

# AudioCodes CPE & Access Gateway Products

## MediaPack™ 40x BRI VoIP Gateway



- Affords an easy, cost-effective way for businesses using ISDN to migrate to Voice over IP
- Enables configurations of up to 4 BRI ports (8 voice channels)
- Configurable as either NT or TE side for interfacing ISDN (CO) or PBX
- Supports voice and fax transmission
- Allows Life-line & PSTN Fallback for assured connectivity in event of power failure
- Provides a second data port for LAN connectivity
- Utilizes AudioCodes VoIPerfect™ technology for voice quality excellence
- Proven integration with leading PBXs, H.323 Gatekeepers and SIP Servers
- Offers remote provisioning, maintenance and troubleshooting

**MediaPack™ BRI** VoIP Gateways offer SMBs and SOHOs a simple, cost effective method to migrate to Voice over IP, by connecting legacy PBX systems with BRI lines to IP networks. Incorporating AudioCodes' innovative Voice over Packet technology, the MediaPack™ 40x enables rapid time-to-market and reliable cost-effective deployment for next-generation networks.

The MediaPack™ BRI VoIP Gateway is based on AudioCodes VoIPerfect™, underlying, best-of-breed, media gateway core technology in its product portfolio. The MediaPack™ 40x is fully interoperable with multiple vendor PBXs, Softswitches, gatekeepers, proxy servers, gateways, IP phones, session border controllers and firewalls.

### **SURVIVABILITY MECHANISMS**

The MediaPack™ 40x can be deployed in diverse network topologies, with flexible NT/TE configuration, port granularity that spans up to 8 voice channels and a combination of survivability mechanisms:

- 1) Scale up to 4 BRI lines (up to 8 voice channels)
- 2) Scale up to 4 BRI lines plus a fifth BRI interface for life-line
- 3) Scale up to 2 pairs of BRI lines supporting PSTN fallback in case of power failure

### **INTEROPERABILITY**

MediaPack is a member of AudioCodes' complete family of stand-alone VoIP Gateways. AudioCodes has invested significant effort in complying with the leading and evolving VoIP standards. The support of multiple VoIP control protocols has been tested with leading Softswitch vendors. As a provider for OEMs, System Integrators and Network Equipment Providers, AudioCodes offers interoperability-rich products.

### **BENEFIT FROM EXTENSIVE EXPERIENCE**

Utilizing AudioCodes' VoIPerfect™ core architecture, and gaining from its accumulated experience in providing IP telephony solutions, the MP-40x series combines superior voice quality and "state of the art" features for end users, such as T.38 Fax Relay and G.168-2002 compliant Echo Cancellation. Low bit-rate vocoders (voice coders) can be used simultaneously on both telephony ports to save valuable bandwidth. The "Voice over Data" prioritization algorithm prevents degradation in voice quality even during large data transfers.

### **INTEGRATED ROUTER CAPABILITIES**

The MediaPack™ 40x series serves as a data router, for connecting a PC or LAN hub/switch, including NAT, DHCP, PPPoE and additional data functions required for simultaneous telephony & internet usage.

### **MEDIAPACK™ 40x KEY FEATURES**

- Spans a range of 1 to 4 BRI lines
- Selected, multiple LBR coders per channel
- Complies with H.323 and SIP control protocols
- Comprehensive support for supplementary services
- Integrated Router capabilities consisting of DHCP, PPPoE, NAT
- QoS features comprising TOS/DiffServ, VoIP over data prioritization algorithm
- Web Management for easy configuration and installation

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### SPECIFICATIONS

#### Interfaces

ISDN BRI Interface	Up to 4, ISDN BRI S/T, RJ45 connectors Up to 8 voice sessions NT or TE mode configurable per port Point-point and Point-multipoint "Life-line" option, automatic cut-through of a single S/T interface in case of power failure Fallback option, automatic cut-through, on a port to port basis, in case of power failure
Network Interface	WAN and LAN connection, dual 10/100 Base-T, RJ45
Serial RS-232 port	DB-9 connector

