



MPEG-2 Multiplexer

MAIN CHARACTERISTICS:

- 1U Rack
- 4 DVB-ASI Inputs
- 2 DVB-ASI Outputs
- MPEG-SI Tables Insertion
- Complete Remote Control
- ISO/IEC 13818-1 compliant Output
- Totally compliant with DVB Head-end equipment and Conditional Access Systems
- PCR Restamping
- Perfect for any DVB application

APPLICATIONS:

- Fixed and Mobile Contribution/Distribution
- Cable TV head-ends
- Video-on-Demand
- Video-over-IP (with ext. network interface)
- Satellite Distribution
- DVB-T Transmissions
- Local Program Insertion
- Direct Satellite Broadcasting
- Digital Content Service Links
- High-quality Video Surveillance
- Digital News Gathering
- Remote Education

FEATURES AND OPTIONS:

- Highly Accurate and Cost Effective
- Extremely friendly LCD & Keyboard User Interface
- Up to 54Mbit/s Output Transport Stream bit-rate
- Automatic Local Configuration Storage and Recall after power failure

The MPEG-2 MULTIPLEXER is a user-friendly, high-quality, real-time MPEG-2 4-channels Multiplexer offered by Elettronika for the extremely demanding Digital Television market. It offers **great simplicity of operation** and an unsurpassed accuracy of processing which leads to a perfectly MPEG-2 compliant, **jitter-free**

Transport Stream. It is a perfect and reliable solution for Digital Video Broadcasting (DVB) in all **Satellite, Terrestrial and Cable applications**.

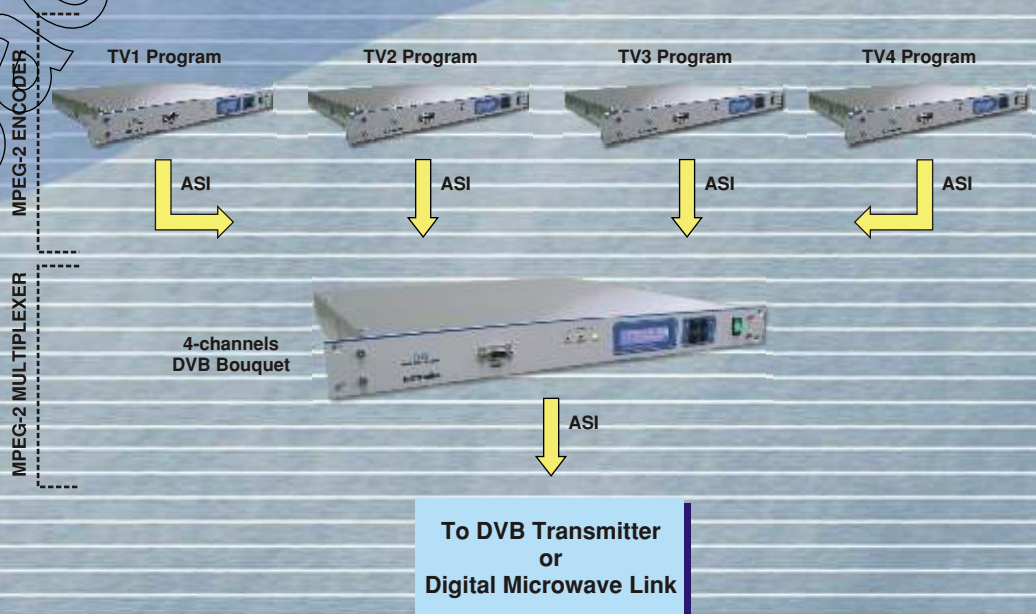
The MPEG-2 MULTIPLEXER is in a single 1U case containing a high-speed digital processing board which receives independent signals from four different Transport Stream sources and generates an output digital stream by means of a highly accurate analysis of each input and a complex multiplexing engine. **Four ASI inputs** are used to connect the MPEG-2 MULTIPLEXER

to external encoders and a dual ASI output is used to connect it to DVB-T/S/C modulators or to various types of network adapters with DVB-ASI input interface.

The excellent synchronization accuracy together with the **automatic input bit-rate locking system** let the MPEG-2 MULTIPLEXER achieve excellent performances with very simple operations.

The MPEG-2 MULTIPLEXER parameters are completely configurable by the user and can be saved in a preset which is automatically recalled at every re-start of the unit.

The MPEG-2 MULTIPLEXER is the perfect solution for any state-of-the-art audio-video applications, including digital TV, high-quality video surveillance, videoconference, remote education, news gathering, etc.





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Technical characteristics

INPUTS SECTION

| | |
|----------------------|--|
| TS Inputs | 4 x BNC 75 - DVB-ASI interface |
| Input Bit Rate | Up to 54 Mbit/s |
| Input TS Format | SPTS/MPTS |
| Mpeg-2 Packet Length | 188/204 byte with Automatic Adaptation |

OUTPUT SECTION

| | |
|------------------|--------------------------------|
| TS Outputs | 2 x BNC 75 - DVB-ASI interface |
| Output Bit Rate | Up to 54 Mbit/s |
| System Interface | ISO/IEC 13818-1 MPEG-2 |

TRANSPORT STREAM PROCESSING

| | |
|---------------------------|-----------------------------|
| Input Bit Rate Adaptation | Automatic |
| SI Tables | PAT - PMT - NIT - SDT - TDT |
| PCR Restamping | Active (can be disabled) |
| PCR Output Jitter | < ± 500 ns |
| Alarm Indications | TS input buffers overflow |

GENERAL

| | |
|----------------------------|---|
| Physical | Rack 19"-1U - 4kg |
| Remote Control Port | RS232 / RS485 |
| Remote Control Option | PSTN-GSM-Ethernet with external RCU equipment |
| Front Panel User Interface | LCD Display + Keyboard + Status LEDs |
| Power Supply Voltage | 90 - 250V _{AC} |
| Operating Temperature | 0 - 45°C |

These specifications are subject to change without notice

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