



## 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

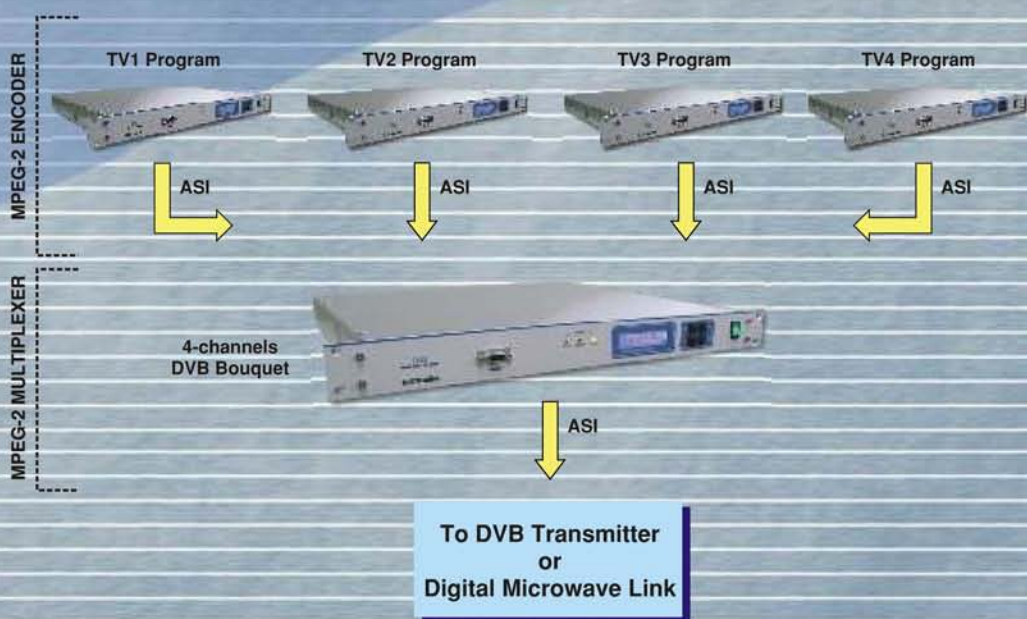
The MPEG-2 MULTIPLEXER is a user-friendly, high-quality, real-time MPEG-2 4-channels Multiplexer offered by Elettronika for the extremely demanding Digital Television market. It offers **great simplicity of operation** and an unsurpassed accuracy of processing which leads to a perfectly MPEG-2 compliant, **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 $\Omega$ - 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 $\Omega$ - 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	< $\pm 500$ 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 <sub>AC</sub>
Operating Temperature	0 - 45°C

*These specifications are subject to change without notice*



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