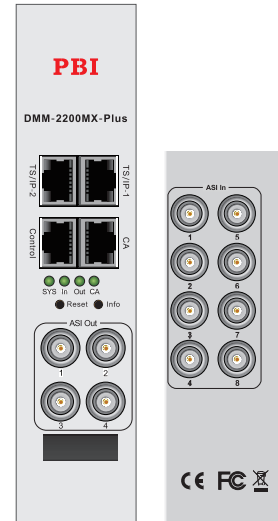


DMM-2200MX-Plus Series Re-Multiplexer and Scrambler module

DMM-2000MX-Plus is a series of high-density advanced DVB transport stream re-multiplexer modules. It can receive SPTS and MPTS from both GbE and ASI input ports. By using the user-friendly web control interface, the input TS is demuxed to SPTS, then routed to the ASI and GbE output ports to build new SPTS and MPTS with PSI/SI regeneration or pass through. It can support up to 256 PID or 32 TV services per TS with re-mapping, bypass, filtering functions. PCR jitter is improved by PCR correction and re-stamping features.

As an advanced option, DMM-2200MX can provide with DVB scrambling functions. It can support BISS-1, BISS-E and Simulcrypt modes by using the DVB common scrambling algorithm and built-in CW generator.

With its multiple TS over ASI and IP input and output ports, flexible configuration and powerful TS processing ability, DMM-2200MX-Plus is a key routing equipment that links the TV sources from professional IRDs and encoders to DVB modulators in the headend system.



Features

- MPEG-2 and MPEG-4/H.264 TS Re-Multiplexing
- BISS-1/E, Simulcrypt mode Scrambling (DMM-2200MX-TP-Plus only)
- Support location or remote CAS Simulcrypt (DMM-2200MX-TP-Plus only)
- TS Input and Output from ASI and IP
- Full duplex port up to 860Mbps TS in and 860Mbps TS out
- Support UDP/TCP/RTP, Multicast and Unicast modes
- Null packet insertion for TS/IP transmission
- Maximum processing of 32 services or 256 PIDs per TS
- Service, component, data de-multiplexing, filtering and re-multiplexing
- PCR re-generation and correction function
- PID and service remapping, bypass, filtering, conflict detection
- PSI/SI re-generation, insertion, NIT and SDT edition
- EIT bypass or re-generation
- TS Analyzer with TS, service bit rate and alarm supervision
- Web remote control and SNMP supervision

Order Information

Interface	Model	DMM-2200MX-Plus	DMM-2200MXTP-Plus
ASI in		×8	×8
ASI out		×4	×4
Remultiplexer		•	•
DVB Scrambling			2 TS
TS/IP (GbE)		×2	×2
Ethernet Management		×1	×1
TS/IP in		32TS per port	32TS per port
TS/IP out		32TS Total, including 4*MUX TS	32TS Total, including 4*MUX TS

Specification

ASI Ports	
ASI Input	8xBNC, 75Ω
ASI Output	4xBNC, 75Ω
Standard	DVB-ASI, EN50083-9
Data mode	BYTE or BURST auto-detection
Packet Length	188 /204 bytes, auto-detection
Signal Level	200-800mVpp±10%
Reflection loss	15dB
TS over IP	
Transmission mode	Multicast or Unicast, IGMP V2/V3, UDP/RTP
Number of streams	64, 128 or 256
Input and output Bit Rate	Maximum 860Mb/s
Encapsulation	UDP or UDP/RTP 1-7 TS packets in each IP packet
PCR clock reference	PCR regeneration
Connector type	1000M Ethernet RJ-45
TS Processing	
Maximum TS	64 TS from IP and 8 TS from 8 ASI
Maximum service	64 services from each of 8 ASI port, 32services, during PCR regeneration 64 services from each of 64 TS over IP
Service management	Local service building Live service input pass through, stop, filtering, sharing and redundancy Service proprieties' edition and modification
Component management	Local component building Live component input pass through, stop,filtering, sharing, redundancy
EMM, ECM and private data	Crossing and filtering
PSI/SI and Data	
PSI/SI	Regeneration and edition tables anddescriptors through on line editor Tree structure view in XML format

EIT	Pass through, regrouping, automaticremapping of TS ID, ON_ID and ServiceIDin the EITs from different ASI and IP inputs
DVB Scrambling	
Scrambling mode	Simulcrypt, BISS-1, BISS-E
Simulcrypt number per TS	Maximum 4
Processing capability	<54Mb/s per TS
EMM	Protocol TCP or UDP; Maximum bandwidth 8Mb/s
ECM	Protocol TCP;Maximum bandwidth 3.8Mb/s
Control & Monitoring	
Connector Type	RJ-45, 10/100 Base-T
Local Control	LED*4 and LCDdisplay
Remote Control	HTTP Web, SNMP future extension
Equipment Upgrade	HTTP web page
Racks	
Model and Type	DMM-1100MF for 4RU; DMM-210MF for 1RU
Number of Slot	8 slots for 4RU rack, 2 slots for 1RU rack Width=483mm, Height=177mm, Depth=388mm for 4RU Width=483mm, Height=44mm, Depth=388mm for 1RU
Dimension	
Cooling	By air with automatic temperature detection
Power Supply	AC 100V-260V, 50-60Hz
Physicals	
Dimension	381mm×111mm×32mm
Weight	0.335Kg Net
Power Supply	DC 5V, 5A
Power Consumption	25W
Temperature	Operating 0~45°C; Storage -10~60°C
Operating Humidity	10~90%, non-condensed

Block Diagram