#### IP Connectivity

Routing Function	Embedded Router RIP V1/V2 and Static routing Access Control List DHCP client/server NAT Traffic Scheduling and Rate Limiting Packet Fragmentation PPPoE client DNS resolution
IP Transport	RTP/RTCP per IETF RFC 3550 and 3551
QoS	TOS/DiffServ Tagging

#### Voice, Fax, Modem

Voice over Packet Capabilities	G.168-2002 compliant Echo Cancellation, VAD, CNG, Dynamic programmable Jitter Buffer, modem detection and auto switch to PCM
Voice Compression	G.711, G.723.1, G.726, G.729A
Fax over IP	T.38 compliant Group 3 fax relay up to 14.4 kbps with automatic fallback to PCM or ADPCM

#### Signaling

Interface Signaling	ISDN (Euro ISDN EDSS-1), ETS 300 012-1, ETS 200 102-1, ETS 300 402-1, ETS 300 403-1
National Variants	German ISDN, French, Netherlands, Sweden, Norway, Finland, Switzerland, Italy, Spain, Belgium
ISDN Tunneling	ISDN over IP per H.323 M.3
In-band Signaling	DTMF Transport, Call Progress Tones
VoIP Protocols	H.323 (V4), SIP (RFC 3261)

#### Provisioning

TFTP for software and configuration download  
Remote management using Web browser  
RS-232 and TELNET for configuration and monitoring

#### Physical

Power	100-240 VAC/47-63 Hz
Environmental	Operational: 5 to 40° C 41 to 104° F Storage: -25 to 70° C -77 to 158° F Humidity: 10 to 90% non-condensing
Dimensions (HxWxD)	44 x 218 x 240 mm
Mounting	Rack Mount, Table Top

#### Additional Features

Voice Routing	Hunt Group, Number Manipulation, MSN and DDI, Call Routing logic
Supplementary services	Caller ID, Call Transfer, Call Hold, Call Forward, Call Waiting

#### Ordering information

MP-402/BRI/ST/AC/LL	VoIP Gateway with 1 BRI interface (2 voice channels) with lifeline support
MP404/BRI/ST/AC/LL	VoIP Gateway with 2 BRI interfaces (4 voice channels) with lifeline support
MP404/BRI/ST/AC/FB	VoIP Gateway with 2 BRI interfaces (4 voice channels) with optional fallback configuration
MP408/BRI/ST/AC/LL	VoIP Gateway with 4 BRI interfaces (8 voice channels) with lifeline support
MP408/BRI/ST/AC/FB	VoIP Gateway with 4 BRI interfaces (8 voice channels) with optional fallback configuration

Contact AudioCodes for availability

### APPLICATIONS

- Business PBX networking
- Voice over Broadband
- Converged Access

### ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUCD), Your Gateway to VoIP, provides innovative, reliable and cost-effective Voice over Packet (VOP) technology and Voice Network products to OEMs, Network Equipment Providers, Service Providers and System Integrators worldwide. AudioCodes provides a diverse range of flexible, comprehensive media gateway and media processing technologies (based on VoIPerfect™ – AudioCodes' underlying, best-of-breed, core media gateway architecture) and Session Border Controllers (SBCs). The company is a market leader in product development, focused on VoIP Media Gateway, Media Server and SBC technologies and network products. AudioCodes has deployed tens of millions of media gateway and media server channels globally over the past few years and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. The Company is a VoIP technology leader focused on quality, having recently received a number one ranking from ETSI for outstanding voice quality in its media gateways and media servers. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, enhanced voice services and video markets. AudioCodes enabling technology products include VoIP and CTI communication blades, VoIP media gateway processors and modules, and CPE devices. AudioCodes' headquarters and R&D facilities are located in Israel with an R&D extension in the U.S. Other AudioCodes' offices are located in Europe, the Far East, and Latin America.

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