



BRIDGETECH products adhere to The Global Standard of Digital Television.



The VB220 is an integral part of the breakthrough Full Service Monitoring concept.



Return Data Path enables sourcing of the remote signal back to the NOC or HeadEnd for detailed analysis. Reduces OPEX through fewer truck rolls and on-site visits.

The VB330 Probe is the flagship in the VideoBRIDGE product range. Equipped with up to two 10GB Ethernet inputs it is capable of monitoring thousands of streams in backbone networks and central head-ends. VB330 utilises the same visual and intuitive approach to monitoring and analytics as other VideoBRIDGE probes.

Measurement analytics are available via easy drill-down functionality and the patented Bridge Technologies MediaWindow™ technology renders monitoring and analysis of the complex much simpler. Three full VB330 Probes can be fitted into the EC 1RU chassis, offering the highest performance to form-factor available.

At an early stage in digital television history Bridgetech developers recognised the need for easy-to-interpret monitoring GUIs, as the complexity in modern media transmission systems is formidable. Performing advanced measurements is not enough, the data must be presented in a way that ensures important error incidents are not hidden by irrelevant details. Development has led to several Bridgetech monitoring patents, based on experience from large monitoring systems worldwide. This technology is essential for surveillance of 10GB media ports.

When so much monitoring capacity is packed into one unit, redundancy becomes a serious issue. The chassis used to house the VB330 therefore includes a dual power supply, minimising the risk of losing monitoring due to power supply failure. Furthermore, as goes for all VideoBRIDGE probes, dedicated telco grade hardware is used throughout, to ensure the longevity and stability needed for professional operation.

The VB330 can be controlled directly via HTTP using a standard WEB browser, or it can be part of a VideoBridge Controller system which includes other VideoBRIDGE devices. This makes the 10GB VB330 the logical extension of the Bridgetech product suite.

FEATURES INCLUDE:

- 2x SFP optical 10GB ports (one enabled by default)
- 1x 10/100/1000T Ethernet management port
- 1 x 1PPS clock input
- Built-in USB to RS232 converter
- Blade based hardware for use with rack mount chassis
- Up to 3 blades can be placed in one 1"RU chassis
- 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 including the MediaWindow™
- 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 Cisco™ VAMS/CMM
- NTP client functionality (RFC2030)
- DHCP client support (RFC2131)
- Remote software and license upgradable

The screenshot displays a network management interface with several panels. The top panel shows traffic statistics for various protocols (IPv4, TCP, UDP, etc.) with columns for Cur bitrate, Max bitrate, Min bitrate, Frames, Frames %, Min fcs, and Max fcs. The 'Data/video (eth0)' panel shows TX/RX bitrate and VLAN tagged frames. The 'Parameters' panel is set to 'Setup' and shows 'Joined multicasts' with a table of channels.

I	Thumb	Name	Signal	Page	Mapping	Net bitrate	GC errs	Pids	Syncb errs	Curr bitrate	Min bit
1		NRK_1	38db	1	7TS/UDP	6.90 Mbps	104	7	0	6.90 Mbps	10.30 k
2		NRK_2	38db	1	7TS/UDP	7.05 Mbps	95	7	0	7.05 Mbps	10.10 k
3		TV2_NORWAY	38db	1	7TS/UDP	7.99 Mbps	14565	6	0	7.99 Mbps	9.22 kt
4		TVNORGE	14db	1	7TS/UDP	5.26 Mbps	973	6	0	5.26 Mbps	8.97 kt
5		SVT1	77db	1	7TS/UDP	4.42 Mbps	268172	8	0	4.42 Mbps	55.25 k
6		DR1	77db	1	7TS/UDP	5.47 Mbps	21836	8	0	5.47 Mbps	56.98 k
7		DR2	77db	1	7TS/RTP	2.38 Mbps	6120	8	0	2.38 Mbps	57.50 k
8		SVT2	77db	1	7TS/UDP	2.49 Mbps	267902	9	0	2.49 Mbps	57.50 k
9		NRK_3	38db	1	7TS/UDP	4.70 Mbps	94	7	0	4.70 Mbps	10.30 k
10		FEM	38db	1	7TS/UDP	5.19 Mbps	15128	5	0	5.19 Mbps	8.73 kt

ENVIRONMENT SPECIFICATIONS:

Operating temperature: 0°C to 45°C
 Storage temperature: -20°C to 70°C
 Operating humidity: 5% to 95% non-condensing

CONNECTOR SPECIFICATIONS:

10Gbit Ethernet port A: SFP+ module
 10Gbit Ethernet port B: SFP+ module
 10/100/1000T management: RJ-45
 Initial setup: USB Type A

CI SUPPLY REQUIREMENTS

Power dissipated per VB330+ module: 40W
 Chassis input voltage: 100-240VAC
 Chassis max. power requirement: 2VA@220VAC
 Chassis max. power dissipated: 150W

MECHANICAL SPECIFICATIONS:

Standard 19" IRU rack-mount
 W x H x D: 483 x 43 x 400 mm
 Weight: 8,2 kg fully populated

CONTROL AND MANAGEMENT:

Basic setup/control through RS232 via USB
 Remote access through HTTP or TELNET
 Optional control via VBC Server

COMPLIANCE:

CE-marked in accordance to low voltage directive (LVC) 73/23/EEC and EMC directive 89/336/EEC. Compliant to requirements for US and Canada. Designed for CSA approval.

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