



FMX101+ 100W FM TRANSMITTER



The FMX101+ is a solid state 100W FM transmitter designed for FM broadcast service.

The heart of the FMX101+ is a microprocessor controlled, low phase noise, phase locked loop. This gives excellent audio performance whilst allowing total carrier frequency flexibility.

The signal from the PLL is amplified up to in excess of 100W by a broadband MOSFET stage. One advantage of this technique is a high level of tolerance to reflected power.

For maximum value for money, the FMX101+ comes complete with a stereo generator as standard.

The audio input processors incorporate Bessel anti-alias filters as well as peak limiters.

Extensive telemetry functions allow all parameters to be read or programmed remotely, as well as allowing the front panel to be locked for non-secure locations.

Over line voltage, over SWR and over temperature protection are all standard.

Each FMX101+ comes complete with extensive documentation covering installation, use, maintenance and trouble shooting.

The FMX101+ is designed and manufactured in Australia and comes with a 3 year warranty.

SPECIFICATIONS

Output power	>100W continuous
Carrier frequency	87.5 to 108.0 MHz
Channel spacing	100 KHz
Carrier stability	<200Hz from nominal
Modulation	Stereo FM 75KHz peak deviation
Audio response	10Hz to 15KHz
Pre-emphasis	50uS
Distortion	<0.1%
Audio SNR	80dB typical
Stereo separation	>50dB
Line voltage	90-264VAC
Line power	<250VA
Audio input level	-10dBm to +10dBm
Input impedance	10K balanced
Protection	Over temperature Over line voltage Over SWR
Dimensions	Width 482mm Depth 270mm Height 88mm (2RU)
Weight (approx)	<8Kg
Cooling	Forced air
Audio connector	XLR female
Input line connector	IEC male
Output RF connector	N female
Telemetry connector	DB9 female