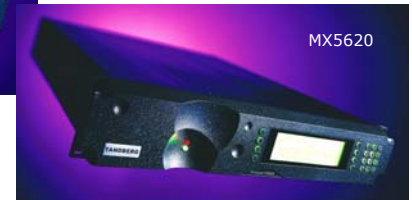




A powerful Video, Audio and Data multiplexer suitable for mission critical broadcast applications.



## Business Benefits

- The combination of Reflex™ statistical multiplexing, video bit-rate changing, opportunistic data and advanced multiplexing technology ensures maximum usage of available bit-rate.
- Modular architecture with a wide range of available options ensures scalability and allows multiplexers to be tailored to the needs of individual customers.
- The MX5600 multiplexers are fully integrated with TANDBERG Television's industry leading system management applications, which combine ease of use with advanced control and monitoring capabilities.

## Application

The MX5600 range of multiplexers is suited for a wide range of multiplexing and re-multiplexing applications including primary multiplexing in head-ends for DTH satellite, cable and terrestrial, contribution systems and re-multiplexing applications in cable and terrestrial regional head-ends.

## Base units

### M2/MUX/MX5620 and M2/MUX/MX5640

- MX5620 model – 2RU, 4 option slots
- MX5640 model – 4RU, 12 option slots
- 3 DVB ASI copper outputs
- Output rate up to 100 Mbps
- Highly efficient multiplexing algorithms
- Advanced re-multiplexing
- Reflex™ statistical multiplexing
- Control via TANDBERG Television system management applications
- SNMP remote monitoring

## Options

### DVB ASI Input Card (M2/MUX/4ASI-IN-1)

- Provides for input of transport streams for re-multiplexing
- Up to 100 Mbps MPTS and SPTS
- 4 inputs per card
- PSI/SI monitoring and processing

### DVB Simulcrypt Conditional Access (M2/MUX/DVBCA)

- Provides fully compliant internal DVB scrambling solution
- DVB Simulcrypt and OpenCAS interfaces

### Video Bit-Rate Changing (M2/MUX/BRC)

- Allows the bit-rate of re-multiplexed video services to be groomed
- Separate data sheet available

### Opportunistic Data (M2/MUX/OPP-DATA)

- Allows IP encapsulated data to be inserted into spare output capacity
- SMPTE 325 flow control interfacing



## Options

### **Ethernet Data Insertion (M2/MUX/EDI)**

- Allows packetisation and insertion of various data formats
- Support for both streamed and internally carouselled data

### **DVB SFN Adaptation (M2/MUX/SFN)**

- Provides internal framing and synchronization required for DVB SFN terrestrial networks
- Includes GPS receiver 1pps and 10MHz interface option card

### **DVB ASI Optical Interface (M2/MUX/ASI-OPT)**

- Allows output of transport streams in DVB ASI optical format
- 2 outputs per option card

### **DVB SPI Interface (M2/MUX/SPI-OUT)**

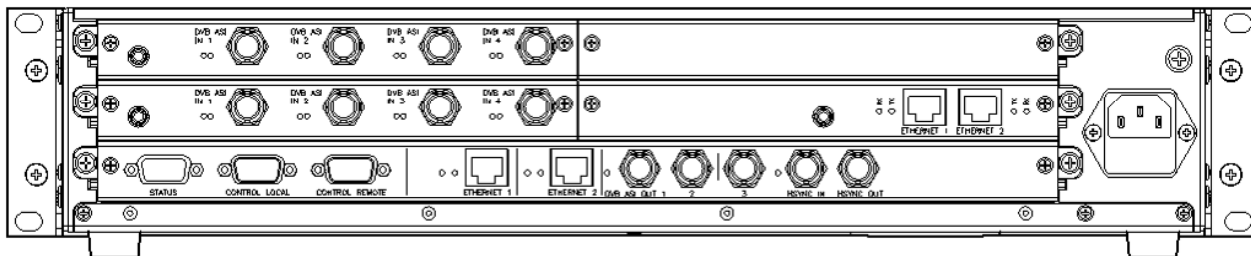
- Allows output of transport streams on DVB SPI format
- 3 outputs per option card

### **SMPTE 310 Interface (M2/MUX/SMPTE)**

- Allows output of transport streams in DVB ASI optical format
- 2 outputs per option card



Sample configuration:



<p><b>INPUTS</b></p>	<p><b>MPTS and SPTS Transport Stream input options up to 100 Mbit/s:</b> DVB ASI copper (4 per card) DVB SPI (ASI loop through 2 per card)</p> <p><b>Reference Inputs:</b> Internal high specification 27MHz timing clock reference External analogue video clock reference GPS Input (10MHz and 1Hz from a GPS receiver)</p>	<p><b>PHYSICAL AND POWER</b></p>	<p><b>Dimensions:</b> <b>MX5620:</b> (W x D x H) 440 x 543 x 89mm (17.5" x 21.5" x 2RU) <b>MX5640:</b> (W x D x H) 440 x 543 x 177mm (17.5" x 21.5" x 4RU)</p> <p><b>Power:</b> AC wide ranging 100 -120 Vac or 220 -240 Vac 50 - 60Hz nominal -40 Vdc to -57 Vdc</p>
<p><b>OUTPUTS</b></p>	<p><b>Transport Stream Output:</b> 1 to 100 Mbit/s DVB ASI copper (3 as standard) DVB ASI optical (2 per card) DVB SPI (3 per card) SMPTTE 310 (2 per card)</p>	<p><b>PHYSICAL AND POWER</b></p>	<p><b>Operating Temperature:</b> 0°C to 40°C (32°F to 104°F) For fixed use only <b>Relative humidity:</b> 5 - 90% (non-condensing) <b>Cooling:</b> Fan assisted, front and side vented</p>
<p><b>MULTIPLEXING</b></p>	<p>Up to 8191 streams Full PID remapping Input PID tracking Internal over bit-rate protection High output stream utilisation</p>	<p><b>ENVIRONMENTAL CONDITIONS</b></p>	<p><b>Operating temperature:</b> 0°C to +45°C <b>Storage temperature:</b> -20°C to +70°C (-4°F to 158°F) <b>Relative humidity:</b> 5 - 95%</p>
<p><b>CONTROL</b></p>	<p>Control and set-up via nCompass Control or Multiplex Element Manager (see separate datasheets). Front panel interface for monitoring and basic set-up.</p>	<p><b>COMPLIANCE</b></p>	<p>CE marked in accordance with EEC low voltage and EMC directives. EN55022, EN50082-1, EN61000-3-2 for EMC and the EN60950 Safety Standard as a minimum where applicable. Also meets other relevant requirements and national standards derived from international requirements on which the above European Standards are based and FCC Pt 15B.</p>
<p><b>DIAGNOSTICS</b></p>	<p>Monitoring and redundancy via the Multiplex Element Manager and nCompass Control. Remote monitoring and diagnostics via SNMP. Front panel GUI for basic monitoring.</p>		

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