

# DVB-T/H MODULATOR

MDLT-DVBTH



The digital DVB-T/H modulator is the ideal solution for those who requires high performances in high multipath environments, typically urban or metropolitan. The COFDM modulation (Coded Orthogonal Frequency Division Multiplexing) makes it possible to transmit digital signals at high bitrates even in harsh environments, where the intersymbol interference (ISI) due to multiple reflections is consistent. The modulator foresees 4 ASI inputs, through which it is possible to modulate 2 flows according to the hierarchical mode: one HP (High Priority) and one LP (Low Priority).

## TECHNICAL SPECIFICATIONS\*

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

### MODULATOR

Input signal	4x ASI continuous modes, compliant with EN50083-9 (1 V <sub>pp</sub> , BNC, 75 Ω)
Output frequency	36 MHz (20 ÷ 200 MHz others on request)
Output level	typ. -10 dBm (0 dBm others on request)
MER	> 48 dB
Modulation	DVB-T/H COFDM compliant with ETSI EN 300 744 v1.5.1
Channel bandwidth	7 MHz, 8 MHz
Carriers	2k mode, 4k mode, 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

### GENERAL

Local control	Rotary encoder and display on front panel
Remote control	RS232, HTTP
Power supply	110 ÷ 240 Vac
Power consumption	25 W typ.
Operating temperature	-10 ÷ +45 °C
Storage temperature	-20 ÷ +80 °C
Storage relative humidity	10% ÷ 80%
Dimensions	Rack 19" 1U (483 × 45 × 435 mm)
Protection degree	IP50