



## STL FM Link

### MAIN CHARACTERISTICS:

- Rack 19" 2U (TX)-1U (RX)
- 90-250Vac 50/60Hz Power Supply or 24V battery
- Indication of the main parameters on LCD display
- Alarm Thresholds for FWD Power, REF Power and Temperature (TX only)
- Power Supply Input on IEC box with double fuse on the check
- RF Input (RX)/Output (TX) with N connector on the rear panel
- MPX Input (TX)/Output(RX) with BNC connector on the rear panel
- Audio Input (TX)/Output(RX) with XLR connector on the rear panel
- Level adjustment (MPX, Audio, SCA) with multi-turn trimmer on rear panel (TX only)
- Multifunction Display with five buttons
- Remote Control by wired or serial (RS232 or RS485) connection
- Headphones output (RX only)

The new series of FM links achieves the goal of uniting the good-quality technical specifications and the modern design with a limited price. All this is possible thanks to the SMD technology used to produce the boards, as well as the design of all the sections with the newest and well-proven technologies allowing to grant uninterrupted functioning without problems, high selectivity and immunity to adjacent channels in the receiver and a higher audio quality. All input/output connectors are mounted on the boards and all connections between boards are made by means of point-to-point multipolar connectors strongly reducing wiring and making the device

reliable and easy to maintain and repair.

The power supply source is wide input range (90-250Vac) switching that is automatically switched to a 24V external battery to ensure continued functioning even in absence of power supplying. The user interface is 16Cx2R alphanumeric display allowing to monitor and change frequency, forward and reflected power (TX only), temperature (TX only), alarms level, modulation level, battery voltage and remote enable.

All functions are remotely controllable by means of an RS232 or RS485 (internally selectable) interface, while a telemetry port allows to manage some fundamental functions.

▼ STL Rear panel (RX)



▲ STL Rear panel (TX)



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# Technical characteristics

### RF SECTION (TX)

Frequency Range	200-900MHz in bands
Output Power	20W
Output Power Control	Software with PWM
RF Output Impedance	50
RF Output Connector	N Female

### RF SECTION (RX)

Frequency Range	200-900 MHz in bands
Sensitivity	-90 dB @32 dB Sinad
A.F.C.	Software
RSSI	80 dB linear scale with muting
RF Input Impedance	50
RF Input Connector	N Female
Input Filter	Bandpass 4°order 20 MHz BW

### AUDIO SECTION

Input/Output	XLR Balanced 600 /10k (Mono, stereo, L/R) BNC unbalanced 10k (MPX)
Level	2.2 Vpp adjustable
Emphasis	Flat, 50µs, 75µs
Low pass filter	15 kHz
Limiter	nom + 1dB
Frequency response	≤ 0,5 dB
THD	≤ 0,5 %

### LOCAL OSCILLATOR

Frequency	200-900 MHz in bands with 20 MHz tuning BW
Frequency stability	2.5 ppm
S/N FM CCIR	≥ 60 dB Weighted / Unweighted
Syntesis	PLL with locking voltage indication

### GENERAL

Power Supply	90-250V <sub>AC</sub> , 50/60Hz or 24V battery
Cabinet	Rack 19" 1U (RX) - 2U (TX)
Weight	5kg (1U), 9kg (2U)
Ambient Temperature	-5°C to +45°C
Humidity	20% - 90%
Remote Control	Wired and RS232 or Rs485

*Specifications and characteristics are subject to change without notice Rev.1/3.10*



ELETTRONIKA Srl  
SS 96 km 113 Z.I.  
70027 PALO DEL COLLE (BA) ITALY  
Tel. +39.080.626755 (PBX)  
+39.335.5824900  
Fax +39.080.629262  
elettronika@elettronika.it  
www.elettronika.it