

MediaPack™ Series

Analog VoIP Gateways (MP-11X, MP-124D)

The **MediaPack™ Series** Analog VoIP Gateways are cost-effective, cutting-edge technology products. These stand-alone analog VoIP Gateways provide superior voice technology for connecting legacy telephones, fax machines and PBX systems with IP-based telephony networks, as well as for integration with new IP-based PBX systems. These products are designed and tested to be fully interoperable with leading Softswitches, SIP servers and H.323 gatekeepers.

The MediaPacks are well suited for commercial VoIP deployment because of their mature and field-proven voice and fax technology. Their rich feature set allows integration with a wide range of Carriers and Enterprise network applications. MediaPack gateways are used by Carriers and Service Providers in Access networks for connecting Multi-Tenant Units (MTU), IP-Centrex subscribers, payphones and rural users over various wireless and satellite links. Enterprises use MediaPack gateways to connect their legacy PBX systems over an IP infrastructure. Enterprises also use MediaPack gateways to connect IP-PBX systems to PSTN networks (using FXO interfaces) or to connect analog phones and fax machines (utilizing FXS interfaces). The flexible gateways support a combination of FXS and FXO interfaces enabling a broad range of deployment options which include PSTN Fallback for overcoming network disconnection or congestion. The hybrid FXS/FXO configuration enables enterprises to reduce their telephony bills by using VoIP while maintaining existing phone numbers for incoming calls from the PSTN.

DELIVER FEATURE-RICH SOLUTIONS

The MediaPacks are third generation products that have been designed to meet real market needs. In addition to superior voice technology, the products provide advanced telephony features such as long-haul, metering tones generation, country dependent MWI and CID for true integration with the existing telephony infrastructure. A variety of management and provisioning tools, such as AudioCodes' EMS, embedded web server, Telnet and SNMP enable fast deployment and management of large and complex networks. The MediaPacks are based on VoIPerfect™ architecture, AudioCodes underlying, best-of-breed, core media gateway technology for all of its products.

PROVIDE INTEROPERABILITY

The MediaPacks are part of AudioCodes' complete family of stand-alone VoIP Gateways for OEM system integration. Throughout the years, AudioCodes has invested significant effort in complying with the leading and evolving VoIP standards. 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 short time-to-market with field-proven products.

BENEFIT FROM EXTENSIVE EXPERIENCE

AudioCodes, established in 1993, is one of the world's leading providers of VoIP technology. AudioCodes' commitment to innovation yields consistently high-quality voice processing products that are feature-rich and field-proven. AudioCodes has deployed close to 12 million VoIP ports in over 100 countries to date.

MEDIAPACK SERIES FEATURES

- Spans a range of 2 to 24 analog ports
- Supports PSTN/PBX analog telephone sets or analog trunk lines (FXS/FXO)
- Selectable, multiple LBR coders per channel
- T.38 compliant
- Echo canceller, Jitter Buffer, VAD and CNG
- Complies with MGCP, H.323 (V4) and SIP control protocols
- Comprehensive support for subscriber features
- Enhanced capabilities which include MWI, long-haul, Metering Tones, STUN, Security features, Generation, CID and outdoor protection
- Fallback to PSTN using bypass relay (FXS/FXO)
- Web Management for easy configuration and installation
- EMS for comprehensive management operations (FCAPS)
- Automatic provisioning via TFTP/HTTP



- Provides fax, voice and modem support
- Offers toll quality voice compression
- Enhanced capabilities including MWI, long haul, Metering Tones Generation, CID and outdoor protection
- Allows Fallback to PSTN for E911 or upon network/power failure (FXS/FXO)
- Supports SIP, H.323 and MGCP standard control protocols
- Proven integration with leading PBXs, IP-PBXs, Softswitches and Gatekeepers



AudioCodes CPE & Access Gateway Products

MediaPack™ Series

SPECIFICATIONS

	MP-112	MP-114 and MP-118	MP-124D
Interfaces			
Voice Ports	2 ports	4 and 8 ports	24 ports
Telephone Interfaces	FXS, RJ11	FXS, FXO or mixed FXS/FXO, RJ11	FXS, 50-pin Telco Connector
Life Line	Automatic cut through of a single analog line		
Network Interface	10/100 BASE-TX, RJ45		
Indicators	Channel status and activity LEDs		
Voice, Fax, Modem			
Voice over Packet Capabilities	G.168-2004 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 switching to PCM or ADPCM		
QoS	Diffserve, TOS, 802.1 P/Q VLAN tagging		
IP Transport	RTP/RTCP per IETF RFC 3550 and 3551, PPPoE		
Signaling			
Signaling	FXS Loop-start	FXS, FXO Loop-start	FXS Loop-start
In-band Signaling	DTMF (TIA 464B) User-defined and call progress tones		
Control	MGCP (RFC 2-05), H.323 (V4), SIP (RFC 3261)		
Provisioning	BootP, DHCP, TFTP and HTTP for Automatic Installation Remote management using Web browser EMS (Element Management System) Syslog support RS-232 for basic configuration		
Security			
Media	SRTP		
Control	H.235, IPSEC, TLS/SIPS		
Management	HTTPS, Access List, IPSEC		
Physical			
Power	100-240 VAC/50-60 Hz		
Environmental	Operational: 5 to 40° C 41 to 104° F Storage: -25 to 85° C -13 to 185° F Humidity: 10 to 90% non-condensing		
Dimensions (HxWxD)	42x172x220mm	42x172x220mm	44x445x269mm
Mounting	Rack mount, Table top, Wall mount		
Additional Features			
Short and Long Haul	REN3: Up to 9Km (24 AWG line)		
Caller ID	Bellcore Type 1 & 2, ETSI, BT, NTT and DTMF-based CID (Brazil, Denmark, India, Netherlands, Sweden)		
Polarity Reversal / Wink	Immediate or smooth to prevent erroneous ringing		
Metering Tones	12/16 KHz sinusoidal bursts, Generation on FXS		
Distinctive Ringing	By frequency (15-100 Hz) and cadence patterns		
Message Waiting Indication	DC voltage generation (TIA/EIA-464-B), V23 FSK data, Stutter Dial Tone		
Outdoor Protection	Over-voltage protection and surge immunity		
Homologation			
EMC	EN55022 Class B, CFR Part 15 Class B, EN55024, EN61000-3-3, EN61000-3-2, VCCI Class X1 (equal to class B)		
Safety	EN60950-1 Safety of information technology equipment, UL60950-1 Including compliance to section 6 (over-voltage protection)		
Telecom	TRR-21, TIA-968		

APPLICATIONS

- Converged access and IP Centrex for hosted services
- Multi-Tenant Units
- POTs and fax extensions for IP-PBX
- Voice VPN
- VoIP-enabled PBX
- Unified Messaging and recording

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