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 ASI and IP interfaces for input and output, IT-180 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

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

  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), 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 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%