

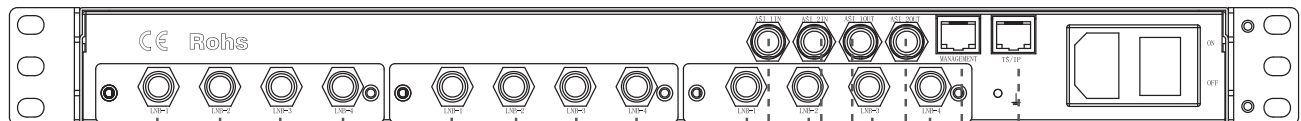


SMP180 Receiver

SMP180 is a 1RU compact, cost effective multi-channel receiver; DVB descrambler and MPEG stream processor. With a flexible modular design, SMP180 can receive and process digital programs from up to 12 DVB-S2 transponders or 12 QAM-RF frequencies. With a different set up, SMP180 can support program decryption via four multi-channel CAM modules with commonly adopted CAS in the market. With ASI and IP interfaces for input and output, SMP180 can be integrated into any headend systems for content delivery and re-distribution.

Features:

- Variety of inputs including DVB-S2, QAM-RF, ASI and IP
- Independent ASI and IP output for different applications.
- Up to four integrated DVB common interfaces to descramble four full transport streams
- Support program remultiplexing and PSI/SI table regeneration
- EPG/Private Data Insertion



- ① LNB-1 ② LNB-2 ③ LNB-3 ④ LNB-4 ⑤ LNB-5 ⑥ LNB-6 ⑦ LNB-7 ⑧ LNB-8 ⑨ LNB-9 ⑩ ASI 1IN ⑪ LNB-10
- ⑫ ASI 2IN ⑬ ASI 1OUT ⑭ ASI 10UT ⑮ LNB-11 ⑯ ASI 2OUT ⑰ LNB-12 ⑱ MANAGEMENT ⑲ TS/IP IN&OUT

Specifications

DVB-S/S2 Input

4XRF input per module (three modules in 1 RU)	
Constellation:	QPSK, 8 PSK
Symbol Rate:	
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; 8PSK: 3/5,2/3,3/4,5/6,8/9, 9/10)
Input Frequency:	950~2150 MHz
Signal Level:	Approx-65~-25 dBm
Acquisition Range:	+/- 5 MHz
Tuner Step Size:	100 KHz
Return Loss:	>10 dB
LNB Power	
Vertical:	11.5V~14.0V
Horizontal:	16.0V~19.0V, 22KHz/off
22K Switch:	on/off

QAM RF Input (optional)

Input Frequency Range:	48 -862 MHz
RF Channel:	4 (6/7/8 MHz) per module
QAM Modulation Mode:	16/32/64/128/256 QAM
QAM Type:	ITU-T J.83 Annex A/ C, Annex B (Future feature)
Symbol Rate:	1.0~6.9 MBauds
RF input bit-rate:	up to 55 Mbps

DVB De-scrambling

DVB-CI Interfaces:	up to 4 independent CI slots (EN50221)
CA Method:	Multicrypt/Simulcrypt, Hot Plug
CAS:	Irdeto, Conax, Viaccess, Nagravision, Novel SuperTV, Verimatrix, CTI, Dvcrypt&other DVB-simulcrypt CAS

GBE IP Interface

Interface:	1 x 1000 per port
IP Encapsulation:	MPEG TS over UDP/RTP
MPEG TS:	MPTS and SPTS
I/O Processing:	Up to 12 Sockets, max at 72 Mbps per socket
Addressing:	Unicast and Multicast
Management:	IGMPv1, IGMPv2, IGMPv3
Forward Error Correction:	ProMPEG

DVB ASI interface

Interface:	4 BNC connectors (2 ASI inputs and 2ASI outputs), 75 Ω
MPEG Format:	188/204Bytes per TS
I/O Processing:	1 MPTS/SPTS per port, up to 120 Mbps per port

Re-multiplexing

PID:	Re-mapping and Filtering
	MPTS Output Synchronization
Routing:	Any Input to Any Output
Redundancy:	Input Service Redundancy & IP Port Redundancy

Management

Interface:	100BaseTX, RJ45
NMS:	Wellav Digital Service Manager
	Web-based Management (future feature)
	Support SNMP

Physical & Environment

Input Voltage:	90 – 260 VAC
Power Consumption:	Approx 60 W
Rack Space:	1 RU
Dimension (WxHxD):	480mm x 44mm x 440mm
Operating Temperature:	0°C to 50°C
Storage Temperature:	-40°C to 65°C
Relative Operating Humidity:	<95%

Order Information

SRS2	DVB-S2 Receiver (12 channel)
SRSCI	DVB-S2 Receiver (4 channel w/ 4 CI)
SRC	DVB-C Receiver (12 channel)
SRCCI	DVB-C Receiver (4 channel w/ 4 CI)



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