

DIGITAL MOBILE RADIO LINKS

Multi-channel Microwave Radio Link systems planned to be utilised in mobile connection either digital or analogue in frequency band 2 ÷ 23 GHz. The system, in the unidirectional configuration, is composed by an indoor unit (IDU) and one outdoor unit (ODU) connected each other by a coaxial cable at 75 ohm with N type connectors (LEMO as optional) and by tripods, antennas and accessories that completed the system. Particularly innovative is the possibility to select either digital modulations in single carrier (QPSK up to 256 QAM) or multi carrier (COFDM) and thanks to MODEM and CODEC function (presents in the board) permits the realisation of full-duplex systems using only an IDU section in mo-demodulation configuration connected to the ODUs TX and RX positioned on each side of the radio link connection.

Features

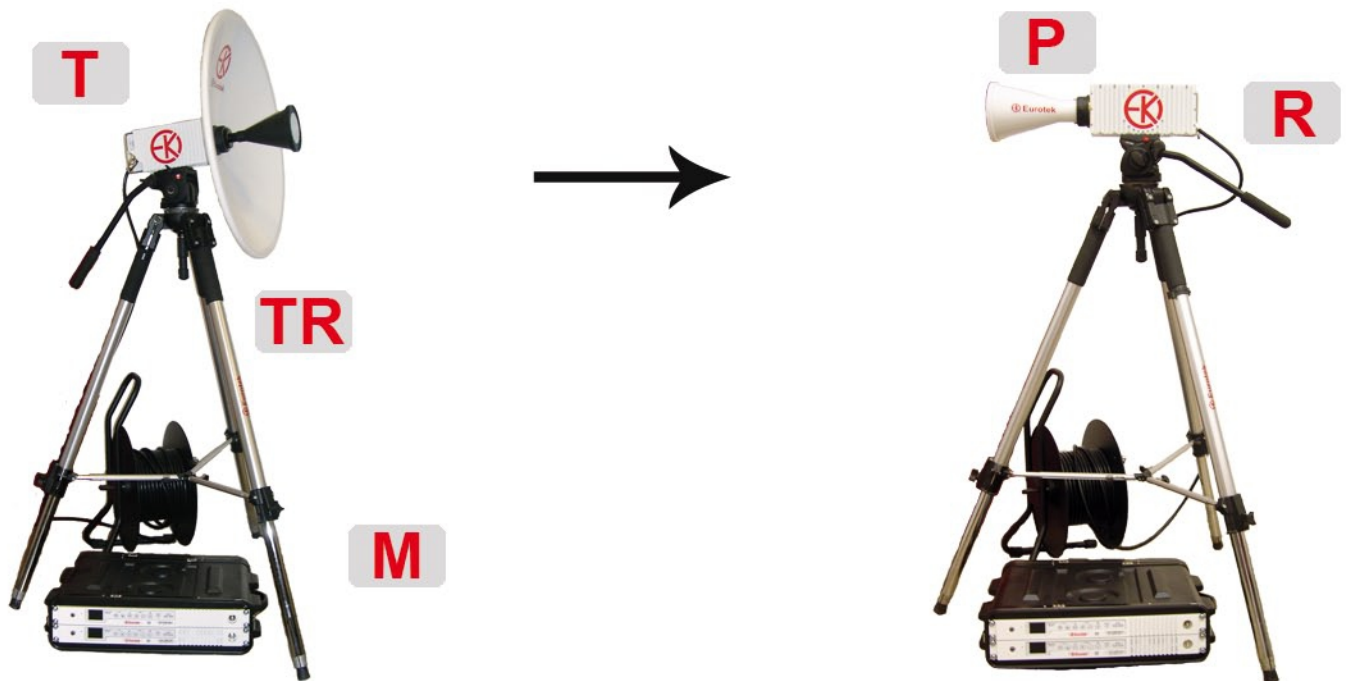
- Unidirectional, Bidirectional, 1+1 configuration
- Available from 2 to 23 GHz
- Fixed or Multi-channel ODU
- Modulation: QPSK - 16/32/64/128/256 QAM or COFDM
- DVB-ASI or E3 in / out
- IF 70MHz in / out
- DVB-S / DVB-T
- 6/7/8MHz Channel Bandwidth
- Viterbi rate
- Reed Solomon
- Very good MER
- NTSC/PAL Compliant
- HD / SD MPEG-4 4:2:0
- SD MPEG-2 4:2:2 / 4:2:0
- Analogue, AES-EBU or SDI Embedded audio
- MPEG-1 layer 1/2 audio coding
- Mux/Demux embedded for multiple A/V
- TFT front panel control
- Embedded Linux OS
- Complete web Management



ALL4DIGIT
SYSTEM

DVB
Digital Video
Broadcasting

TYPICAL CONFIGURATION



AVAILABLE INPUTS

- ASI
- SDI
- ETH
- AUDIO
- AES/EBU
- VIDEO

AVAILABLE OUTPUTS

- ASI
- SDI
- ETH
- AUDIO
- AES/EBU
- VIDEO

DESCRIPTION

T: TRANSMITTER OUTDOOR UNIT

R: RECEIVER OUTDOOR UNIT

P: HORN OR PARABOLIC REFLECTOR

TR: TRIPODS

M: INDOOR UNITS

TECHNICAL SPECIFICATION

Link section performances (-40 dBm at receiver input)

Frequency band	2,3 ÷ 2,7 GHz / 5,2 ÷ 5,5 GHz / 6,4 ÷ 7,2 GHz 6,8 ÷ 7,4 GHz / 7 ÷ 8 GHz / 8 ÷ 8,5 GHz / 10 ÷ 10,7 GHz 11,7 ÷ 12,5 GHz / 12,7 ÷ 13,3 GHz / 14,25 ÷ 14,5 GHz 17,7 ÷ 19,7 GHz / 21.2 ÷ 23,6 GHz
Output power	+ 27 dBm with QPSK modulation (10÷14,5GHz BANDS) + 24 dBm with QAM modulations (10÷14,5GHz BANDS) + 32 dBm with QPSK modulation (2GHz BAND) + 29 dBm with QAM modulations (2GHz BAND) + 24 dBm with QPSK modulation (23GHz BAND) + 21 dBm with QAM modulations (23GHz BAND) + 30 dBm with QPSK modulation (5/7/8GHz BAND) + 27 dBm with QAM modulations (5/7/8GHz BAND)
Noise configuration	better then 6 dB at – 40 dBm
FI band	60÷80 MHz +/- 0,5 dB 62÷78 MHz within 3 nS
Output interface	“N” female connector (2GHz BAND) “N” female connector or waveguide flange PDR70 (WR137) (5/6/7GHz BANDS) waveguide flange PDR84 (WR112)(8GHz BAND) waveguide flange UBR120 (WR75)(10/12/13/14GHz BANDS) waveguide flange PBR220 (WR42)(18/23GHz BAND)
Input interface	BNC type female connector

Working climatic conditions

Normal	-20° ÷ +40°Celsius (ODU) +5° ÷ +40°Celsius (IDU)
Extreme	-30° ÷ +50 Celsius (ODU) -5° ÷ +45°Celsius (IDU)

Heads mechanical specifications

Diameter	110 mm
Depth	300 mm
weight	2 Kg

AVAILABLE OPTIONS

- **IDU Carry Case**



- **Professional Tripod**



- **Bracket for Bi-directional link or for 1+1 configuration**



- **System Flight Case**



- **Tripod Bag**



- **Rolls**

