

Professional IRD and Processor

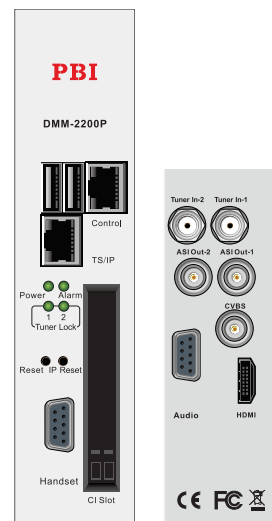
DMM-2200P Series

Twin Professional HD/SD IRD and Processor Module

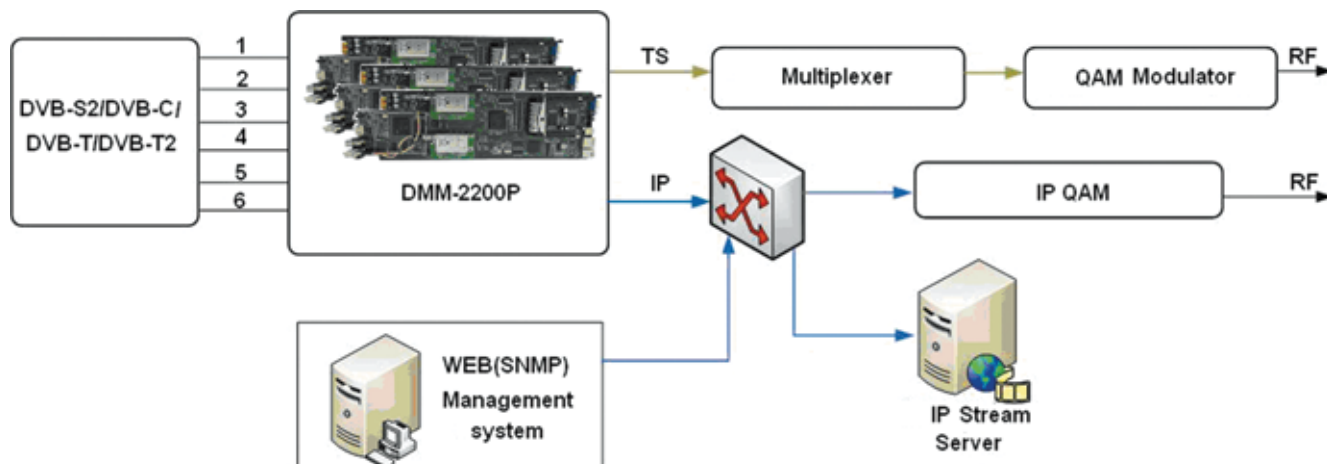
DMM-2200P is a high-density, cost-effective modular receiver equipped with two independent tuners, which can be chosen respectively from DVB-T2/S2/S/C/T/T2 inputs. DMM-2200P supports a wide range of application by combining dual tuner processing capability with MPEG2, H.264, SD/HD video decoding and industry standard outputs including ASI, CVBS, HDMI, TS/IP. It has 2 DVB common interface slots capable of working with most of well-known CAS in the market to de-crypt multiple pay TV services. The compact dual-tuner design and the powerful decoding ability make DMM-2200P one of the most competitive modules in DMM1000 series.

Main features

- SD/HD MPEG-2(MP@ML&MP@HL) and MPEG-4/H.264(AVC high profile level 4.1) digital Video decoding
- Twin-tuner design, wide tuner options from DVB-S2/S/C/T/T2
- 2x DVB-CI Slots, Multi Programs, BISS 1 and BISS E decryption
- Support services re-mux/filter and 204/188 transfer
- UDP/RTP & Unicast/Multicast SPTS and MPTS over IP I/O
- Support VBI TELETEXT, EBU/ DVB Subtitle, Closed Caption
- Dynamic PMT detection and automatic updating
- Multiple Analog and Digital Outputs, ASI, CVBS, HDMI, TS/IP
- Support NTP(Network Time Protocol)
- Remote Control and Supervision by SNMP and HTTP WEB
- RSSI, received Eb/No & BER monitoring
- Quick upgraded via USB port
- Auto save settings when sudden power-off



