



## STL Series

Studio to Transmitter Link / Inter-city Relay

The FM STL Series providing a high quality broadcast audio channel with variety optional bands.

- Fully Digital with LCD Control.
- AES/EBU Digital Audio Input.\*
- VHF/UHF or other frequency on demand.

\*=Option



General Specifications for Transmitter	
Frequency Range	VHF / UHF or other frequency on demand
Modulation	FM
Frequency Steps	10 kHz
Frequency Error	<200 Hz
Frequency Drift in operating temperature	<250 Hz <100Hz/year
RF Output Power	13W
RF Harmonics	<-60 dBC, -80 dBC typ.
RF Spurious	<-70 dBC, -80 dBC typ.
Antenna Connector	N / 50 ohm
Audio/ MPX Input Level	-6 to +9dBm @ ± 75 kHz deviation
Audio/ MPX Input Impedance	10kohm balanced 600ohm unbalanced
Common Mode Input	>50 dB, >60dB tip. (20~15000 Hz)
Audio Input Connectors	XLR female
AES/EBU Input Connector	XLR female
AUX/MPX Input Level	-12.5 ~ +3.5dBm @±7.5 kHz dev.
AUX Input Impedance	10k ohm
MPX/AUX Input Connectors	BNC
Pre-emphasis Time Constant	0/25/50/75 μs ±2%
S/N Ratio (30~20000Hz rms)	>70 dB, 76 typ. Mono >66 dB, 72 typ. Stereo
Modulation Distortion	<0.05% 0.02% tip. @ 75 kHz dev. <0.2% 0.05% tip. @ 150 kHz dev. (limiter threshold>150 kHz)
Stereo Separation	>50 dB (100÷5000 Hz) >45 dB (30÷15000 Hz)
Audio Channels Pass Band	30 Hz to 15 kHz ±0.1dB
Additional Demodulated Output at Wide Band	15 Hz to 120 kHz +0.1/-3dB
Deviation Limiter	Adjustable between. 0 to +7 dB
MPX input Frequency Response	10 Hz to 100kHz ±0.1dB
Aux Input Frequency Response	10 to 100 kHz ±0.2dB

Meets or exceeds all FCC/CE requirements

General Specifications for Receiver	
Sensitivity	-98dBm at 16 dB SINDA ±160 KHz at -3 dB IF BW ±500 KHz at -62 dB IF BW
Frequency response	20 Hz to 53 KHz ±0.1 dB
Stereo separation	20 Hz to 15 KHz >58 dB
S/N Ratio	>65 dB @-40dBm, 75 KHz dev. and 1 KHz mod.
Total harmonic distortion	20 Hz to 53 KHz <0.3%
Image rejection	>65 dB
Stereo audio output impedance	600Ω balanced
Stereo audio output connector	XLR-M
MPX output impedance	10KΩ
MPX output connector	BNC-F
Monitor output	2x0.2 W stereo at 120Ω
Monitor output connector	6.3mm stereo phone jack
RF input impedance	50Ω
RF input connector	N Type -female

Environmental Specifications	
Mains Supply Requirements	85~264VAC or 120~370VDC Full range universal input
Operating Temperature Range	0~35°C recommended. -10~45 °C max.
Total Dimensions	90 x 482 x 43 mm (H x W x L) Rack std. 19" 2U
Weight	Transmitter: 6.5Kg Receiver: 5Kg

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