INTERNATIONAL DATACASTING

Transport Stream Multiplexer (TSM) 2800

MPEG-2 DVB/ASTC TSM with Optional Smart Switching

The TSM-2800 provides extensive table processing and stream grooming and analysis capabilities for combining and manipulating streams. Support for opportunistic data and PSIP insertion provides operators with the ability to tailor streams for local broadcasts and fully utilize available bandwidth.

Features

- Smart switching option supports automatic redundancy switching
- Up to eight ASI input ports
- Input port #1 also supports SMPTE 310M
- Dual DVB-ASI and SMPTE 310M output
- DVB-ASI outputs mirror SMPTE 310M output
- SMPTE 310M interfaces operate at 19.392658 or 38.7853 Mb/s
- One ASI/SMPTE 325M flow control output for opportunistic data insertion
- Multiple time source options for time-table re-stamping (sources include SNTP or ATSC/DVB time-tables on input)
- 10 MHz and 1PPS inputs for NCR clock synchronization
- Easy to configure and manage
- Front panel control for local operation
- Web-based GUI
- SNMP remote management

Applications

ATSC and DVB Terrestrial Broadcast

Combines and grooms streams from multiple sources including encoders, video servers and IRDs into a single transport stream. PSIP/SI Insertion is supported with an external generator—ASI or Ethernet.

DVB Satellite

Combine and groom multiple services into a single output for improved transponder utilization.

Redundancy Switching

With the smart switch option, the TSM-2800 can automatically detect faults in the input streams and switch to an alternate source. This switch is performed on a packet boundary, causing little or no impact to the services.

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Capabilities

- Combines HDTV, SDTV, PSIP, data and multi-program transport streams into a single output multiplex
- Transport stream and channel re-branding, including network information
- Automatic PID conflict resolution
- Provides a universal "post insertion" capability for inserting external generated tables (PSIP, SI, RCS)
- Support for PSIP insertion over ASI or Ethernet
- Blocks irrelevant or unwanted programs and associated program data
- Configurable output data rate for transport stream re-rating
- NCR regeneration for DVB-RCS applications
- English or Spanish language user interface support

TECHNICAL SPECIFICATIONS—Transport Stream Multiplexer (TSM)

MODEL	DESCRIPTION
2, 4, 6 or 8 Inputs	1 RU Transport Stream Multiplexer licensed for selected number of active input ports
OPTIONS	
Smart Switch	Performs packet-synchronous switching based on stream content (used for redundancy switching) | Field Upgradeable

INPUT SPECIFICATIONS

# of Transport Streams	8
Interfaces	• 8 Max • 7 dedicated ASI • 1 selectable ASI or SMPTE 310M • 1 PSIP over Ethernet
ASI Data Rates	To 213 Mb/s, ASI burst or spread mode
SMPTE 310M Rates	19.39 or 38.78 Mb/s
Fault, Inputs and Outputs	• Isolates Short/Open Detect • Common DB-25 connector

OUTPUT SPECIFICATIONS

# of Transport Streams	1 repeated on dual ASI ports and dual SMPTE 310M ports, if activated
Interfaces	• 4 Max, configuration dependent • 2 dedicated ASI • 2 selectable SMPTE 310M • 1 dedicated ASI SMPTE 325M
ASI Data Rates	To 213 Mb/s, ASI spread mode
SMPTE 310M Rates	19.39 or 38.78 Mb/s
Fault, Inputs and Outputs	Summary Form C contact

INTERFACES

- Single 10/100 Base-TX Ethernet port (RJ-45)
- Web-based GUI with SNMP remote management

POWER REQUIREMENTS

Supply Voltage	85 to 265 VAC, 50 or 60 Hz autosensing
Power Consumption	<50 Watts

PHYSICAL PARAMETERS

Chassis	1RU rackmount
Dimensions (H, W, D)	4.5 cm x 43.2 cm x 39.4 cm (1.75" x 17" x 15.5")
Weight	5.6 kg (12.5 lbs.)

ENVIRONMENTAL CONDITIONS

Temperature	0° to 45° C (32° to 113° F)
Humidity	5% - 95% non-condensing
Shock	3.5g @ 10 ms duration
Vibration	0.5g @ 22 - 100 Hz
Air Flow	Side inlet to back forced air