AudioCodes CPE & Access Gateway Products

MediaPack™ Series

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

- Provides voice, fax and modem support
- Offers toll quality voice compression
- Enhanced capabilities including MWI, long haul, Metering Tones Generation and, Caller ID
- Allows fallback to PSTN for E911 (Emergency number PSTN breakthrough) or upon network/ power failure (FXO and/or FXS) configurations
- Supports Standalone Survivability (SAS) for hosted communications services and centralized IP-PBX deployments
- Supports SIP, H.323 and MGCP standard control protocols
- Proven integration with leading PBXs, IP-PBXs, and softswitches

SAS
Stand Alone Survivability
Continuous VoIP Service

The **MediaPack™ Series** Analog VoIP Gateways are cost-effective, best-of-breed 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 IP PBX systems. They are designed and tested to be fully interoperable with leading softswitches, SIP servers and H.323 gatekeepers.

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 carrier 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. In addition, in hosted communications and centralized IP-PBX applications, the MediaPack increases the remote location availability and provides Standalone Survivability (SAS) when there is no IP connection between branch locations and the central SIP servers, SIP Proxy or central IP-PBX.

Deliver Feature-rich Solutions

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 Caller ID 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.

Provide Interoperability

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.

MediaPack Series Features

- Scales 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
- Rich subscriber Feature Set including; 3-Way conference with local mixing, call pickup, hunt groups, call forwarding, call hold, call transfer
- Echo cancelation, Jitter Buffer, VAD and CNG
- Complies with SIP, MGCP and H.323 (V4) control protocols
- Enhanced capabilities which include MWI, long-haul, metering tones, STUN, Security features andCaller ID.
- Standalone Survivability (SAS) for SIP based hosted communications and centralized IP-PBX applications
- Web Management for easy configuration and installation
- EMS for comprehensive management operations (FCAPS)
- Voice quality monitoring support via AudioCodes Session Experience Manager (SEM).
- Automatic, secured provisioning. Useful for large-scale deployments
- Internal Access List firewall for network traffic filtering

AudioCodes

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
Lifeline		Automatic cut through of a single analog line	
Network Interface	10/100 BASE-T, RJ45		
Indicators	Channel status and activity LEDs		
Voice, Fax, Modem			
Voice over Packet Capabilities	G.168-2004 Echo Cancelation, VAD, CNG, Dynamic programmable Jitter Buffer, modem detection and auto-switch to PCM		
Voice Compression	G.711, G.723.1, G.726 ADPCM, G.727 ADPCM, G.729A/B, G.722		
Fax over IP	T.38 compliant Group 3 fax relay up to 14.4 kbps with automatic switching to PCM or ADPCM		
3-Way Conference	3-Way conference with local mixing		
VLAN QoS	DiffServ, TOS, 802.1 p/Q VLAN tagging, RTCP-XR		
IP Transport (bandwidth)	RTP/RTCP per IETF RFC 3550 and 3551		
Signaling			
Signaling	FXS Loop-start	FXS, FXO Loop-start	FXS Loop-start
In-band Signaling	DTMF (TIA 464B) User-defined and call progress tones		
Out-of-Band Signaling	DTMF Relay (RFC 2833), DTMF via SIP INFO/NOTIFY		
Control	SIP (RFC 3261), MGCP (RFC 2- 05), H.323 (V4),		
Provisioning			
Protocols	BootP, DHCP, TFTP and HTTP for Automatic Installation DHCP options 66.67 in auto update mode Remote management using Web browser EMS (Element Management System) / SNMP V3 RS-232 for basic configuration (via CLI) Voice Menu using touch tone phone for basic configuration		
Security			
Media	SRTP		
Control	H.235, IPSEC, TLS/SIPS		
Management	HTTPS, Access List, IPSEC		
Additional Features			
Message Waiting Indication	Applying 100V DC online for lighting bulb in handset, FSK, Stutter Dial Tone		
PSTN Fallback	Support of PSTN fallback due to Power failure, if the IP connection is down or due to customer defined IP QOS thresholds		
Stand Alone Survivability (SAS)	Supports SAS of up to 25 SIP users (UA) per MediaPack		
Ring voltage	Sine: 54 V_{RMS} typical (balanced ringing only)		
Ring Frequency	25-100Hz		
Voice Quality Monitoring	AudioCodes Session Experience Manager (SEM)		
Maximum Ringer Load	REN3		
Loop Impedance (including phone impedance)	Up to 1500 ohm for the MP-11x, Up to 1600 ohm for the MP-124		
Line current	up to 32 MA on 4 ports		
Lifeline	Supported in all ports of Mixed FXS/FXO and in first port of MP-114/FXS and MP-118/FXS using special Lifeline cable		
Caller ID	Bellcore GR-30-CORE Type 1 using Bell 202 FSK modulation, ETSI Type 1, NTT, Denmark, India, Brazil, British and DTMF ETSI CID (ETS 300-659-1)		
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		
Outdoor Protection			
	Over-voltage protection and surge immunity. This applies only to the MP-124 FXS telephony cables, which can be routed outdoors. In such a case, power surge protection means are required (refer to the Installation Manual for detailed instructions)		
Physical			
Power	100-240 V AC/50-60 Hz or -48V DC*		
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 (MP-112)	42x172x220mm (MP-112 and MP-118)	44x445x269mm (MP-124D)
Mounting	Rack mount, Table top, Wall mount		
Weight	MP-1xx: 0.5 kg (1.1 lbs.) approx.		MP-124: 1.8 kg (4 lbs.)
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 Telecom TBR-21, TIA-968		

** -48V DC is supported only on the MP-124D*

Applications

- Survivable IP Centrex for hosted services and central IP-PBX IP Centrex for hosted services
- Multi-Tenant Units
- POTs and fax extensions for IP-PBX
- Voice VPN
- VoIP-enabled PBX
- Unified Messaging and recording
- IP-PBX FXS Analog extensions and FXO Trunking

About AudioCodes

AudioCodes Ltd. (NasdaqGS: AUDC) designs, develops and sells advanced Voice over IP (VoIP) and converged VoIP and Data networking products and applications to Service Providers and Enterprises. AudioCodes is a VoIP technology market leader focused on converged VoIP & data communications and its products are deployed globally in Broadband, Mobile, Enterprise networks and Cable. The company provides a range of innovative, cost-effective products including Media Gateways, Multi-Service Business Routers, Session Border Controllers (SBC), Residential Gateways, IP Phones, Media Servers and Value Added Applications. AudioCodes' underlying technology, VoIPerfect HDTM, relies on AudioCodes' leadership in DSP, voice coding and voice processing technologies. AudioCodes High Definition (HD) VoIP technologies and products provide enhanced intelligibility and a better end user communication experience in Voice communications.

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