T-MUX ASI/IP™

Professional TS Multiplexer with 12 ASI Inputs and IP Outputs – Combines 2 to 12 MPEG-2 or H.264 Transport Streams, SPTS or MPTS, into IP Output Ports. Automatically Re-generates PSI and SI Tables. Supports PID Re-mapping, Service Filtering, and PSI/SI Editing. Able to Insert Electronic Program Guides, Conditional Access, and Other Data. Input Stream Bit Rates up to 100 Mbps per Channel. IP Output Bit Rates up to 800 Mbps Total for Both Ports Combined.

Features

- Multiplexes MPEG-2 or H.264 transport streams (SPTS/ MPTS)
- Inputs: 12 DVB-ASI inputs (maximum 100 Mbps per input)
- Outputs: Any number of MPEG-2 transport streams (SPTS/MPTS) via two IP outputs (up to 800 Mbps for both ports combined, UDP)
- Independent IP address output
- Complies with ISO13818 and EN 300 468
- Able to remove any channel of inputted PSI/SI
- Filters program information and specifies PIDs
- Re-defines PAT, PMT and other PSI/SI tables
- User data can be inserted
- Code rate monitoring function
- LCD front panel controls plus web-based management
- Transport stream packet size: 188/204 bytes, adaptive
- Supports PCR correction and PID re-mapping
- High precision PCR correction -- average PCR jitter is usually maintained at 20-60 ns
- Low latency -- less than 100 milliseconds
- PID filtering/PID redefining function for adding or deleting programs and modifying program PIDs
- Fault isolation -- if an error occurs in one transport stream input, it will not affect multiplexing of the other transport streams
- Ultra-low latency -- the time delay from multiplexer input to output is usually around one millisecond
- High bandwidth utilization: exceeds 99% when the code rate of input TS is constant
- PSI auto generation -- convenient for expanding EPG, SI, etc. through Ethernet
- Adaptive code rate
- Able to maintain constant total output code rate

Overview

Multiplexers combine many transport streams into a single multiplex transport stream, or “mux” for short. They also combine several multiplexes into a single remultiplex, or "remux".

The T-Mux ASI/IP is a professional MPEG-2 or H.264 transport stream multiplexer with 12 DVB-ASI inputs and GigE output.

The system combines or muxes incoming ASI transport streams, SPTS or MPTS, to MPTS. It analyzes the input MPTS and can also interpolate EPG (Electronic Program Guide), CA (Conditional Access), and broadcasting information data into the output data streams.

The IP output is via Independent Gigabit network interfaces, which output separate multiplexed MPEG-2 UDP transport streams.

The T-Mux ASI/IP automatically regenerates PSI and SI tables and features service/PID filtering and re-multiplexing. It can interpolate data, like the SI table which is generated by the external SI server, into output data streams in real time.

Applications

- IP re-multiplexing
- Adding or dropping services in IP TV
- PID filtering
- PSIP table modification

Computer Modules, Inc.
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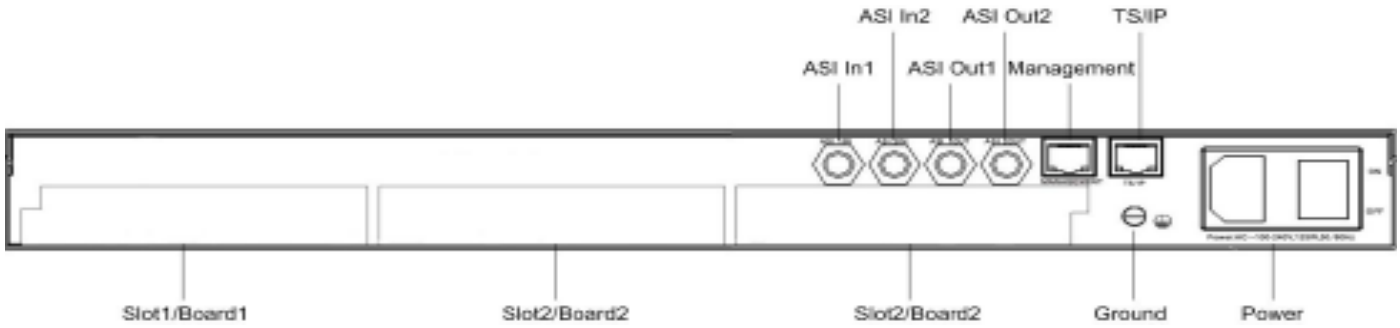
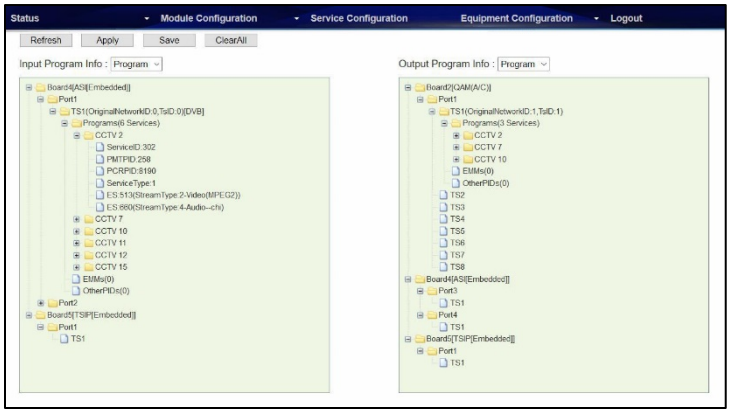
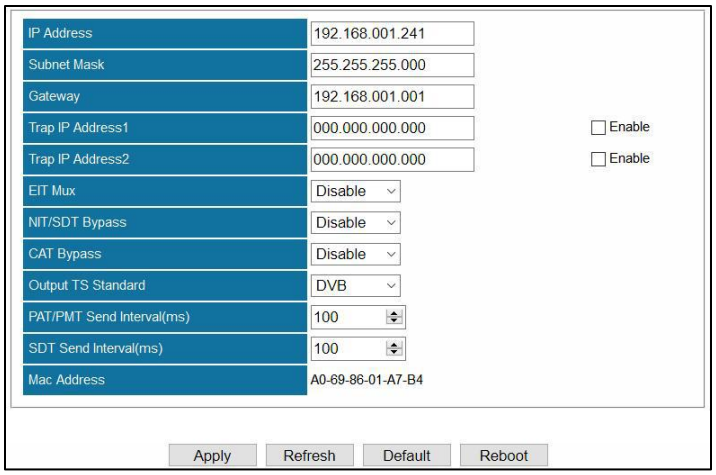
Inputs/Outputs



Sample GUIs



Service Configuration



Network Configuration

Specifications

Inputs

Inputs:	12 DVB-ASI inputs
Connectors:	BNC
Packet Length:	188 or 204
Input Bit Rate:	Up to 100 Mbps per each input
Codecs:	MPEG-2 or H.264 transport streams

Outputs

Outputs:	One GigE IP outputs
IP Output Protocol:	UDP
IP Throughput:	Up to 800 Mbps for both ports combined

Administration

Local:	Front panel operation, LCD display
Remote:	10/100 Mbps NMS Ethernet Port

Physical and Power

Dimensions:	18.98 x 16.14 x 1.73 inches (W x D x H) 482 x 410 x 44 mm (W x D x H)
Weight:	TBD
Power Supply:	180-250VAC, 50/60 Hz 1A
Operating Temperature:	0°C ~ +45°C (32°F ~ 113°F)
Storage Temperature:	-20°C ~ 80°C (-4°F ~ 176°F)
Conformities:	FCC, CE, RoHs

Ordering Info

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