TSMIP-10GE

IP Transport Stream Monitor

The TSM 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 TSM-IP10GE 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 TSM-IP10GE can monitor up to 256 transport streams. It can monitor MPEG2 or H.264 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 TSM probe system a valuable system in any operational environment.

Features & Benefits

- 10G inputs (over 2 SFPs)
- 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-define 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
- Dense Multi Service Ingest, NFS Server & Client

** 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 Unreferrenced_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_repetitiion

- 2x 10GE SFP input
- 2x RJ45 10/100/1000 data port
- 2x RJ45 10/100/1000 control port

Electrical:
Power: 920W

Ordering Information

Hardware	
TSMIP-10GE-2RU-V52	2RU High Bandwidth MPEG2/H.264 IP Transport Stream Monitor with IP inputs and clip storage of errored streams

Supported SFPs

SFP1G-TR13	SFP Optical Transciever, 1.25Gbs, 1310mm, SMF, 20km
SFP1G-TR15S	SFP Optical Transciever, 1.25Gbs, 1550mm, SMF, 40km
SFP1G-TR15H	SFP Optical Transciever, 1.25Gbs, 1550mm, SMF, 80km
SFP10G-TR13-A	SFP+ Optical Transceiver, 10Gbs, 1310nm, SMF, 10Km
SFP10G-TR15S	SFP+ Optical Transceiver, 10Gbs, 1550nm, SMF, 40Km

The Complete Solution Provider