



SMP180

Multi-Channel Satellite Receiver



Introduction

With the flexible modular design, SMP180 can:

- Receive and process digital programs from up to 12 DVB-C/S/S2 channels.
- Supports program decryption via four multi-channel CAM modules with commonly adopted CAS in the market.
- Be easily integrated into any headend systems for content delivery and re-distribution.

Order Information

Model	Modules Combination	Feature
SRS2	3xDVBS2	DVB-S2 Receiver (12 channel)
SRSCI	1xDVBS2+2xCI	DVB-S2 Receiver (4 channel w/ 4 CI)
SRC	3xDVBC	DVB-C Receiver (12 channel)
SRCCI	1xDVBC+2xCI	DVB-C Receiver (4 channel w/ 4 CI)

*SMP180 doesn't cover all Wellav's receiving modules, please contact us for more support.

Features

- High density receiving with 1RU compact design.
- Variety of inputs including DVB-S2, DVB-C, ASI and IP (12In12Out).
- Re-multiplexing and cherry picking.
- Multi-channel decryption.
- Independent embedded ASI and IP I/O for different applications.
- Up to four integrated DVB common interfaces to descramble four full transport streams.
- Re-multiplexing of channels received.
- Supports EPG/EIT re-multiplexing. (optional)
- Supports TS-level BISS descrambling. (future option)
- Configuration and monitoring programs via NMS, Web GUI or SNMP.
- High efficiency with low power consumption.

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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)
Bit-rate	Max 100Mbps
CAM	Smit, Aston, Neotion & other major CAMs
CAS:	All leading CAS in the market
BISS 1 & BISS E	TS & Program level

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), 75Ω
MPEG Format:	188/204Bytes per TS
I/O Processing:	1 MPTS/SPTS per port, up to 100 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 Support:	Yes
SNMP Support:	Yes
Web based NMS:	Yes
Physical & Environment	
Input Voltage:	90 - 260 VAC
Power Consumption:	Approx 60W
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%
MTBF:	≥150000 hours