Distortion:	less than 0.1% measured with a 3.18 kHz square wave and a 15 kHz sine wave at 100% modulation (typical 0.05%)
AC Power Requirement: AC Power Consumption (approx): RF Monitor Port	120 of 208/240 V, 50 of 60 Hz, single phase. 200 W (XT 100), 290 W (XT 150), 575 W (XT 300), 950 W (XT 500), 1300 W (XT 700) BNC, -30 dB level
Panel Size:	483 mm (19") W x 88 mm (3.5") H (2 standard rack spaces high)
Approximate Weight: Ambient Temperature Range:	XT100: 16Lbs (7Kg); XT150: 18 Lbs (8 Kg); XT300: 20 Lbs (9 Kg); XT500: 25 Lbs (11 Kg); XT700: 28 Lbs (13 Kg) -10° to 50° C (14° to 122° F)
Pre-emphasis:	for FCC 75 µsec; for CCIR 50 µsec; or flat for Stereo, all user selectable
Composite Operation	
MPX Input: Stereo L + R Channel inputs MPX Input Level: Composite FM S/N ratio:	BNC and XLR connectors (selectable, w/ selectable impedance 10kohm - 600 ohm) XLR w/ selectable impedance (for units with built-in stereo generator) adjustable from - 13 to + 13 dBm, normally set to 3.5 Vp-p (1.237 Vrms / 4.1 dBm) >80 dB below ±75 kHz deviation at 400 Hz measured in a 30 Hz to 100 kHz bandwidth with 75 usec de-emphasis (PMS)
Composite Amplitude Response: Composite Total Harmonic Distortion: Composite Intermodulation Distortion:	±0.5 dB, 20 Hz to 53 kHz; ±0.2dB, 53kHz to 100kHz <0.05% <0.05%, measured with a 1 kHz and a 1.3 kHz tone, 1:1 ratio, at 100% modulation
Stereo Separation: Crosstalk:	>50 dB (60 dB typical) main to stereo subchannel and stereo subchannel to main >55 dB (60 dB typical)
SCA & RDS Input Impedance:	10k ohm
SCA & RDS Input Levels:	- 20 dBm to +10 dBm, adjustable +0.2 dB, 40 kHz to 100 kHz
Crosstalk: 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: Audio Input Level: FM S/N Ratio:	BNC w/ selectable impedance 10kohm - 600 ohm adjustable from - 13 to + 13 dBm, normally set to 3.5 Vp-p (1.237 Vrms / 4.1 dBm) >80 dB below ±75 kHz, deviation at 400 Hz measured in a 20 Hz to 20 kHz bandwidth with 75 µsec de-emphasis (RMS)
Audio Frequency Response: Total Harmonic Distortion: Intermodulation Distortion:	±0.5 dB, 30 Hz to 15 kHz <0.05% or better 0.02% or less, measured with a 1 kHz & a 1.3 kHz tone 1.1 ratio at 100% modulation
Other Connectors	RF Monitor: BNC • Remote control: DB25 • Optional LAN/WEB connection: RJ45

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