



Transport Stream Multiplexer TSM/TSS-2800

MPEG-2 DVB/ATSC TSM with Optional Smart Switching (TSS)



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.

- 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.
- 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.
- 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 externally 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

VISION + INNOVATION



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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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • 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