MX5210 Remultiplexer

Regional headends often require simple low cost remultiplexing units that are reliable and can be positioned in unmanned operations with the flexibility to support multiple interface standards.

The MX5210 is a compact and cost-effective DVB remultiplexer. The combination of straight forward service based configuration, comprehensive feature set and diverse interfacing options make it an ideal product for a wide range of re-multiplexing applications for telecoms and cable operators. The MX5210 has a broad range of interfacing options available and is particularly suitable for deployment in distributed network applications where minimal user intervention is required.

PRODUCT OVERVIEW

Compact and Low Cost

Compact 1RU unit and low cost combine to provide a powerful yet cost-effective solution to both the cable and telcoms industries.

Effective Deployment of Resources

Through the use of nCompass device level control and monitoring, the MX5210 can be configured for minimal user interventions.

BASE UNIT FEATURES

MX5210 Remultiplexer (MX5210/BAS)

- Compact 1RU chassis
- Service or component based remultiplexing
- Up to 8 DVB ASI inputs
- 2 DVB ASI copper outputs
- Output rate up to 190 Mbit/s
- Advanced PSI/SI regeneration
- User friendly configuration via TANDBERG nCompass device level control
- SNMP monitoring and configuration

HARDWARE OPTIONS

DVB ASI Input Card (TCOM30/HWO/4ASI-IN)

Provides for input of transport streams for re-multiplexing:

- Up to 100 Mbit/s MPTS and SPTS
- 4 inputs per card
- PSI/SI monitoring

QAM Output (MX5210/HWO/OM33)

- Internal QAM modulator for digital cable applications
- Annex A, B and C with 64 and 256QAM support
- Full band 91 – 873 MHz

SMPTE 310 Output (MX5210/HWO/OT12)

- Provides for output of transport stream in SMPTE 310M format

ATM AAL1 STM-1 Output

Provides AAL1 ATM output of transport stream on STM-1 (155 Mbit/s):

- Electrical interface (MX5210/HWO/OT16)
- Multimode optical interface (MX5210/HWO/OT14)
- Single mode optical interface (MX5210/HWO/OT15)

ATM AAL5 STM-1 Output

Provides AAL5 ATM output of transport stream on STM-1 (155 Mbit/s):

- Electrical interface (MX5210/HWO/OT11)
- Multimode optical interface (MX5210/HWO/OT9)
- Single mode optical interface (MX5210/HWO/OT10)

ATM AAL1 DVB G.703 Output

Provides DVB compliant ATM output on G.703:

- E3 (34 Mbit/s) interface (MX5210/HWO/OT7)
- DS3 (45 Mbit/s) interface (MX5210/HWO/OT8)

TANDBERG DVB G.703 Output

Provides output of transport stream on G.703:

- Highly efficient TANDBERG Television proprietary interfacing
- E3 (34 Mbit/s) interface (MX5210/HWO/OT5)
- DS3 (45 Mbit/s) interface (MX5210/HWO/OT6)

SMPTE 310 Input (MX5210/HWO/IT12)

- Allows input of transport stream in SMPTE 310M format

ATM AAL1 STM-1 Input

Provides AAL1 ATM input for transport stream on STM-1 (155 Mbit/s):

- Electrical interface (MX5210/HWO/IT16)
- Multimode optical interface (MX5210/HWO/IT14)
- Single mode optical interface (MX5210/HWO/IT15)

ATM AAL5 STM-1 Input

Provides AAL5 ATM input for transport stream on STM-1 (155 Mbit/s):

- Electrical interface (MX5210/HWO/IT11)
- Multimode optical interface (MX5210/HWO/IT9)
- Single mode optical interface (MX5210/HWO/IT10)

ATM AAL1 DVB G.703 Input

Provides DVB compliant ATM input on G.703:

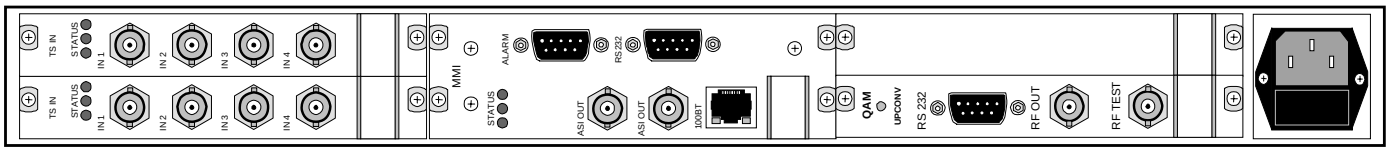
- E3 (34 Mbit/s) interface (MX5210/HWO/IT7)
- DS3 (45 Mbit/s) interface (MX5210/HWO/IT8)

TANDBERG DVB G.703 Input

Allows input of transport stream on G.703:

- Highly efficient TANDBERG Television proprietary interfacing
- E3 (34 Mbit/s) interface (MX5210/HWO/IT5)
- DS3 (45 Mbit/s) interface (MX5210/HWO/IT6)

SAMPLE CONFIGURATION



SPECIFICATIONS

Inputs

DVB ASI

Up to 190 Mbit/s

4 inputs per card

Max. 2 Input cards (8 DVB ASI Inputs)

G.703

TANDBERG Protocol: 34 (E3) or 45 (DS3) Mbit/s

ATM

34 (E3) or 45 (DS3) Mbit/s AAL-1, electrical (PDH)

AAL-1/AAL-5 155Mbit/s (STM-1), electrical/optical

SMPTE 310M

Outputs

Default output interface is DVB ASI (always active):

DVB ASI

Bitrate: Up to 190 Mbit/s

Dual mirrored ASI output (both active)

QAM Modulator

64, and 256 QAM (ITU-T J.083, Annex A, B and C)

Frequency range: 91-873MHz

G.703

TANDBERG Protocol: 34 (E3) or 45 (DS3) Mbit/s

ATM

34 (E3) or 45 (DS3) Mbit/s AAL-1, electrical (PDH)

AAL-1/AAL-5 155 Mbit/s, electrical/optical

SMPTE 310M

Multiplexing

Up to 8191 output PIDs

Full PID remapping

Control

Front panel and keypad: Ethernet settings, device reset and configuration info.

SNMP remote control for integration in centralised management applications

Full control & monitoring via nCompass device level control

Physical and Power

Dimensions (W x D x H)

483 x 395 x 44mm (19” x 13.7” x 1RU)

Input Voltage

110/240 Vac

Cooling

Integrated fans

Operating Temperature

0°C to +45°C (32°F to 113°F)

Storage Temperature

-20°C to +70°C (-4°F to 158°F)

Compliance

CE marked in accordance with Low Voltage