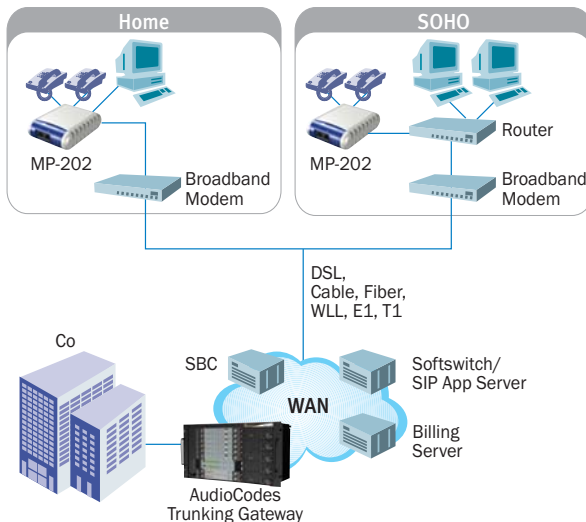# MP-20x series

MediaPack™ Series Telephone Adapters with Integrated Router

- **Residential and SOHO telephony for Voice over Broadband (VoB) networks**
- **Toll quality voice compression and wide-band vocoders**
- **Standard T.38 Fax support**
- **Easy integration into existing network**
- **Rich set of subscriber calling features**
- **Integrated router capabilities**

Part of the **MediaPack series** of analog VoIP gateways, the **MP-20x series** of Telephone Adapters are cost-effective, cutting edge products, which allow connecting ordinary analog telephones or fax machines to a Voice over Broadband (VoB) service.

As the rest of the MediaPack gateways, the MP-20x series of Telephone Adapters are well-suited for commercial VoIP deployments. Field proven voice and fax technology and feature rich design makes them an excellent choice for Voice over Broadband (VoB) service providers and operators.

DESIGNED FOR RESIDENTIAL AND SOHO IP TELEPHONY

The MP-20x series is designed for the rapidly growing residential and Small Office /Home Office (SOHO) VoIP market. The MP-20x series typically connects to an existing Broadband Internet device (cable or DSL modem), and establishes a communications path with the Service Provider network via its IP Uplink connection. The MP-20x series provide up to 2 VoIP ports for connecting up to 2 POTS lines or fax machines. Supporting a rich set of subscriber calling features such as caller ID, Call Forward, and Call Waiting, the MP-20x series maintains a uniform user experience when migrating to VoIP services. In addition, the MP-20x Series serves as a router, supporting connectivity of a PC or LAN hub/switch, and including NAT (Network Address Translation), DHCP, PPPoE functions required for simultaneous telephone and Internet usage, as well as a built-in firewall.

BENEFIT FROM EXTENSIVE EXPERIENCE

Utilizing Audiocodes' VoIPerfect™ core architecture, and gaining from its accumulated experience in providing IP telephony solutions, the MP-20x series combines superior voice quality and "state of the art" features for end users, such as T.38 Fax Relay and G.168-2004 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.

INTEROPERABILITY

The MP-20x Series is designed for full interoperability with leading Softswitches and SIP Servers for deployment in various network environments. Throughout the years, AudioCodes has invested significant effort in complying with the leading and evolving VoIP standards. Support of the Session Initiation Protocol (SIP), which is commonly found in Voice over Broadband (VoB) networks, assures seamless integration and rapid deployment.

MP-20x KEY FEATURES

- Seamlessly connect Fax and Telephone over broadband infrastructure
- Best of breed voice quality, based on Audiocodes' VoIPerfect™ core architecture
- Rich telephony features including Caller ID, Call Waiting, 3-Way calling, and more
- Interoperable with SIP-compliant devices including Softswitches, Application Servers, Media Servers, and other gateways
- Second Ethernet port for LAN/PC connectivity
- Router functionality with prioritized voice over data traffic (when connected to a broadband modem)

MP-20x series — MediaPack™ Series Telephone Adapters with Integrated Router

SPECIFICATIONS

Interfaces	
Voice Ports	MP-201 — 1 telephony port*
	MP-202 – 2 telephony ports
Features	
Telephone Interfaces	RJ11 connector
Network Interface	LAN I/F (Uplink): RJ-45 - 10/100 Base-T
	LAN I/F (Down link): RJ-45 – 10/100 Base-T
Telephony Features	FXS Loop Start
	FXO*
	DTMF – Detection and Generation, TIA464B
Subscriber Features	Caller ID (type 1 & 2)
	Call Hold
	Call Transfer
	3-way conferencing
	Call Waiting
	Call Forward
	MWI
Signaling	
VoIP Signaling Protocols	SIP – RFC 3261
	MGCP – RFC 2705*
Data Protocols	IPv4, TCP, UDP, ICMP, ARP
	PPPoE – RFC 2516, PPTP, L2TP
	DNS, Dynamic DNS
	IEEE 802.1p/q (QoS & VLAN tagging)
	ToS/Diffserv
	Layer 2 switching or
	WAN to LAN Layer 3 routing with:
	• DHCP Client/Server – RFC 2132
	• RIP V1/V2 and static routing
	• NAT – RFC3022, Application Layer Gateway (ALG)
	• Voice over Data prioritization
	• Firewall & URL filtering
Media Processing	
Voice Coders	G.711, G.723.1, G.729A/B, G.726, iLBC*, GSM FR*
Wideband Coders*	G.722, G.722.2 (WB-AMR)
Fax	T.38, network delay up to 10 sec
Echo Cancellation	G.168-2004 compliant, 64 msec tail length
Silence Suppression	VAD, CNG
Adaptive Jitter Buffer	300 msec
Packetization	RTP/RTCP Packetization – RFC 3550, 3551, 2198
	DTMF Relay - RFC 2833
Provising Management	
Provisioning	Embedded Web Server for Configuration and Management
	Software and Configuration upgrade from HTTP
	TR-069, TR-104
Management	Integrated SNMP agent
	CLI over Telnet
	Syslog support for debug and diagnostics
	Configurable Call progress tones
	Configurable line characteristics
Security	
Management	HTTPS for Web-based configuration
	Password protected Web pages (MD5)
Media+Control	IPSec* for media streaming and data traffic
LEDs Indications	Ethernet activity
	Phone activity
	Power
Physical	
Power	+12VDC, 0.6A
	Power adaptor: 110VAC/220VAC to 12VDC, 1A
Dimensions	103x74x29.5 mm
Environmental	Operation: 5-40⁰ Celsius
	Storage: -25⁰C - 70⁰C

Operation: 5-40°C; Storage: -25°C - 70°C

* Please contact AudioCodes for specific software availability

APPLICATIONS

- Voice over Broadband (VoB)
- Residential Telephony
- SOHO VoIP Telephony
- Converged Access

ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUDC), Your Gateway to VoIP, provides innovative, reliable and cost-effective Voice over Packet (VOP) technology, Voice Network products, and applications 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. For further information on AudioCodes, visit www.audiocodes.com.

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Your Gateway to VoIP