



# MOBILE STL

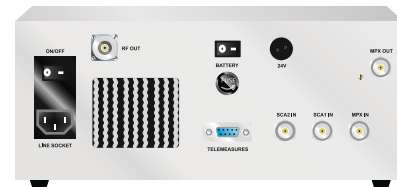
## FM Microwave Links



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 +24Vdc 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..

MOBILE STL Rear panel (Tx)



STL Rear panel (Rx)

### Main characteristics

- Mobile Cabinet 270x270x100mm (Tx), Rack 19" 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)
- 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 adj (MPX, Audio, SCA) with multiturn 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)

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## Technical characteristics

### RF SECTION (Tx)

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

### RF SECTION (Rx)

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

### AUDIO SECTION

Input / Output	XLR Balanced 600 Ohm/10kOhm (Mono, Stereo, L/R) BNC Unbalanced 10kOhm (MPX)
Level	2.2Vpp adjustable
Emphasis	Flat, 50us, 75us
Low Pass Filter	15kHz
Limiter	$\Delta_{nom} +1dB$
Frequency Response	$\leq 0.5dB$
T.H.D.	$\leq 0.5\%$

### LOCAL OSCILLATOR

Frequency	200 - 260MHz with 20MHz tuning BW
Frequency Stability	2.5ppm
S/N FM CCIR	$\geq 60dB$ weighted / unweighted
Synstesis	PLL with locking voltage indication

### GENERAL

Power Supply Voltage	90 - 250VAC 50/60Hz or +24Vdc battery
Remote Control	Wired and RS232 or RS485
Cabinet	Mobile 270x270x100mm (Tx), Rack 19"-1U (Rx)
Weight	5kg (Tx and Rx)
Ambiente Temperature	-5°C to +45°C
Humidity	20% - 90%

Specifications and characteristics are subject to change without notice