

INOTECH-180 Receiver

Front Panel Picture



INOTECH-180 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, INOTECH-180 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 head end 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

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, 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 Mbps 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 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 60W
 - Rack Space: 1 RU
 - Dimension (WxHxD): 480mm x 44mm x 440mm
 - Operating Temperature: 0° to 50°C
 - Storage Temperature: -40° to 65°C
 - Relative Operating Humidity: <95%