



850MHz 5W STL TX/RX PAIR



The 850MHz STL Transmitter and Receiver pair are designed for audio transmission of both baseband and MPX signals.

Both units are fully frequency agile and can be set to any valid channel frequency in the STL 850MHz band. They also both include selectable pre/de-emphasis and 15KHz low pass filters.

The transmitter is rated at 5W and the receiver has an RF sensitivity of better than 3uV.

Low loss cavity filters, as well the use of direct PLL carrier generation ensure that these units will not interfere with adjacent services.

RS232 telemetry for remote operation is included.

The receiver has adjustable squelch muting as well as a squelch relay for main transmitter control or backup audio selection.

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

Each STL pair comes complete with extensive documentation covering installation, use, maintenance and trouble shooting.

The STL pair is designed and manufactured in Australia and comes with a 3 year warranty.

SPECIFICATIONS

TX Output power	>5W continuous
Out of band spurious	<-70dBc
RX Input sensitivity	<3uV
Carrier frequency	845 to 852 MHz
Channel spacing	100 KHz
Carrier stability	<200Hz from nominal
Modulation	FM 100KHz peak deviation
Audio response	10Hz to 100KHz
Low pass filter	Bessell, 8 pole, 15KHz
Pre-emphasis	75uS, 50uS or none
Distortion	<0.05%
Audio SNR	75dB typical
Stereo separation	>40dB
Line voltage	240VAC +/-20%
RX Line power	<50VA
TX line power	<50VA
Audio input level	-10dBm to +10dBm
Input impedance	10K or 600R, balanced
Protection	Over temperature Over line voltage Over SWR
Dimensions (each)	Width 500mm Depth 250mm Height 90mm
Weight (each approx)	<8Kg
Cooling	Convection
TX Audio connector	XLR female
RX Audio connector	XLR male
Input line connector	IEC male
RF connector	N female
Telemetry connector	DB9 female