

VB12 RUGGEDISED BROADCAST PROBE

With full ETR101290 analytics and support for all modern media transportation codecs, the VB12 is built for real-world use. Loss distance and detailed jitter values give accurate readings of network performance.



The ability to monitor 10 streams (upgradeable to 50) with full ETSI TR 101 290 analysis and alarming makes the portable VB12 invaluable for field use.

Its ruggedised exterior and fan-less design give engineers the perfect fault-finding tool when roaming in the network or for permanent placement of a unit in harsh environments.

With full ETR101290 analytics and support for all modern media transportation codecs, the VB12 is built for use by roaming specialists needing full analytics in a remote location.

With the patented MediaWindow™, historical measurements can be easily accessed for meaningful visualisation of media flow in an IP network. The vital parameters no-sync, packet loss and packet jitter are monitored continuously for full network control.

Picture: the VB12 unit with both SFP based Optical GigE or Electrical auto-switching 10/100/1000-T Ethernet interfaces, separate 10/100-T management interface, RS232 based USB connector for setup and status LEDs.

Confidence monitoring is further enhanced by monitoring of all ETSI TR 101 290 parameters, bandwidth overflow/ underflow and signal loss. Based on a highly sophisticated threshold template system alarm granularity can be set to reflect actual status, irrelevant alarms being effectively masked.

The IP-Probe can be utilised for a multitude of remote functions. One such is the ability of the Broadcast Probe to store alarm-triggered TS recordings directly to its internal memory. The recordings can subsequently be accessed directly via the probe's built-in web interface. Each VB12 runs an integral HTTP server with the client as a web browser, so no need to install custom software on computers needing access to the measurement data. The VB12 comes with a ruggedised scratch resistant coated finish in order to stand up to "life on the road."

TECHNICAL FEATURES

- 2x SFP+ optical 10G ports
- 1x 10/100/1000-T Ethernet management port
- 1x 1PPS clock input
- Built-in USB to RS232 converter
- CEC chassis with dual built-in 100-240V AC power supply, providing redundancy
- Real-time monitoring of thousands of multicasts/unicasts
- Monitors Transport Stream into IP according to ETSI TS 102 034
- Microsoft MediaRoom™ X-bit RTP header extension support
- IGMPv2 and IGMPv3 SSM support
- v802.1Q VLAN tagging support and detection
- Thumbnail decoding of MPEG2 and MPEG4 streams, SD and HD
- Packet jitter and media loss measurements
- Configurable alarm handling including severity level definitions
- RTP dropped, duplicate and out-of-order measurements
- Type of Service (TOS) and Time to Live (TTL) displaying
- Time loss distance measurements (RFC3357)
- MediaWindow™ visualisation technology
- FSM™ monitoring of middleware services
- IGMP monitoring and logging
- Advanced real-time IP protocol breakdown and analysis with individual bandwidth and frame size displaying
- Alarm triggered recording of a multicast/unicast or selectable service from any input
- RDP™ of transport stream or selected service
- Searchable alarm lists
- Built-in web-based management with access control
- Intuitive GUI using patented visualisation techniques for ease of system overview: MediaWindow and microETR (ETR290 option)
- Optional central management via VideoBridge Controller server
- SNMP multi-destination trapping
- Eii™ External Integration Interface for easy integration into any 3rd party OSS / NMS system
- Compatible with Skyline Dataminer, Cisco™ VAMS/CMM, Ericsson nCompass and more
- NTP client functionality (RFC2030)
- DHCP client support (RFC2131)
- Remote software and license upgradeable

PRODUCT ORDERING CODE

VB12 Ruggedised portable IP/ASI probe. 10/100/1000-T or SFP GigEthernet. ASI in/out. Built in ETSI TR 101 290 Analysis and IP Monitoring/analysis

