

SMP180

12-channel Receiver

COMCAST GROUP
Distribuidor autorizado



- © 12-in-1 Compact Design
- © DesignDVB-S2/S/C
- © ReceivingOptions of EIT and MIS
- © Flexible MultiplexingASI/IP Input and OutputReliable and Future-proof

Introduction

SMP180 is a multi-channel receiver, offering customer a cost-effective solution in mass programs receiving and descrambling. SMP180 supports receiving/descrambling up to 12CH streams from cable and satellite. It can also re-multiplex external TS/data as well as receive programs and output SPTS/MPTS via the embedded ASI or IP interfaces for following headend processing or IP transmission.

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Features

- ▶ High density receiving up to 12CH clear TS or 4CH scrambled TS
- ▶ All standards compliance including DVB-S2, DVB-S and DVB-C
- ▶ Up to 4 integrated DVB common interfaces (max. 4CH with descrambling function)
- ▶ Embedded ASI and TSIP I/O for SPTS/MPTS insertion and digital turn around
- ▶ Re-multiplexing (EPG/EIT re-multiplexing is optional) and grooming
- ▶ Supports audio and auxiliary data pass-through (AC3, CC, Teletext, etc)
- ▶ Supports TS-level BISS descrambling (optional)
- ▶ Supports HLS receiving (future option)
- ▶ Easy management via Web-UI or SNMP.
- ▶ Low power consumption and high reliability with MTBF (Mean Time Between Failure) $\geq 100,000$ hours

Order Information

Model	Description
SMP180-SRS2-02	DVB-S/S2 receiver (12-channel@QPSK/8PSK, or 6-channel@QPSK/8PSK/16APSK/32APSK)
SMP180-SRSCI-02	DVB-S/S2 receiver with descrambling (4-channel w/ 4 CI slots)
SMP180-SRC-00	DVB-C receiver (12-channel)
SMP180-SRCCI-00	DVB-C receiver with descrambling (4-channel w/ 4 CI slots)
SMP180-SRS2-98	BISS descrambling (software option)
SMP180-SRS2-99	DVB-S2 multi-stream receiving (software option)

*Please find us if you can't find or need more details.

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Specifications

Chassis	
Processing Capacity	800TS (approx. 1000 programs)
Data Processing	4Gbps
Slot Number	3 slots
Interface	2 x ASI inputs (BNC, Female, 75Ω ports) 2 x ASI outputs (BNC, Female, 75Ω ports) 1 x GbE TS/IP, TS/IP (RJ45), 64In32Out of SPTS/MPTS 1 x management (RJ45)
Multiplexing	
Routing	Any input to any output
Table Supported	SI/PSI/PSIP
PID Processing	Pass-through, remapping, filtering
EIT Processing	Pass-through and re-multiplexing (optional)
External Data	EPG and SI insertion
DVB-C Receiving	
Interface	6 x RF input (2 frequencies per port, 12CH clear TS mode) 6 x RF loop-out 2 x RF input (2 frequencies per port, 4CH descrambling mode) 2 x RF loop-out
QAM Type	ITU-T J.83 Annex A/C
Frequency Range	48-862 MHz
QAM Mode	16/32/64/128/256 QAM
Symbol Rate	3.6-6.952 Ms/s
Per RF Input Bit-rate	Up to 55Mbps
Signal Level	40-80 dBuV

DVB-S/S2 Receiving	
Interfaces	12 X RF input per module 4 X RF input per module
Constellation	QPSK, 8PSK, 16APSK, 32APSK
Constellation	(Normal Mode)
Capacity	12 clear or 4 scrambled frequencies
DVB-S	1-45 Msps (QPSK: 1/2,2/3,3/4,5/6,7/8)
DVB-S2	1-31.5 Msps (QPSK: 1/2,3/5,2/3,3/4,5/6,8/9,9/10) 1-31.5 Msps (8PSK: 3/5,2/3,3/4,5/6,8/9,9/10)
Constellation	(Advanced Mode)
Capacity	6 clear or 2 scrambled frequencies
DVB-S2	1-45 Msps (QPSK: 1/2,3/5,2/3,3/4,5/6,8/9,9/10) 1-45 Msps (8PSK: 3/5,2/3,3/4,5/6,8/9,9/10) 1-45 Msps (16APSK: 2/3,3/4,4/5,5/6,8/9,9/10) 1-34 Msps (32APSK: 3/4,4/5,5/6,8/9,9/10)
Frequencies	950-2150 MHz
Signal Level	Approx. -65~-25 dBm
Acquisition Range	+/- 5MHz
Tuner Step Size	100KHz
Return Loss	>10dB
LBN Power	
Vertical	11.5V~14.0V
Horizontal	16.0V~19.0V
22K Switch	On/off

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DVB-CI Descrambling	
Interfaces	4 x PCMCIA CI slots
Modes	Simul-/multi-descrambling (depends on the CAMs)
Supported CAMs	Support for all major CAS

BISS Descrambling	
BISS Mode	BISS-1/BISS-E
BISS Descrambling	Service-level BISS descrambling
Max. Data Rate	Up to 1280 Mbps
Max. Numbers of TS	32 TS
Max. BISS Keys	2048

Management	
Hardware Interface	1 x RJ45 (100Mbps)
User Interface	LED indicators
	LCD screen
	Front panel control
	Web UI
	SNMP (monitoring only)

Physical & Environment	
Input Voltage	90-240 VAC
Power Consumption	Max. 60W
Chassis Dimension	480mm x 44mm x 440mm (WxHxD), 1RU
Operating Temperature	0°C-50°C
Storage Temperature	-10°C-70°C
Operating Humidity	<95%
MTBF	≥100,000 hours