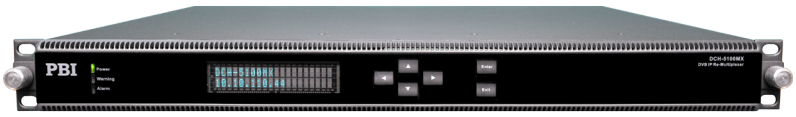
DCH-5100MX

Re-Multiplexer and Scrambler

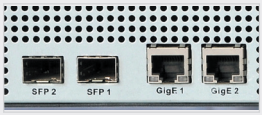


DCH-5100MX is a high density advanced DVB transport stream re-multiplexer and scrambler. It can receive SPTS and MPTS from both GbE and ASI input ports. By using the user friendly web control interface, the input TS is demuxed to SPTS, then routed to the ASI and GbE output ports to build new SPTS and MPTS with PSI/SI regeneration or pass through. It can support up to maximum 1024 PID with re-mapping, bypass, filtering functions.

As an advanced option, DCH-5100MX 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, DCH-5100MX is a key routing equipment that links the TV sources from professional IRDs and encoders to DVB modulators in the headend system.

Support Two switched GigE ports inputs



Multiple ASI inputs and outputs

Redundant power supplies

Main Feature

- Support MPEG2/H.264 TS Re-Multiplexing
- BISS 1/E, Simulcrypt mode Scrambling in advanced mode
- Support local or remote CAS synchronous simulcrypt processing
- PSI/SI re-generation, insertion, NIT and SDT edition
- EIT bypass or re-generation
- PCR re-generation and correction function
- TS/IP through GbE port up to 950Mbps input/output
- Null packet insertion for TS/IP transmission
- Web remote management and SNMP supervision

Order Information

Function \ Model	DCH-5100MX
ASI-In	×4
TS/IP In	×160
ASI-Out	×8

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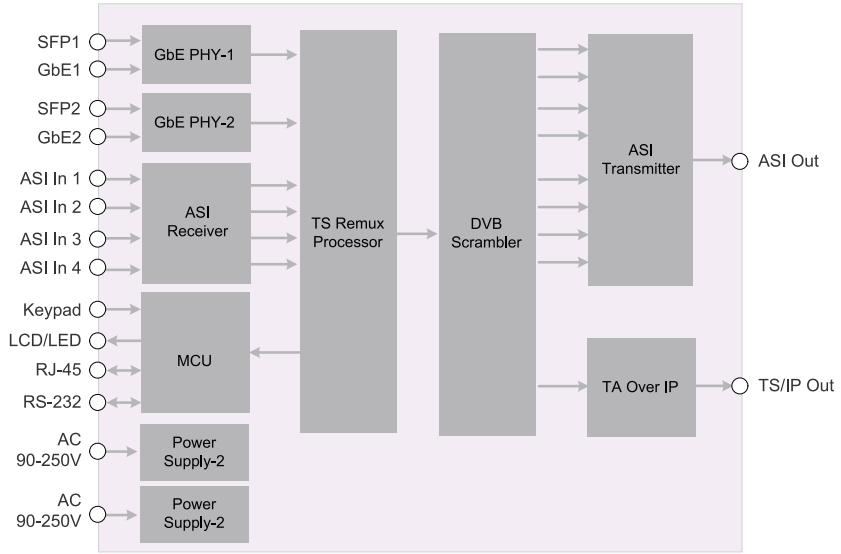
Specification

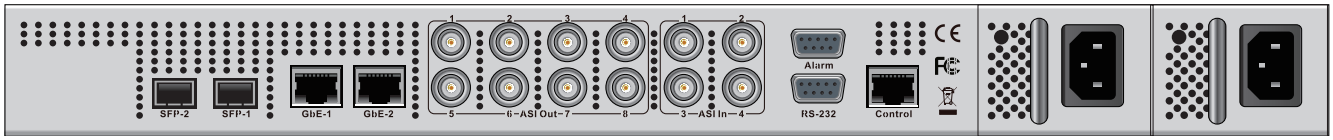
TS over IP	
Connector type	1000M Ethernet RJ-45 electrical
Transmission mode	IPv4, ARP, UDP, RTP
Operating Mode	Full duplex, Auto negotiable
Streaming Type	Multicast or Unicast
Number of streams	160
Type of TS Streaming	SPTS or MPTS
TTL	1~255 (adjustable)
De-jitter	≤ 200ms
Effective Input Bit Rate	≤950Mb/s
ASI Ports	
Connector type	4×BNC female, 75Ω
Standard	DVB-ASI, EN50083-9
Input Return Loss	15dB
Minimum Input Level	200mV
Packet Length	Burst or Byte, 188 or 204 Byte/Packet
Input bit rate	≤216Mb/s
TS Re-Multiplexing	
TS Input Management	Remultiplexing up to 4 DVB-ASI inputs and 160 MPTS/SPTS inputs
Service and PID management	Service or component based Remultiplexing, filtering and PID remapping
PSI/SI	PSI/SI table regeneration, NIT and SDT edition, LCN Edition and Re-generation

PCR	PCR regeneration
Null packet	Filtering or inserting
DVB Scrambling	
Scrambling mode	Simulcrypt, BISS-1, BISS-E
Simulcrypt number per TS	Maximum 4
Control & Monitoring	
Connector Type	1×RJ-45, 10/100 Base-T (for remote control)
Remote Control	SNMP, HTTP Web, Command Line
Protocol	HTTP 1.1, SNMPv1&v2
Local Control	LCD and 6-key on front panel
Serial Port	1×RS-232 D-sub 9-pin(for debug use only)
Alarm and Contact Relay	
Connector Type	1×D-sub 9-pin
Alarm & Warning Indicator	Dual colors LED on Front panel, Contact Relay on Rear panel
Trap	SNMP v1 & v2
Event Log	last 100 events logged in non-volatile memory
Power	
Power Supply	AC 90V~250V, 50/60Hz
Power Consumption	50W
Physicals	
Dimension	445mm×543mm×44mm
Weight	8Kg Net, 12Kg Gross
Temperature	Operating 0~45℃ ; Storage -10~60℃
Operating Humidity	10~90%, non-condensed

Block Diagram



Back Panel Interface



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