PM microwave

DVB-S2 TRANSMITTERS

DML-TS220

The TS200 series transmitters are the ideal solution for DVB-S2 digital broadcasting. The second generation of digital satellite transmission standard (backward compatible with DVB-S systems) has introduced architectural enhancements that allow to manage more transmission capacity. Among the various peculiarities stands the ability to handle multiple data streams encoded according to standards MPEG-2 or MPEG-4 (H.264) for the support of HDTV.

The transmitter TS220 consists of an indoor unit in the form of 19'' 1U rack, having functionality of DVB-S2 Modulator at intermediate frequency IF, and an outdoor unit with the role of Up Converter from IF to RF.

TECHNICAL SPECIFICATIONS*

*specifications may be changed in accordance with the technical department

MODULATOR

Input signal	2x ASI continuous modes, compliant with EN50083-9 (1 Vpp, BNC, 75 Ω)
IF output frequency	70 MHz
IF output level	0 ÷ -20 dBm typ. (in 0.5 dBm steps)
Modulation	DVB-S2 QPSK / 8PSK / 16APSK / 32APSK compliant with ETSI EN 302 307
FEC	1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Symbol rate	1 ÷ 45 MSymbol/s (in 1 kSymbol steps)
Roll-off factor	20%, 25%, 35%
Pilot	On / Off
Spectral inversion	On / Off

UP CONVERTER AND AMPLIFIER

RF output frequency	7 GHz or 10 GHz bands
RF output level (CW)	+27 dBm (0.5 W)
	+30 dBm (1 W)
	+33 dBm (2 W)
	+37 dBm (5 W)
	+40 dBm (10 W)

GENERAL

Local control	Rotary encoder and display on front panel
Remote control	RS232, HTTP or SNMP
Power supply	110 ÷ 240 Vac
Power consumption	20 W typ. (Modulator)
Operating temperature	-10 ÷ +45 °C
Storage temperature	-20 ÷ +80 °C
Storage relative humidity	10% ÷ 80%
Dimensions	Rack 19'' 1U (483 × 45 × 435 mm, Modulator) Custom box (220 × 96 × 228 mm, Up Converter)
Protection degree	IP50 (Modulator) IP67 (Up converter)