PRODUCT ORDERING CODES SOFTWARE

AET-OPT Advanced Ethernet Tools. Licence for VB12/VB120 factory ordered
 AET-UPGR Advanced Ethernet Tools. Upgrade licence for VB12/VB120
 ETR290-OPT Full real-time ETSI TR 101 290 alarming and analysis (Pri 1, 2, 3) for additional Ethernet transport streams in parallel, factory ordered

OPTIONS INCLUDED

IP ETR290

SOFTWARE OPTIONS

AET STRM T2MI OTT SCTE35

RELATED PRODUCTS

VBC

TECHNOLOGIES

MediaWindow FSM microETR RDP Eii OTT Engine

PHYSICAL AND ENVIRONMENTAL SPECIFICATIONS

Operating temperature: 0°C to 45°C

Storage temperature: -20°C to 70°C

Operation humidity: 5% to 95% non-condensing

CONNECTOR SPECIFICATIONS

10/100/1000-T GigE input: RJ-45

10/100/1000-T Ethernet management: RJ-45

SFP for optical networks

ASI input: 75 ohm HD-BNC

ASI output: 75 ohm HD-BNC

Serial port: USB Type A connector

AC power: IEC 320 connector

POWER SUPPLY REQUIREMENTS

Input voltage: 100 to 240V AC

Power required: 15VA

Power dissipated: maximum 15W

MECHANICAL SPECIFICATIONS

W x H x D = 115 x 56 x 385 mm **Text**

Weight: 1,5 kg

COMPLIANCE AND SAFETY

Compliant to requirements for US and Canada. Designed for CSA approval. Bridge Technologies continuously improves on products and reserves the right to modify the specifications without prior notice.

EMC: EN 55022 CISPR 22 Class A, EN 55024 CISPR 24, EN 61000-3-2/ IEC 61000-3-2, EN 61000-3-3/ IEC 61000-3-3, 47 CFR, Class B SAFETY: EN 60950-1, IEC 60950-1 Edition 2.0

ENVIRONMENTAL COMPLIANCE POLICY

Bridge Technologies co as is committed to fulfilling all statutory environmental requirements in accordance with the WEEE scheme.

In order to prevent the generation of hazardous waste, Bridge Technologies undertakes the responsibility for taking back and recycling electrical and electronic equipment.

This will provide incentives to design electrical and electronic equipment in an environmentally more efficient way which takes waste management aspects fully into account.

The BRIDGE, Bridge Technologies and BRIDGETECH name, logo and all other related logos are registered trademarks belonging to Bridge Technologies Co AS.

Bridge Technologies Co AS.
 Address: Bentsebrugata 20, NO-0476 Oslo, Norway.
 Phone: +47 22 38 51 00. Web: www.bridgetech.tv
 VAT NO987002808MVA, DUNS: 7303 64945

ETR290-UPGR	Full real-time ETSI TR 101 290 alarming and analysis (Pri 1, 2, 3) for additional Ethernet transport streams in parallel, upgrade licence
STRM-OPT	Additional 10 streams for VB1 series Probe (up to 50 streams total) factory ordered
STRM-UPGR	Additional 10 streams for VB1 series Probe (up to 50 streams total), upgrade
T2MI-OPT	DVB-T2MI Encapsulation Synchronisation monitoring option, factory ordered
T2MI-UPGR	DVB-T2MI Encapsulation Synchronisation monitoring option, upgrade
OTT-ENG-OPT	1 engine w/active testing of 1 channel or 10 channels round robin (up to 5 engines or 50 channels round robin in total) factory ordered. Disables TS recording
OTT-ENG-UPGR	1 engine w/active testing of 1 channel or 10 channels round robin (up to 5 engines or 50 channels round robin in total). Disables TS recording
SCTE35-OPT	SCTE35 Signaling Analysis and Logging. Licence for VB12/VB120 factory ordered Requires SW v5 and ETR Engine
SCTE35-UPGR	SCTE35 Signaling Analysis and Logging. Upgrade licence for VB12/VB120 Requires SW v5 and ETR Engine