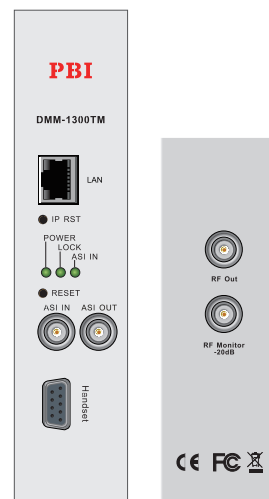


Digital TV Modulator and Trans-Modulator

DMM-1300TM Series Single Channel Transmodulator

- DVB-S2/S, DVB-C or DVB-T Tuner Input
- ASI input and output
- Flexible re-multiplexing between ASI and Tuner inputs
- PSI/SI adapting and re-generation, including NIT insertion, LCN insertion etc.
- Service Drop or PID filtering and Re-mapping
- Remote Control and Supervision by SNMP, HTTP WEB and Proprietary HDMS software
- On Site software update through IP
- RSSI, received Eb/No & BER monitoring



Specification

Tuner Input		TS Input Management	
DVB-S/S2 Tuner Input		Remux and demux between Tuner and ASI Inputs	
Connector Type	1×F type female 75Ω for Input, 1×F type female 75Ω for loop through output	Service and PID management	Remux, filtering and remapping
Input Frequency Range	950~2150MHz	PSI/SI	PSI/SI table regeneration, NIT and SDT edition, LCN Edition and Re-generation
Input Level	-25~-65dBm	ASI Output	
Symbol Rate	DVB-S QPSK: 5~45MS/s; DVB-S2 8PSK 10~31MS/s	Connector Type	1×BNC Female, 75Ω
Roll-off Factor	DVB-S QPSK: 0.35; DVB-S2 8PSK: 0.35, 0.25, 0.2	Standard	DVB-ASI, EN50083-9
Punctured Rates	DVB-S2 8PSK: 2/3, 3/4, 3/5, 5/6, 8/9, 9/10 DVB-S QPSK: 1/2, 2/3, 3/4, 5/6, 6/7, 7/8	TS Processing	2 mirror TS Re-multiplexing from Tuner and ASI inputs
LNB Polarization	0, 13V, 18V selectable	DVB-C Re-Modulation	
LNB Band Switching Tone	0/22KHz selectable	Constellation	J.83 Annex A: 16/32/64/128/256QAM; J.83 Annex B: 64/256QAM
DVB-C Tuner Input		Symbol Rate	3~7.2MS/s
Connector Type	1×F type female 75Ω for Input, 1×F type female 75Ω for loop through output	I/Q Amplitude Error	< 0.3%
Input Frequency Range	48~860MHz	I/Q Phase Error	< 0.3°
Symbol Rate	1~7MS/s (ITU J.83 Annex A)	Phase jitter	< 0.5°RMS
Constellation	64/128/256 QAM	MER	> 35dB
Input Level	-15~15dBmV	DVB-T Re-Modulation	
Bandwidth	6/7/8MHz	Constellation	QPSK/16QAM/64QAM
Input Return Loss	7dB (typ.)	Bandwidth	5/6/7/8MHz
DVB-T Tuner Input		FFT Mode	2K
Connector Type	1×F type female 75Ω for Input, 1×F type female 75Ω for loop through output	Guard Interval	1/4, 1/8, 1/16, 1/32
Input Frequency Range	174~230MHz (VHF); 470~860MHz (UHF)	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
Input Level	-20~-70dBm	MER	>36dB
Constellation	QPSK, 16-QAM, 64-QAM	RF Output	
Carrier Bandwidth	6/7/8 MHz	Connector Type	F type female, 75Ω
FTT Mode	2K/8K	Output Frequency Range	48~860MHz agile, step by 10 KHz
Guard Interval	1/4, 1/8, 1/16, 1/32	Output Level	97~110dBμV, step by 1dBμV
FEC Code Rate	1/2, 2/3, 3/4, 5/6, 7/8	Spurious Rejection	55dB (typ.)
ASI Input		Output Return Loss	12dB (typ.)
Connector Type	1×BNC Female, 75Ω	Control & Monitoring	
Standard	DVB-ASI, EN50083-9	Connector Type	1×RJ45, 10/100M, for equipment IP Control
Input Bit Rate	≤ 100Mb/s	Remote Control	SNMP, HTTP Web, Proprietary HDMS Network System Management Software
Package Length	188 or 204 Bytes	Local Control	Handheld Programmer Unit
TS Processing		Software Upgrade	FTP loader