SCR5800
DVB Scrambler & Re-Multiplexer

The SCR5800 is a high density advanced DVB transport stream re-multiplexer and scrambler. It can receive SPTS and MPTS from both GbE and ASI inputs. By using the web GUI control interface, the input TS is demuxed to SPTS, then routed to the ASI and GbE output ports to re-build SPTS and MPTS transport streams with PSI/SI regeneration or pass through. It can support up to maximum 256 PIDs or 50 services per TS with re-mapping, bypass, filtering functions.

The SCR5800 incorporates support for DVB BISS-1, BISS-E and Simulcrypt modes by using the DVB common scrambling algorithm and built-in CW generator.
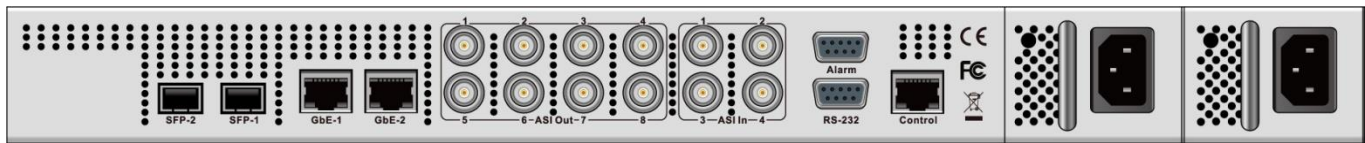

Features

● Support MPEG TS Re-Multiplexing
● BISS 1/E, Simulcrypt mode Scrambling in advanced mode
● Support local or remote CAS synchronous simulcrypt processing
● EIT bypass or re-generation
● PSI/SI re-generation, insertion, NIT and SDT edition
● 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
● SNMP supervision

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
Physical	
Dimension	445mm×543mm×44mm
Weight	8Kg Net, 12Kg Gross
Temperature	Operating 0 ~ 45℃; Storage -10 ~ 60℃
Operating Humidity	10 ~ 90%, non-condensed
Certifications	FCC CE

Back Panel Interface

Function Block Diagram

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