

# 9780TSM-IPGE

## Compact IP Transport Stream Monitor



The 9780TSM line of remote probes is a complete software-based solution for compressed network monitoring. By monitoring the MPEG Transport Stream at strategic points within the distribution network, in conjunction with the industry leading VistaLINK® PRO NMS (Network Management System), the 9780TSM offers service providers the tools to continuously and effectively have the confidence that their IP signals within any IPTV, Satellite, terrestrial or cable network is being delivered properly.

The 9780TSM can monitor up to 32 transport streams. The 9780TSM can monitor MPEG-2/H.264/J2K/HEVC content and can in no time separate encoder errors from network delivery errors allowing the operator to act quickly and avoid down time. The industry leading Evertz® VistaLINK® PRO NMS offers a new dimension to TS monitoring by allowing a graphical customization of any measurement performed and a quick viewing of the different points in the system. It makes the 9780TSM probe system a valuable system in any operational environment.

### Features & Benefits

- Up to 2 GbE IP inputs
- IGMP v1, v2, v3 subscription and IP layer monitoring including MDI
- Real-time T-STD buffer analysis
- Transport Stream analysis
- Presence, Bitrate analysis, table rate analysis
- TR101290 Level 1, level 2\*, and partial level 3
- Complete TS and PID bitrate measurement from 100kb/s to 200Mb/s with settable limits
- Display of Transport Stream tree (Pid Tree View)
- Program Properties (Name, Program ID, etc.)
- Video/Audio/Data Component Properties (PID, Type, Codec, Bitrate, Resolution, Sampling Rate, etc.)
- Matching of PID assignment with pre-defined PID list and TSID verification
- Fully Integrated with the Industry leading Evertz® VistaLINK® PRO NMS
- Auto-Response Scripting Capability
- Comparing of same stream at different location in network
- SNMP-enabled (control and alarms for monitoring)
- Complete customization of status view and error report in VistaLINK® PRO
- Built-in frame controller for control

\* Only PCR accuracy and PCR repetition rate supported at this time. No jitter measurement

### Specifications

#### Inputs and outputs:

TR101290 P1	TR101290 P2	TR101290 P3 (DVB)	TR101290 P4 (ATSC)
1.1 TS_sync_loss 1.2 Sync_byte_error 1.3 Pat_error 1.4 Continuity_count_error 1.5 PMT_error	2.1 Transport error 2.2 CRC_error 2.3 PCR_error 2.4 PCR_accuracy_error 2.5 PTS_error 2.6 CAT_error	3.1 NIT_repetition 3.2 NIT_error 3.3 Unreferenced_PID 3.4 SDT_repetition 3.5 SDT_error 3.6 EIT_repetition 3.7 EIT_error 3.8 RST_repetition 3.9 RST_error 3.10 TDT_repetition 3.11 TDT_repetition	3.1 MGT_repetition 3.2 TVCT_repetition 3.3 CVCT_repetition 3.4 EIT_repetition 3.5 RRT_repetition 3.6 STT_repetition

#### Inputs:

- 2x GbE Ethernet data ports RJ-45

#### Monitored parameters:

- IP Measurements:
- MDI-Media Delivery Index DF: MLR (Delay Factor: Media Loss Rate)

#### Configuration & MGMT

- 1x GbE Ethernet control port RJ-45
- SNMP control and monitoring via VLPPO

#### Table presence and repetition:

- DVB SI repetition error (NIT, SDT, EIT, RST, TDT)
- ATSC PSIP tables repetition error (MGT, TVCT, CVCT, EIT, RRT, STT)

#### Template Checking:

- Bitrate Monitor
- TSID Matching
- PID List Matching

#### Electrical

- Input Voltage: Auto ranging 100 – 240VAC
- Power: Up to 120W
- EMI/RFI: Complies with FCC regulations for Class-A devices  
Complies with EU EMC directive

#### Physical

- Dimensions: 19"W x 1.75"H x 18.75" D
- Weight: 17lbs. (7.7kg)



### Ordering Information

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