

MOBILE MICROWAVE LINK – 1,5 to 15 GHz

A COMPLETE RANGE OF PORTABLE SYNTHESIZED MICROWAVE LINKS FOR VIDEO, AUDIO AND DATA TRANSMISSION

Front panel



Rear panel



Features:

- Available from 1,5 to 15 GHz
- 16 pre-tuned RF channels, userselectable
- Power Supply: from AC mains or from DC (battery)
- Power levels from 100 mW to 1 Watt
- Capacity: ASI IN/OUT Outdoor RF unit fully weather resistant
- Full broadcast quality
- Comprehensive range of antennas and mechanical accessories



Ponte portatile



Mobile Microwave LINK



www.tem-italy.it

Technical Specification

Main Power

Standard Primary Power \approx 230 VAC \pm 15% 50 Hz \pm 2 Hz 115 VAC \pm 15% 60 Hz \pm 3 Hz

Battery Power

Standard Battery Power \approx 24 VDC (20 to 28 VDC)

Optional Battery Power (special order) \approx 48 VDC (36 to 75 VDC)

Digital Input/Output Interface

Base Band Interface: comply with (CCITT G.703)

Impedance \approx 75 Ω (unbalanced)

Line Code - \approx HDB3

Bit Rate - \approx 2-8-34 Mbit/s

Mpeg Transport Stream Interface (EN50083-9)

1 to 32 Mbit/S payload TS

ASI Input

1 x BNC 75 ohm

Return loss $>$ 15dB (from 5 to 270MHz)

Automatic cable adaptation

ASI Output

2 x BNC 75 ohm

800 mVpp

70 MHz IF MODULATION

Type of Modulation \approx QPSK (Offset)

70 MHz IF Carrier Frequency Drift \approx \pm 20 PPM

Nominal IF Output Level \approx + 5 dBm

RF

General

Operating Frequency Bands \approx 1.5 GHz to 24 GHz

RF Connector System 1.5 to 10 GHz \approx type "N" or waveguide

RF Connector system: higher than 10 GHz \approx waveguide

Remote RF HEAD - Transmitter

Standard RF Output Power \approx +20 dBm \pm 2 dB (100 mW) +30 dBm \pm 2 dB (1 W)

Frequency drift within the rated operating temperature range \approx \pm 10 PPM

Spurious Suppression \approx \pm 60 dB

Nominal 70 MHz IF Input Level \approx + 5 dBm (- 10 to + 5 dBm)

Remote RF HEAD - Receiver:

Noise Factor \approx \pm 5 dB

Input Return Loss \approx \pm 20 dB

Nominal Input Level \approx - 40 dBm

Maximum Input Level \approx - 20 dBm

Frequency Drift within the rated operating Temperature Range \approx \pm 10 ppm

RF Alarm Threshold Factory Setting \approx RF signal for output "BER" = 1×10^{-3}

Image Rejection \approx \pm 65 dB

Nominal IF Gain (RF Head) \approx + 40 dB

Mechanical Dimensions and Weight

Remote RF Head (Weatherproof Aluminium Alloy Case) \approx L = 260 W = 210 H = 130 mm Weight 4 kg

IF Mod/Dem Unit (19" Standard Chassis - one unit) \approx L = 335 W = 483 H = 44 mm Weight 5 kg

