

10G IP Core Monitoring Blade

VB330



The VB330 is the flagship embedded probe in Sencore's VideoBRIDGE product line. With line-speed 10G performance and a dual input port option, the VB330 can deliver monitoring and analytics of thousands of streams and a multitude of technologies in real-time and in parallel.

The VB330 is aimed at monitoring the full cross section of services commonly found in media-related network operations. It is a very flexible tool for monitoring network performance involving signal formats and areas as diverse as video IP multicast, OTT/ABR streaming, SRT transmissions, Cable TV Remote-PHY/L2TP/DEPI tunnel services, voice trunks and video-on demand unicast. Additional benefit is provided by deeper IP layer inspection including measuring Ethernet packet microbursts, PCAP recording and general traffic protocol inspection.

With the add-on ETSI TR 101 290 MPEG analysis options and OTT capabilities, the VB330 becomes an all-around QoS powerhouse supporting simultaneous monitoring of up to 2000 streams/services with results viewable in the web UI and alarms delivered by SNMP or XML API. Network-wide results from the VB330 and other probes can also be collected and aggregated in the VideoBRIDGE Controller Server.

The ruggedized embedded hardware of the VB330 reduces power usage compared with server-based monitoring tools and provides an extended operating timeframe and lifetime. Up to two VB330 blades can reside in the VB300 or VB300-DC chassis.

Key Features

- Continuous monitoring of 10G+ bandwidth or 2000 IP streams
- Monitor SRT streams and up to 500 OTT/ABR streams
- Massive ETSI TR 101 290 (ETR290) Priority 1, 2, and 3 MPEG monitoring with up to 400 analysis engines
- Visual graphing of jitter, packet loss and bandwidth performance
- Protocol hierarchy view with bandwidth and packet count statistics for each active video interface
- Functionality for relaying any IP multicast monitored to a different IP destination for further analysis or recording (Remote Data Path - RDP)
- Built-in Remote-PHY/L2TP/DEPI tunnel wrapper support for seamless DOCSIS-based distribution monitoring
- IGMPv2/v3 protocol logging and analysis framework
- SCTE35 analysis and monitoring option to log messages, alarm on missing inserts and inspect syntax
- Flexible template based alarming system to allow custom configuration alarm parameters on a per-TS level
- PCAP capture of raw IP data for further analysis using Wireshark or similar
- Microbursting jitter analysis for monitoring total 10G trunk load
- IEEE 802.1Q VLAN tagging support
- Thumbnail decoding of multicast/unicast IP transport streams
- SMPTE 2022 FEC support
- Alarm on changes to TOS/DSCP and TTL for detection of changes in network prioritization
- Time loss distance measurements according to RFC3357
- Full-Service Monitoring of any network device via built-in ICMP and HTTP query agents
- Searchable alarm lists and alarm forwarding to 3rd party systems via SNMP TRAP via up to 3 unique destinations
- NTP client time synchronization support according to RFC2030
- Easy web-based software and license upgrade
- XML-based configuration save and retrieval via web
- Powerful and openly available XML-based External Integration Interface (Eii) for 3rd party integration
- Condensed mosaic thumbnail view of all services monitored
- Full MPEG, DVB and ATSC table support
- PSI/SI/PSIP table display – high and low level including hex dump and table download
- Proprietary VideoBRIDGE tests of Conditional Access systems

