

SMP330

Multi-channel Transmodulator

SMP330 can receive digital programs from 8 QPSK/8PSK transponders, demodulate, multiplex and output the selected programs in 8 QAM-RF channels or in 4 DVB-T channels. With ASI and IP input/output options, SMP330 can support MPTS and SPTS input/output with multiplexing, private data insertion and scrambling capability. SMP330 provides a cost-effective yet scalable solution for network operators to re-distribute its content via HFC network.



Features

- ▶ Output 8 QAM-RF channels or 4 DVB-T channels
- ▶ ASI/IP output for monitoring and redistribution
- ▶ ASI/IP input for local content and private data insertion
- ▶ Support cherry picking and program remultiplexing
- ▶ Option to add DVB-simulcrypt scrambling capability

Buy Now!



Order Information

STM DVB-S/S2 to QAM/OFDM Transmodulator

Specifications

DVB-S/S2 Input

| | |
|--------------------|---|
| Constellation: | QPSK, 8 PSK |
| Symbol Rate: | |
| DVB-S: | 1~4.5 Mbps (QPSK: 1/2, 2/3, 3/4, 5/6, 7/8) |
| DVB-S2: | 1~31.5 Mbps (QPSK: 1/2, 3/5, 2/3, 3/4, 5/6, 8/9, 9/10, 10, 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10) |
| Input Frequency: | 950~2150 MHz |
| Signal Level: | -65~-256 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 |
| Z2K Switch: | On/off |

QAM RF Output

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|-----------------------------|--|
| Physical Outputs: | one connector for 8XRF |
| Output Frequency Range: | 48 -862 MHz |
| Output Frequency Step Size: | 50 KHz |
| RF Channel: | 8 (6/7/8 MHz) |
| QAM Modulation Mode: | 16/32/64/128/256 QAM |
| QAM Type: | ITU-T J.83 Annex A/ C, Annex B (64/256QAM) |
| Symbol Rate: | 1.0~6.9 MBauds |
| Output Level: | |
| Effective, single channel: | 90~115 dBuV |
| Combined, 8 channel: | 90~106dBuV |
| MER: | >40dB (Equalized) |
| BER: | <=5*10 ⁻⁹ (64QAM, 6.875Mbps) |

DVB-T Output

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|-----------------------------|-------------------------|
| Physical Outputs: | one connector for 4XRF |
| Output Frequency Range: | 50 -858 MHz |
| Output Frequency Step Size: | 50 KHz |
| Transmission Mode: | 2K, 8K |
| Guard Interval: | 1/4, 1/8, 1/16 and 1/32 |
| Constellation: | QPSK, 16QAM, 64 QAM |
| FEC: | 1/2, 2/3, 3/4, 5/6, 7/8 |
| Output Level: | |
| Effective, Single channel: | 90~115 dBuV |
| Combined, 4 channel: | 90~112dBuV |

GBE IP Input

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|-------------------|------------------------|
| 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 Inputs

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

Re-multiplexing

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

DVB Scrambling (future feature)

| | |
|---|---|
| TS Streams: | up to 8 TS streams (maximum 72 Mbps per TS) |
| Support DVB simulcrypt (maximum 4 CAS simultaneously) | |
| CAS support: | Ideto, Conax, Viaccess, Nagravision, Verimatrix, Novel-Super TV, CTI, Dvccrypt and other DVB-simulcrypt CAS |

CAS

| | |
|-------------------|----------------|
| Scrambling level: | Program or PID |
|-------------------|----------------|

Management

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

Physical & Environment

| | |
|------------------------------|----------------------|
| Input Voltage: | 90 - 260 VAC |
| Power Consumption: | Approx 100 W |
| Rack Space: | 1 RU |
| Dimension (WxHxD): | 480mm x 44mm x 440mm |
| Operating Temperature: | 0C to 50°C |
| Storage Temperature: | -40°C to 65°C |
| Relative Operating Humidity: | < 95% |



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