Application

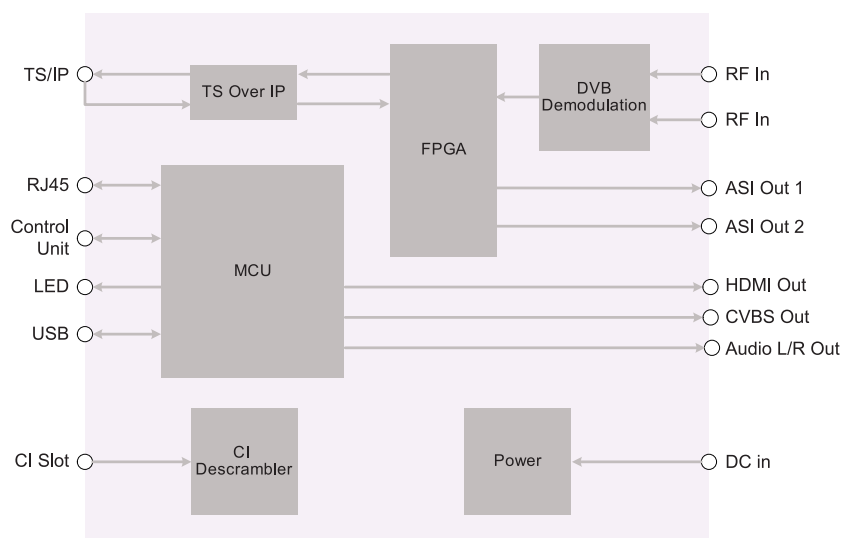


Specification

Tuner Input			
DVB-S/S2 Tuner Input		TS output	
Connector Type	2×F type female 75Ω for input	Re-mux	2 independent ASI outputs
Input Frequency Range	950~2150MHz	BISS descramble	Re-mux services, edit PSI/SI
Input Level	-25~-65dBm	CI slots	BISS-1, BISS-E
Symbol Rate	2~45MS/s for QPSK and 8PSK		2×PCMCIA Slots, comply with most major CAMs in market
Rolling-off Factor	DVB-S QPSK: 0.35 DVB-S2 8PSK: 0.35, 0.25, 0.2	ASI Output	
Punctured Rates	DVB-S QPSK: 1/2, 2/3, 3/4, 5/6, 7/8 DVB-S2 QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 DVB-S2 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10	Connector Type	2×BNC Female, 75Ω
LNB Polarization	0, 13V, 18V selectable	Standard	DVB-ASI, EN50083-9
LNB Band Switching Tone	0/22KHz selectable	Output bit rate	≤160Mb/s
DiSEqC	DiSEqC 1.0	HDMI Output	
DVB-C Tuner Input		Standard HDMI	1×HDMI 1.3 interface (partial)
Connector Type	2×F type female 75Ω for input	Video Resolution	1080i×30, 1080i×29.97, 1080i×25, 720p×60, 720p×59.94, 720p×50, 480p×60, 576p×50, 576i×25, 480i×29.97
Input frequency	51~862MHz	Audio Embedded	1×Stereo or AC3 Loop Through
Input level	45~75dBuV	Digital Video/Audio Processing	
Symbol rate	1~7MS/s (ITU J.83 Annex A)	Video Standard	MPEG-2(MP@ ML for SD, MP@HL for HD), MPEG 4/H.264 AVC high profile level 4.1
Constellation	16/32/64/128/256QAM	Audio Standard	MPEG-1 Layer-I/II, MPEG-2 Layer-II
Bandwidth	6/7/8MHz		LC-AAC, HE-AAC, AC3, AC3+
Input return loss	7dB (typ.)	Analog Video Output	
DVB-T/T2 Tuner Input		Connector Type	1×BNC female
Connector Type	2×F type female 75Ω for input	Video Standard	NTSC, PAL, and SECAM
Input frequency	104~862MHz (VHF/UHF)	Video bit rate	≤50Mb/s
Input level	-20~-70dBm	Analog Audio Output	
Constellation	DVB-T: QPSK/16-QAM/64-QAM DVB-T2: QPSK, 16QAM, 64QAM, 256QAM	Connector Type	1×DB9, 600Ω, has a DB-9 to XLR converter
Bandwidth	6MHz/7MHz/8MHz	Output type	Left, Right, Dual Mono, Stereo
FFT mode	DVB-T: 2K/8K DVB-T2: 1K, 2K, 4K, 8K, 16K, 32K	Baseband Data Output	
Guard interval	DVB-T: 1/4, 1/8, 1/16, 1/32 DVB-T2: 1/4, 5/32, 1/8, 5/64, 1/16, 1/32, 1/64, 1/128	Subtitle	DVB/EBU
FEC code rate	DVB-T: 1/2, 2/3, 3/4, 5/6, 7/8 DVB-T2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6	VBI	Teletext, WSS
Input return loss	7dB (typ.)	Closed Caption	EIA 608, EIA 708, EIA 608-to-708
TS over IP		A/V monitor	
Connector Type	1×RJ45, 10/100M for TS/IP	Monitor Port	HDMI, CVBS
Useful bit rate	70Mb/s for 10/100M	Monitor Condition	User define
Protocol	UDP / RTP, Multicast / Unicast, IGMPv2, ARP	Control & Monitoring	
Uni/Multicast	support maximum 32 channel uni/multicast output	Connector Type	1×RJ45, 10/100M, for equipment IP Control
TS Processing		Remote Control	SNMP, HTTP Web
TS input	Tuner1, Tuner2 or TS/IP input	Local Control	Handheld Programmer Unit
		Software Upgrade	1×USB Port or FTP loader
		General	
		Power supply	DC 3.3V/5V/12V, supplied by DMM-1000MF chassis
		Power consumption	20W
		Operating temperature	0~45°C
		Storage temperature	-10~60°C
		Operating Humidity	10~90%, non-condensed

Block Diagram

DMM-2200P Functional Block Diagram



Order Information

Interface		Model	DMM-2200P-S2	DMM-2200P-T2
Input	DVB-S2/S		×2	
	DVB-T2/T/C			×2
	CI		×2	×2
	TS/IP		•	•
Output	HDMI		•	•
	CVBS&Audio L/R		•	•
	ASI		×2	×2
	TS/IP		•	•