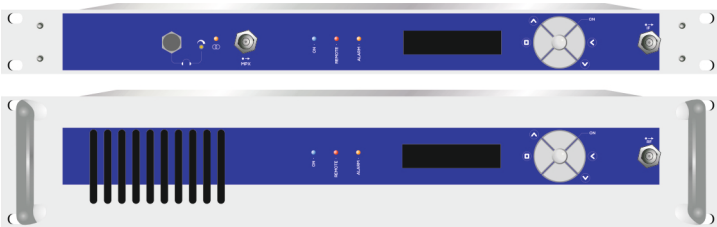




STL

FM Microwave Links



The new series of **STL 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) ▲

Main characteristics

- Rack 19" 2U (Tx) / 1U (Rx)
- 90 - 250VAC 50/60Hz Power Supply or 24Vdc battery
- Indication of the main parameters on LCD display
- Alarm thresholds for FWD and REF powers and Temperature (Tx only)
- Power Supply input on IEC box with double fuse on the chack
- 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)

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Technical characteristics

RF SECTION (Tx)

Frequency Range / Output Power
Output Power Control
RF Output Connector
RF Output Impedance

200 - 900MHz in bands / 20W, 1.3 - 2.4GHz in bands / 5W
Software with PWM
N Female
50 Ohm

RF SECTION (Rx)

Frequency Range
Sensitivity
A.F.C.
RSSI
RF Input Connector
RF Input Impedance
Input Filter

200 - 900MHz in bands, 1.3 - 2.4GHz in bands
-90dB@32dB Sinad
Software
80dB linear scale with muting
N Female
50 Ohm
Bandpass 4° oder 20MHz BW

AUDIO SECTION

Input / Output

XLR Balanced 600 Ohm/10kOhm (Mono, Stereo, L/R)
BNC Unbalanced 10kOhm (MPX)

Level
Emphasis
Low Pass Filter
Limiter
Frequency Response
T.H.D.

2.2Vpp adjustable
Flat, 50us, 75us
 $\Delta_{nom} +1dB$
 $\leq 0.5dB$
 $\leq 0.5\%$

LOCAL OSCILLATOR

Frequency
Frequency Stability
S/N FM CCIR
Synthesis

200 - 900MHz, 1.3 - 2.4GHz in bands with 20MHz tuning BW
2.5ppm
 $\geq 60dB$ weighted / unweighted
PLL with locking voltage indication

GENERAL

Power Supply Voltage
Remote Control
Cabinet
Weight
Ambiente Temperature
Humidity

90 - 250VAC 50/60Hz or +24Vdc battery
Wired and RS232 or RS485
Rack 19" -1U (Rx) / 2U (Tx)
5kg (Rx) / 9kg (Tx)
-5°C to +45°C
20% - 90%

Specifications and characteristics are subject to change without notice