AudioCodes VoIP Gateway Products

Analog VoIP Gateway (MediaPack™ 5xx)

The AudioCodes **MediaPack™ 5xx series of analog VoIP gateways** provide service providers and enterprises with superior voice technology for connecting legacy telephones, fax machines and PBX systems with IP telephony networks, IP-PBX systems and unified communications solutions.

MediaPack 5xx gateways offer comprehensive SIP interoperability with leading vendors, delivering secure and reliable communications for enterprises and branch office locations.

4 to 32 Analog ports | Zero-Touch Provisioning | Branch Survivability | T.38 Fax Compliant

Comprehensive interoperability
Proven interoperability with SIP trunks, SIP platforms and IP cloud services

High resiliency
local branch survivability with dual network connectivity and Dual Power Supply AC and DC*

Superior voice quality
Advanced capabilities for optimizing and monitoring voice service quality

Enhanced capabilities
Includes MWI, long haul, metering tones generation and caller ID

All-in-one option
Option to add data routing capabilities within the same device

AudioCodes CPE & Access Gateway Products

Specifications*

Interfaces

	MP-504 and MP-508	MP-516, MP-524, MP-532
Telephony Interfaces	2/4/8 ports, FXS loop-start MediaPack 508 - option for 4FXS&4FXO assembly	16/24/32 ports, FXS loop-start D-sub or RJ11 assembly options
Network Interfaces	1x WAN copper Ethernet 10/100/1000; 1x LAN 10/100/1000Base-TX	2x WAN copper Ethernet 10/100/1000; 1x LAN 10/100/1000Base-TX

Voice Features

Voice Coders	G.711, G.723.1, G.729A, G.722
VoIP Features	G.165 and G.2002-168, with 64 ,32 or 128 msec tail length, silence detection and comfort noise generation, dynamic programmable jitter buffer
Call Progress Tones	Programmable detection and generation tones, pre-recorded tones generation
DTMF	In-band and out-of-band signaling, RFC 2833, SIP INFO/NOTIFY
Fax Transport	T.38 compliant (real time fax), automatic bypass to PCM
Voice Security - Session Border Controller (SBC)	• SIP header conversion, SIP normalization • Survivability • IP-to-IP routing translations of various SIP transport types; UDP, TCP, TLS, translation of RTP, SRTP without reduction • Support SIP trunk with multi-ITSP (registrations to ITSPs are invoked independently) • Topology hiding • Call Admission Control • Call black/white list

Subscriber Line Interface

3-Way Conference	On-board 3-way conference
MWI	Message Waiting Indication: High (neon) and low (LED) voltage, FSK, stutter dial tone
Caller ID	Bellcore GR-30-CORE Type 1 using Bell 202 FSK modulation, ETSI Type 1, NTT, Denmark, India, Brazil, United Kingdom 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	Default (NA): 2s on, 4s off (30Hz) Ring Tone #1: 1s on 0.5s off 1s on 3s off (20Hz) Ring Tone #2: 0.5s on 0.5s off 0.5s on 0.5s off 1s on 3s off (20Hz)

Analog Telephony Features

Ring Voltage	Normal: Sine 57Vrms High-Voltage Ringing (HI-V): Sine 75Vrms	
Ring Frequency	EU – 25Hz (default) US – 20Hz (default) User configurable up to 100Hz	
Maximum Ringer Load	MP504 Normal/High Voltage REN2x4ch MP508 Normal : REN2 x8ch, REN3x4ch High Voltage : REN2x4ch	Normal: REN3x32ch High-Voltage: REN3x8ch+REN2x24ch
Loop Impedance	Up to 800 Ohm (including phone impedance)	Up to 1500 Ohm (including phone impedance of 300 Ohm)
Line Current	Normal :25mA	Normal :25mA Enhanced :32mA on limited number of 8 ports

Control and Management

Control Protocols	• SIP-TCP, SIP-UDP, SIP-TLS and IPv6 supported
Operations & Management	• AudioCodes' One Voice Operation Center • Embedded HTTP Web Server, SNMP V2/V3, SSH, Telnet, TR-69, TR-098, TR-181, TR-104 • User authentication and access control via HTTP or HTTPS, RADIUS, TACACS, Syslog (for events and alarms) • Zero-touch provisioning

Optional Data Routing and Security

Routing Functionality	• IPv6, IPv6/IPv4 Dual Stack, ICMPv6, DHCPv6, SLAAC • VLAN and IEEE 802.1Q VLAN tagging • DHCP client, relay, server • Layer 3 routing and layer 2 bridging, jumbo frames • Static and dynamic routing (RIP1, RIP2, OSPFv2, BGP), policy-based routing	
Data Security	• Stateful packet inspection firewall • Network Access Control - 802.1x • IPSec with IKEv2 • ESP – Tunnel mode • Encryption protocols: 3DES, AES, SHA-256, MD-5	• IDS/IPS (fragmented traffic, malformed request, ping of death, properly formed request from unauthenticated source, DDoS attack, SYN flood) • Packet filtering
Quality of Service	• IEEE 802.1P, DSCP, TOS, DiffServ labeling, WRED, • Marking, policing, and shaping, class-based queuing with prioritization, queuing based on VLAN	

Physical/Environmental

	MP-504 and MP-508	MP-516, MP-524, MP-532
Power	100-240V, 50-60 Hz, 0.8A	dual Power supply AC: 90-240V 50-60 Hz 1.5A. DC: 18-54VDC 7-3A.
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)	51 x 296 x 160 mm (HxWxD)	19"(443mm)x1Ux288mm
Mounting	Table top, wall mount, rack mount (with an optional shelf)	Rack mount, table top
Weight	1.5 lb (670g)	5.7 lb (2.6 kg)

Certifications

CE, FCC	Compliant with UL 62368-1 / EN 62368-1

* Dual power supply available by default for Media Pack 516/ 524/532

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