MDI
MEDIA WINDOW™

The RFC4445 based MDI Media Window displays content loss and network jitter in a comprehensive "flow" view for correlation and status at-a-glance

The VB110 IP-PROBE from BRIDGETECH is a module for insertion in the rack-mountable VB200 1RU chassis. The unit provides continuous monitoring of TV signals in any network that carries IPTV. MPEG-2, h.264/AVC and WM9/VC-1 packets are detected and analyzed and with full MDI support in the innovative MDI Media Window (pat.pending). The Current and historical status of your service can now be easily interpreted and monitored. A single VB110 IP-Probe in a VB200 chassis is an ideal starting point, making it a cost-effective and compact solution particularly suitable for monitoring fibre and xDSL IPTV networks at the network edge.

Waiting until your customers ring in or cancel their subscription is an example of reactive fault management. The VB110 IP-PROBE offers cost-effective proactive fault management by continuously supervising the signal quality of TV multicasts at the network edge. By deploying the VB110 IP-PROBES as part of a 24/7 management model it is possible to discover and actively manage potential problems. Allowing your customers to discover problems before yourself will result in serious damage to customer QoE, which in turn means the bottom line.

Quality reports are gathered on a regular basis and can be used as proof of successful carriage to demarcation points as part of a signal delivery or when used in contribution links over IP. By using the VB110 IP-PROBE it is possible to identify whether the TV multicasts were valid before entering the partner customer core IP router.

The VB200 chassis has a DC 48v power supply option, making it ideal for cost effective monitoring and measurement at DSLAM sites or regular network POPs.

Critical quality parameters such as IP jitter and MPEG-2, h.264/AVC and WM9/VC-1 packet loss are detected and logged automatically. All MDI parameters are supported and individual threshold levels can be set for each monitored channel. Each IP-PROBE card runs an HTTP server. The operator accesses all parameters by opening a web browser towards the IP-PROBE. Basic setup can be performed locally through RS232 or remotely via TELNET. Central management and alarm/statistics collection are achieved by deploying the VBC Server software.

- 1x 10/100 Mbps Ethernet monitor port
- Intuitive web-based user interface
- Analysis of 10 IP multicasts per unit
- Analysis of video and network parameters
- MPEG-2, h.264/AVC and WM9/VC-1
- RFC4445 MDI measurement and analysis
- RFC4445 based MDI Media Window (patent pending)
- PSI/SI analysis
- Optional central management via VBC Server
- Video and audio output with MPEG2 decoding
- Local RS232 port for initial setup

→ RDP
RETURN DATA PATH™

Return Data Path enables sourcing of the remote signal back to the NOC or HeadEnd for detailed analysis. Limits travel expenses and need for remote engineering.
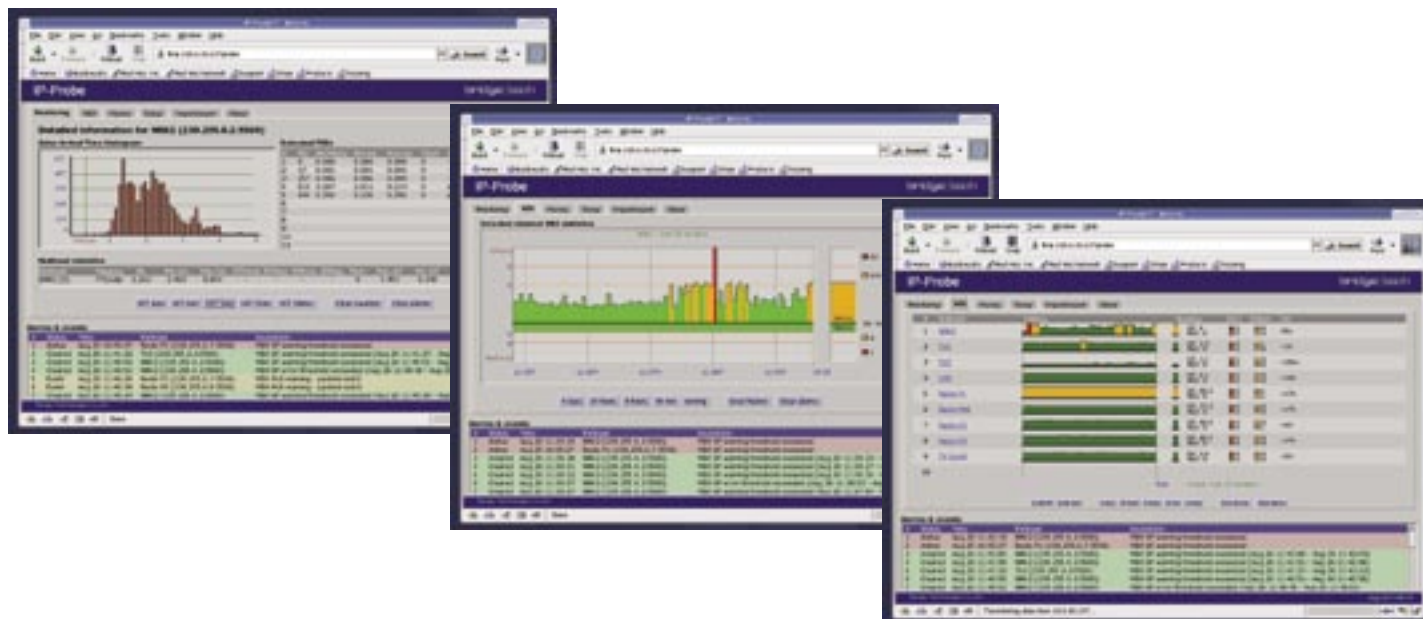
ANALYSIS FEATURES:

- Analysis of up to 10 IP multicasts in parallel
- Channel name/multicast address mapping
- Protocol mapping details
- Max, min, average bandwidth
- PID detection, PSI/SI analysis
- IAT Packet jitter measurement and drops
- RFC4445 MDI measurement re. IETF Draft
- RFC4445 based MDI Media Window (patent pending)
- MPEG2 decoding of selected channel
- h.264/AVC analysis
- WM9/VC-1 analysis
- RTP Packet measurement and monitoring
- SNMP support and detailed MIB
- Access control with login
- XML Alarm, event and setup import/export

NETWORK SPECIFICATIONS:

10/100 Base-T Ethernet (IEEE 802.3)

MECHANICAL SPECIFICATIONS:

Standard 19" rack-mount (1RU)
W x H x D: 483 x 43x 400mm
Weight: 4,2 kg fully populated

CONTROL AND MANAGEMENT:

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

ENVIRONMENT SPECIFICATIONS:

Operating temperature:	0oC to 50oC
Storage temperature:	-20oC to 70oC
Operating humidity:	5% to 95% non-condensing

CONNECTOR SPECIFICATIONS:

10/100 Ethernet input:	RJ-45
RS232 port:	9-pin male D-sub
AC power:	IEC 320 connector

POWER SUPPLY REQUIREMENTS:

Input voltage:	100 to 240V AC
Power required:	20 VA, typical @ 220VAC
Power dissipated:	Maximum 50W

COMPLIANCE:

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

Specifications and product availability are subject to change without notice.

BRIDGE Technologies

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