

TMX-2010

SmartStream Transport Multiplexer



The TMX-2010 Transport Multiplexer is Motorola's new generation modular solution for MPEG-2 service multiplexing, grooming, video bitrate transcoding, video splicing, IP data encapsulation, and encoder management for digital broadcast, satellite, and cable distribution. The TMX-2010 accepts MPEG-2 packetized transport streams via standard transport input interfaces, as well as UDP/IP multicast data Ethernet input for standards-based encapsulation within MPEG-2 transport. Optionally, Motorola's high-quality video bitrate transcoding algorithms can be utilized for remultiplexing input variable or constant rate SD and/or HD video services into a statistically multiplexed group of user-defined bandwidth. Also, standard-based digital program insertion (DPI) is supported through sophisticated MPEG-2 video splice processing. Motorola's intuitive TMX Element Manager control system allows for flexible selection from the input MPEG-2 services into one or more customized transport stream outputs.

The TMX-2010 provides standard output transport interfaces: DVB-ASI, GigE IP, DS-3, DHEI, and SMPTE-310 for interoperability across a variety of applications. The TMX-2010's option module architecture allows for flexible feature customization and future expandability.

The TMX 2010 provides MPEG-2 service multiplexing, grooming, video bitrate transcoding, video splicing, IP data encapsulation, and encoder management for digital broadcast, satellite and cable distribution.

HIGHLIGHTS INCLUDE:

- Modular 3-RU design
- MPEG-2 service multiplexing
- High-quality video bitrate transcode statmux
- DPI standards-based (SCTE 35/30) video splicing
- SE-1010/2000 encoder configuration and statmux management
- Up to 30 transport inputs
- Up to 6 transport outputs
- MPEG IP data encapsulation (DVS 311/A90)
- SD and HD video formats
- TMX Element Manager with simple drag-and-drop GUI
- MPEG PSI, ATSC PSIP, and DVB SI service information
- Option module architecture allows flexible system configuration



GENERAL SPECIFICATIONS

Input Module

RIM-ASI:	10 ASI
RIM-CMB:	2 ASI
	3 DHEI
	2 DS-3

Output Modules

ROM-STD:	2 ASI
	2 DHEI
	2 SMPTE-310
ROM-DS3:	2 ASI
	2 DHEI
	2 DS-3
ROM-IP:	2 ASI
	2 GigE IP

Other Modules

CPU:	366 MHz PowerPC
	10/100B-T E/net
MUX:	Multiplexer
TRC:	Transcoder

Input Rates

ASI:	up to 175 Mbps
IP Encapsulation:	up to 45 Mbps
MPEG over IP:	up to 6 Mbps

Output Rates

ASI:	up to 155 Mbps
DHEI:	26.97/38.8 Mbps
SPMTE-310:	19.39 Mbps
DS-3:	up to 42.4 Mbps
GigE IP:	up to 155 Mbps

Control

TMX-EM:	Java™ application
SNMP:	Control and health monitoring
SCTE-30:	Video splicing control

Physical

Dimensions:	48 cm/18.9" (W) x 43 cm/17" (D) x 13 cm/5.25" (H)
Weight:	13.6 kg/30 lbs unloaded 15.88 kg/35 lbs loaded
Mounting:	Rack stackable
Option Slots:	4
Fans:	Four 12 VDC, 60mm x 25mm, 25 CFM axial
Air Flow:	Front to back in push-pull configuration
Power:	200W

Other

Limited Warranty:	One year
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TMX ELEMENT MANAGER

- Input MPEG-2 transport stream analysis
- Simple drag-and-drop multiplex creation
- MPEG/ATSC/DVB service table generation
- PID remapping
- Service grooming
- Video transcode statmux group assignment
- SE-1010/2000 local encoder control and statmux management
- Service-based digital program insertion (DPI) configuration with associated external ad servers

