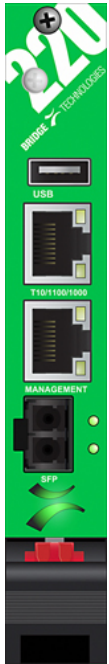


ATV-220

Digital Media Monitoring Probe Special Edition for Appear TV Installations



The ATV-220 PROBE is similar to the flagship VB220 controller blade for all applications in any network where digital video is carried across an IP infrastructure. Built with a form factor for deployment in Appear TV's range of chassis, the ATV-220 provides an unique capability of reducing the infrastructure needs in any HeadEnd or remote location.

Available for Appear TV's 4ru and 1ru chassis, the ATV-220 offers a highly-developed efficient solution for digital media monitoring either as part of a complete monitoring system, or when used with third-party network management systems. Embodying a range of market-leading technologies the ATV-220 gives engineers a complete and detailed view into the data stream.

"Accurate and timely monitoring information is essential for any digital media operation, so a form factor that makes it easy to integrate Bridge Technologies probes into our installations is very welcome," said Carl Walter Holst, CEO of Appear TV.

The ATV-220 can, as the standard VB220, be specified to order with all the options available in the comprehensive Bridge Technologies product line such as:

- up to 8 advanced ETR290 engines for detailed analysis
- Gold TS Protection for media streams
- up to 5 OTT engines for analysis and continuous monitoring of manifest and playlist syntax
- DVB-T2MI parsing and alarming; optional second GigaBit interface
- full SCTE-35 signaling analysis.

All these options in addition to the standard features of 260 streams monitoring, the built-in Eii (External integration interface), and the award winning web GUI of the device.

The ability to monitor continuously 260 streams makes the ATV-220 blade a powerful tool. With full support for both the MPEG-2 TS and RTP encapsulation standards carrying all modern coding formats, the ATV-220 is perfect for network core or regional site use.

This can be an invaluable remote helpmate for any network engineer attempting multicast detection on multiple VLANs or in the process of IGMP tracking. Fault finding in complex IP based broadcast networks just got a lot easier.

The monitoring of critical parameters such as loss distance measurements and detailed jitter values will give operators invaluable and precise feedback of network performance. With the patented MediaWindow™ historical data can be easily accessed for meaningful visualisation of media flow in IP systems. Whether establishing or modifying service settings on complex routers and switches, the ATV-220 facilitates the whole process.

The power of confidence monitoring is further enhanced by continuous monitoring and alarming for vital parameters like bandwidth overflow/underflow, RTP errors 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 unique FSM™ framework also allows checking and continuous monitoring of middleware and network services vital to customer QoE.

The ATV-220 takes up only one slot in an Appear TV chassis, resulting in a very compact monitoring solution particularly suited for systems that use IP distribution to regional nodes. The ATV-220 monitors IP via it's optical and electrical 10/100/1000T Ethernet interface for simultaneous monitoring, enabling a unique service comparison mechanism that makes it easy to validate correct local insertion at regional head-ends.

SNMP trapping and XML export enable the ATV-220 to be implemented in any NMS system with alarm generation; either directly from the probes themselves, or via the VBC server for advanced alarm correlation and filtering. Each ATV-220 contains the Eii (External Integration Interface) API for seamless and easy integration into any 3rd party system.

Each ATV-220 runs a HTTP server with the client as a web browser, so no need to install custom software on computers needing access to the measurement data. Modern web 2.0 techniques such as AJAX are used to facilitate advanced interface behaviour in a standard web browser.

TECHNICAL FEATURES

- 1x 10/100/1000T Ethernet data port
- 1x SFP GigE port
- 1x 10/100/1000T Ethernet management port
- Built-in USB to RS232 converter with USB A connector
- Blade based hardware for use with Appear TV rack mount chassis types - 1ru and 4ru
- Stream selection allows large thumbnail and audio level bar displaying for one service from any input
- Real-time monitoring of 260 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
- 802.1Q VLAN tagging support and detection
- Thumbnail decoding of MPEG-2 and MPEG-4 streams, SD and HD
- RTP dropped, duplicate and out-of-order measurements
- Type of Service (TOS) and Time to Live (TTL) displaying
- Time loss distance measurements (RFC3357)
- FEC analysis (COP3)
- 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 from any input
- Searchable alarm lists

OPTIONS INCLUDED

AET

SOFTWARE OPTIONS

AEO ETR290 BULK-ETR290 T2MI OTT SCTE35
FLASH32 VB2G2

CHASSIS OPTION

Chassis 4RU or 1RU Appear TV

RELATED PRODUCTS

VBC

TECHNOLOGIES



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.

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Appear TV 4ru chassis with ATV-220 blade

- 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)
- Gold TS Protection™
- Remote software and license upgradeable

ETSI TR 101 290 OPTION FUNCTIONALITY

- Full real-time ETSI TR 101 290 alarming and analysis (Pri 1, 2, 3), one transport stream per input monitored in parallel
- Configurable round-robin functionality for each ETSI TR 101 290 analysis engine
- Conforms to both DVB and ATSC specifications
- Table and descriptor parsing of PSI/SI and PSIP presented as table summary and full table breakdown (including hex dump)
- EPG analysis (EIT p/f and schedule)
- Bitrate monitoring and alarming (TS, service and PID level)
- Monitoring of vital CA parameters
- Compare view for comparison of transport streams and services across different interfaces
- Sophisticated threshold template system for detailed alarm handling control at transport stream, service and component level
- Monitoring of demodulator parameters (demodulator option)
- Scheduled alarm masking

PRODUCT ORDERING CODE

ATV1-220	IP-Probe blade for AppearTV 1ru Chassis w/Gbit electrical/optical inputs
ATV4-220	IP-Probe blade for AppearTV 4ru Chassis w/Gbit electrical/optical inputs

PRODUCT ORDERING CODES SOFTWARE

VB2G2-OPT	Second 1Gbit DATA interface Option. License factory ordered - requires sw v5.1 or later
VB2G2-UPGR	Second 1Gbit DATA interface Option. License upgrade - requires sw v5.1 or later
ETR290-OPT	ETSI TR 101 290. Licence for VB220 factory ordered
ETR290-UPGR	ETSI TR 101 290. Upgrade licence VB220
T2MI-OPT	DVB-T2MI Encapsulation Synchronisation monitoring option, factory ordered
T2MI-UPGR	DVB-T2MI Encapsulation Synchronisation monitoring option
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 if HW1 - HW3
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 if HW1 - HW3
SCTE35-OPT	SCTE35 Signaling Analysis and Logging. Licence for VB12/VB120 factory ordered - requires v5 sw and ETR Engine
SCTE-UPGR	SCTE35 Signaling Analysis and Logging. Upgrade licence for VB12/VB120 - requires v5 sw and ETR Engine
FLASH32-OPT	Flash Storage 32GB Option. Factory ordered only - requires v5.1 sw