

## 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

Standalone survivability (SAS) and fallback to PSTN for E911 (emergency number PSTN breakthrough) or upon network/power failure



### 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

DATASHEET

## Specifications\*

MediaPack™ 5xx

Interfaces		
	MP-504 and MP-508	MP-516, MP-524, MP-532
<b>Telephony Interfaces</b>	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
<b>Network Interfaces</b>	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		
<b>Voice Coders</b>	G.711, G.723.1, G.729A, G.722	
<b>VoIP Features</b>	G.165 and G.2002-168, with 64, 32 or 128 msec tail length, silence detection and comfort noise generation, dynamic programmable jitter buffer	
<b>Call Progress Tones</b>	Programmable detection and generation tones, pre-recorded tones generation	
<b>DTMF</b>	In-band and out-of-band signaling, RFC 2833, SIP INFO/NOTIFY	
<b>Fax Transport</b>	T.38 compliant (real time fax), automatic bypass to PCM	
<b>Voice Security - Session Border Controller (SBC)</b>	<ul style="list-style-type: none"> <li>• SIP header conversion, SIP normalization</li> <li>• Survivability</li> <li>• IP-to-IP routing translations of various SIP transport types; UDP, TCP, TLS, translation of RTP, SRTP without reduction</li> <li>• Support SIP trunk with multi-ITSP (registrations to ITSPs are invoked independently)</li> <li>• Topology hiding</li> <li>• Call Admission Control</li> <li>• Call black/white list</li> </ul>	
Subscriber Line Interface		
<b>3-Way Conference</b>	On-board 3-way conference	
<b>MWI</b>	Message Waiting Indication: High (neon) and low (LED) voltage, FSK, stutter dial tone	
<b>Caller ID</b>	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)	
<b>Polarity Reversal/Wink</b>	Immediate or smooth to prevent erroneous ringing	
<b>Metering Tones</b>	12/16 KHz sinusoidal bursts, generation on FXS	
<b>Distinctive Ringing</b>	By frequency (15-100 Hz) and cadence patterns	
Analog Telephony Features		
<b>Ring Voltage</b>	Sine: 54 VRMS typical (balanced ringing only)	
<b>Ring Frequency</b>	15-50Hz	
<b>Maximum Ringer Load</b>	REN3	
<b>Loop Impedance</b>	Up to 800 ohm (including phone impedance)	
<b>Line Current</b>	Up to 25 mA on 4 ports	
Control and Management		
<b>Control Protocols</b>	<ul style="list-style-type: none"> <li>• SIP-TCP, SIP-UDP, SIP-TLS and IPv6 supported</li> </ul>	
<b>Operations &amp; Management</b>	<ul style="list-style-type: none"> <li>• AudioCodes' One Voice Operation Center</li> <li>• Embedded HTTP Web Server, SNMP V2/V3, SSH, Telnet, TR-69, TR-098, TR-181, TR-104</li> <li>• User authentication and access control via HTTP or HTTPS, RADIUS, TACACS, Syslog (for events and alarms)</li> <li>• Zero-touch provisioning</li> </ul>	
Optional Data Routing and Security		
<b>Routing Functionality</b>	<ul style="list-style-type: none"> <li>• IPv6, IPv6/IPv4 Dual Stack, ICMPv6, DHCPv6, SLAAC</li> <li>• VLAN and IEEE 802.1Q VLAN tagging</li> <li>• DHCP client, relay, server</li> <li>• Layer 3 routing and layer 2 bridging, jumbo frames</li> <li>• Static and dynamic routing (RIP1, RIP2, OSPFv2, BGP), policy-based routing</li> </ul>	
<b>Data Security</b>	<ul style="list-style-type: none"> <li>• Stateful packet inspection firewall</li> <li>• Network Access Control - 802.1x</li> <li>• IPsec with IKEv2</li> <li>• ESP - Tunnel mode</li> <li>• Encryption protocols: 3DES, AES, SHA-256, MD-5</li> </ul>	<ul style="list-style-type: none"> <li>• IDS/IPS (fragmented traffic, malformed request, ping of death, properly formed request from unauthenticated source, DDoS attack, SYN flood)</li> <li>• Packet filtering</li> </ul>
<b>Quality of Service</b>	<ul style="list-style-type: none"> <li>• IEEE 802.1P, DSCP, TOS, DiffServ labeling, WRED,</li> <li>• Marking, policing, and shaping, class-based queuing with prioritization, queuing based on VLAN</li> </ul>	
Physical/Environmental		
	MP-504 and MP-508	MP-516, MP-524, MP-532
<b>Power</b>	100-240V, 50-60 Hz, 0.8A	90-240,50-60Hz, 1.5A
<b>Environmental</b>	Operational: 5 to 40°C (41 to 104°F) Storage: -25 to 85°C (-13 to 185°F) Humidity: 10 to 90% non-condensing	
<b>Dimensions (HxWxD)</b>	51 x 296 x 160 mm (HxWxD)	19"(443mm)x1Ux288mm
<b>Mounting</b>	Table top, wall mount, rack mount (with an optional shelf)	
<b>Weight</b>	1.5 lb (670g)	5.16 lb (2.34Kg)
Certifications		
<b>CE, FCC</b>	Compliant with UL 62368-1 / EN 62368-1	

\* For specific configuration availability please contact an AudioCodes sales representative

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05/24 v.4

