

# DVB-T/H 2-WAY RECEIVER

DML-RT111



The RT111 receiver allows to receive 2 signals from a diversity receiving system, thus making possible a robust demodulation even at low SNR values.

This receiver can be used in microwave radio point-to-point or multipoint links, for example in combination with DVB-T transmitter TT141.

## TECHNICAL SPECIFICATIONS\*

\*specifications may be changed in accordance with the technical department

### DEMODULATOR

RF input frequency	2500 ÷ 2700 MHz
Number of inputs	2
Sensitivity	typ. -99 dBm
Demodulation	DVB-T COFDM compliant with ETSI EN 300 744
Channel bandwidth	7 MHz, 8 MHz
Carriers	2048 (2k mode), 8192 (8k mode)
Constellation	QPSK, 16QAM, 64QAM
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/4, 1/8, 1/16, 1/32

### VIDEO DECODING

Video output	2 CVBS 1 SDI 1 ASI (1 Vpp, BNC, 75 Ω)
Standard	PAL-BGH, PAL-I, PAL-D, PAL-N, NTSC 4.43, Comb PAL-N, NTSC-N, SECAM-DKL, SECAM-BG, NTSC-M @ 60 Hz, PAL 4.43 @ 60 Hz, NTSC 4.43 @ 60 Hz, PAL-M @ 60 Hz, NTSC-J @ 60 Hz MPEG-2 (ISO/IEC 13818-2) MP@ML, MP@LL, SP@ML MPEG-1 Bitstream (ISO-11172-2) decoder DVB compliant
Decoding	4:2:2 -> 4:2:0 for DAC video processor
Conversion	Syntax Checker, Concealment Vectors
Error correction	Up to 720 x 576

### AUDIO DECODING

Audio output	4 analog (0 dBm, XLR, 600Ω balanced)
Sampling rate	16/22.05/24/32/44.1/48 kHz
Decoding	MPEG-1 (ISO/IEC 11172-3) Layer 1/2
Oversampling	384 fs / 256 fs

### GENERAL

Local control	Rotary encoder and display
Remote control	RS232, HTTP or SNMP
Power supply	100 ÷ 240 Vac or 48 Vdc
Power consumption	20 W typ.
Operating temperature	-10 ÷ +45 °C
Storage temperature	-20 ÷ +80 °C
Storage relative humidity	10% ÷ 80%
Dimensions	Rack 19" 1U (483 x 45 x 435 mm)
Protection degree	IP50