



MOBILE STL FM Links

MAIN CHARACTERISTICS:

- Mobile Cabinet 270x270x100mm (TX)
Rack 19" 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)
- 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)
- High/Low tone control (TX only)
- Two microphone inputs with Phantom
power supply
- Multifunction Display with five buttons
- Remote Control by wired or serial
(RS232 or RS485) connection (RX only)
- 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 on RX only, while a telemetry port allows to manage some fundamental functions.

RF SECTION (TX)

Frequency Range	200-260MHz
Output Power	50W
Output Power Control	Software with PWM
RF Output Impedance	50
RF Output Connector	N Female

RF SECTION (RX)

Frequency Range	200-260MHz
Sensitivity	-90 dB @32dB Sinad
A.F.C.	Software
RSSI	80dB linear scale with muting
RF Input Impedance	50
RF Input Connector	N Female
Input Filter	Bandpass 4°order 20MHz BW

AUDIO SECTION

Input/Output	XLR Balanced 600 10k (Mono, stereo, L/R) BNC unbalanced 10k (MPX)
Level	2.2Vpp adjustable
Emphasis	Flat, 50 s, 75 s
Low pass filter	15kHz
Limiter	nom + 1dB
Frequency response	≤ 0.5dB
THD	≤ 0.5 %

LOCAL OSCILLATOR

Frequency	200-260MHz with 20MHz tuning BW
Frequency stability	2.5ppm
S/N FM CCIR	≥ 60dB Weighted / Unweighted
Syntesis	PLL with locking voltage indication

GENERAL

Power Supply	90-250V _{AC} , 50/60Hz or 24V battery
Cabinet	Mobile 270x270x100mm (TX) - Rack 19" 1U (RX)
Weight	5kg (TX and RX)
Ambient Temperature	-5°C to +45°C
Humidity	20% - 90%
Remote Control	Wired and RS232 or RS485 (RX only)

Specifications and characteristics are subject to change without notice Rev2/7.10