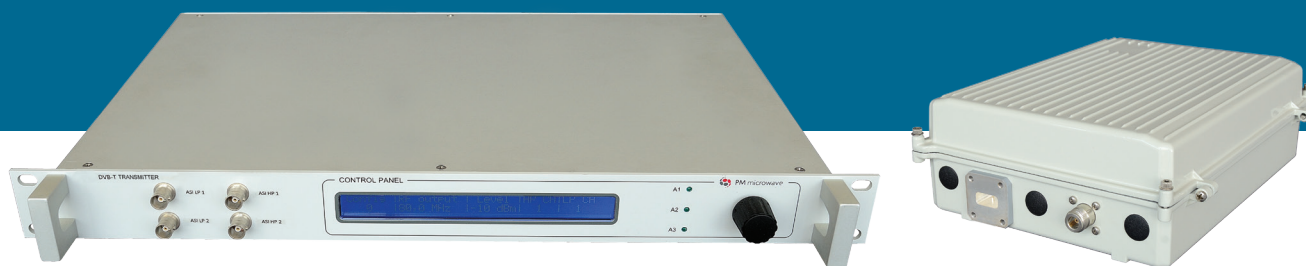


# DVB-T 1W TRANSMITTER

**DML-TT141**


The TT141 model consists of a DVB-T modulator in a 19" 1U rack that can be connected to an external up converter unit. The modulator foresees 4 ASI inputs, through which it is possible to modulate 2 flows according to hierarchical mode: one HP (High Priority) and one LP (Low Priority). The TT141 transmitter is typically used for broadcast applications in both MFNs (Multi Frequency Networks) and SFNs (Single Frequency Networks). Thanks to '1 PPS' and '10 MHz' inputs the device allows synchronization with respect to an external reference (e.g., GPS).

## TECHNICAL SPECIFICATIONS\*

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

### MODULATOR

Input type	4 x ASI continuous modes, compliant with EN50083-9 (1 Vpp, BNC, 75 $\Omega$ )
IF output frequency	36 MHz, 70 MHz, 140 MHz (others on request)
IF output level	-20 dBm ÷ 0 dBm adjustable
MER	> 48 dB
Modulation type	DVB-T COFDM compliant with ETSI EN 300 744 v1.5.1
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
Network type	MFN, SFN with GPS reference (1 PPS e 10 MHz)
Bitrate	Up to 31.6 Mbps

### UP CONVERTER

RF output frequency	7 GHz or 10 GHz bands
RF output level	+30 dBm (1 W) CW +26 dBm typ. QPSK

### GENERAL

Local control	Rotary encoder and display on front panel
Remote control	RS232, HTTP or SNMP
Power supply	110 ÷ 240 Vac
Power consumption	30 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 270 mm, Modulator) Custom box (220 x 96 x 228 mm, Up Converter)
Protection degree	IP50 (Modulator) IP67 (Up Converter)