The Mediant™ 5000 VoIP Media Gateway is a scalable, IMS-ready, standards-compliant, medium channel density system for wireline, wireless, cable, broadband access and Fixed-Mobile-Convergence networks.

**Carrier-Grade High Availability**
The Mediant 5000 offers robust architecture meeting service providers’ stringent requirements for high availability. This high availability architecture is based on cost-effective N+1 redundancy of the processing blades and load sharing of fans and power supplies.

**Multiservice Media Gateway**
The Mediant 5000 Media Gateway provides extensive support for regional PSTN interfaces, broad voice vocoder options, Signaling Gateway Interworking, control protocols and advanced security features, enabling multiservice deployment flexibility for a variety of customers (ILECs, IOCs, CLECs, MSOs, large Enterprises and contact centers) and applications.

The Mediant 5000 can be used for backhauling TDM over IP, part of class 4 & 5 TDM switch replacements, IP interconnection, IP service node, IP Centrex Applications and as a PacketCable gateway. In the wireless/cellular space, the Mediant 5000 is ideal for UMA and Femtocell applications. The Mediant 5000 allows Network Equipment Providers (NEPs) and Independent Software Vendors (ISVs) to immediately address opportunities for these services due to its advanced deployment flexibility.

**High Level of Scalability**
The Mediant 5000 is a modular platform which can scale up to 6048 protected channels, allowing customers to begin with a low capacity entry point and later extend to a higher capacity by increasing the number of processing blade modules.

**All-IP Evolution**
With the introduction of Next Generation Networks, there is a growing demand for IP to IP transcoding in peering, access and Fixed-Mobile-Convergence scenarios. The Mediant 5000 has the flexibility to primarily be installed as a classic VoIP Media Gateway, and in parallel accommodate the growing demand of IP peering as PSTN interfaces are gradually being phased out.

**True Network Convergence on a Single Platform**
The Mediant 5000 offers a high voice quality ranging from low-bit-rate to wideband high-definition vocoders. This enables true network convergence between mobile/wireless networks and fixed line, cable and broadband networks on a single media gateway platform.

**Broad PSTN Interfaces Options and Protocols**
The Mediant 5000 provides the flexibility to be globally deployed, interfacing with all popular PSTN interfaces, including E1, T1, J1, DS3 and OC3/STM1.

**Advanced Security Suite**
With the advent of VoIP, security has become a mandatory requirement. The Mediant 5000 addresses service providers and large enterprises security concerns, offering advanced security capabilities which include SRTP for media, IPSec for control and OAM and TLS and PKI for SIP.
AudioCodes Voice Network Products for Wireline, Wireless, Cable and Converged Applications

Mediant™ 5000

**Specifications**

**Capabilities**

**Capacity**
- Up to 6,048 protected VoIP/GSM/UMTS channels
- G.729.1 (Wideband AMR)
- G.729.2 (Wideband CSMA)
- EVRC

**Voice Coders**
- GSM/UMTS: GSM-FR, GSM-EFR, AMR, AMR-WB
- COMA: EVRC, EVRC-B, OCELP 8k, OCELP 13k
- Cable: G.711, G.726.1, G.726.2, G.729, G.729A/B, ILBC

**Echo Cancellation**
- G.165 and G.168 compliant

**Fax Support**
- Fax/Modem Detection Control, T.38 (IP) compliant Group 3 fax relay and fax bypass (automatic fallback to G.711) support

**DTMF**
- Packetized or PSTN side detection and generation, RFC 2833 compliant

**Voice Over Packet Capabilities**
- Call progress tones, VAD, CNG, Dynamic programmable jitter buffer, DTMF detection and generation, E911 CAS support

**Signaling**

**PSTN**
- ISDN PRI (RFAI), ISDN BRI (RFAI), E1 (RFAI), T1 (RFAI), G.703

**SIGTRAN**
- SS7, M3UA/SCTP, M3UA/SCTP

**Media Gateway**
- MGCP (RFC 3261), TCFP (RFC 3558), IP/UDP, RTP/UDP

**Control Protocols**
- SS7: ISUP, TUP, MTP1, MTP2, MTP3
- SS7- M2UA/SCTP, M3UA/SCTP

**Security**
- SRTMP
- Public Key Infrastructure Certificate for TLS
- IPSec (ESP) with IKE pre-shared key for secure Management with EMS/NMS/OSS and Control with MGIC
- AES - 128 (Rijndael) cipher algorithm, in CBC mode for Media Security
- (RTT/RTCP) for packet cable
- S/SP/Protocols Version 2 for secure Telnet and SFTP Server transfers
- Firewall - for controlled IP access to Media Gateway Blades

**Interfaces**

**PSN:**
- Up to x 3 OC-3/STM-1 Optical ports, each 1+1 APS protected, or up to 9 x T3 (DS-3) Copper Coax ports or up to 96 E1/T1/1/11 spans
- IP: Dual Redundant 100/1000 BASE-T (aggregated) Ethernet ports, with Multi-VLAN Interfaces support (OAM, Control, Media)
- Clock Synchronization: BITS/SETS (GR-1244 Stratum-3 and G.813 compliant)
- Line synchronization (via STM-1/OC-3 link or DS1 trunk)

**Enclosure**
- 1U-slots, 5U CPO chassis

**Dimensions (HxWxD)**
- 222 mm x 438 mm x 314 mm (8.7 in. x 19 in. x 12.3 in.)

**Weight**
- Approx. 27 lbs. (23.4 kgs.), unloaded
- Approx. 30 lbs. (23.4 kgs.), fully loaded

**Mounting**
- Per EIA Standard RS-310-C in 19-inch rack

**Midplane**
- PICMG 2.16 PCIe Packet Switching Backplane (PSB)
- PICMG 2.1 PCIe hot swap specification
- PICMG 2.0 PCIe specification

**Power**
- 1000 system config: -48 V DC Dual Feed, with 3 DC Power modules
- 100-240 VAC with 3 AC Power modules

**Cabling**
- Replaceable fans trays & filters

**Regulatory Compliance**

**Telecommunication Standards**
- FCC part 88
- ETSI and EN 300-220

**Safety and EMC Standards**
- UL60950 + FCC part 15 Class A
- CE Mark (EN50022 Class A, EN60950, EN50024, EN300 386)

**Environmental**
- NEMS Level 3: GR-63-CORE, GR-1089-CORE, Type 1 & 3, ETS300 019

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1 Reduced channel capacities  
2 Designed to meet — formal approval pending

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**About AudioCodes**

AudioCodes Ltd. (NASDAQ: AUTC) provides innovative, reliable and cost-effective Voice over IP (VoIP) technology, Voice Network Products, and Value Added Applications to Service Providers, Enterprises, OEMs, Network Equipment Providers and System Integrators worldwide. AudioCodes provides a diverse range of flexible, comprehensive media gateway, and media processing enabling technologies based on VoIPPerfect™ – AudioCodes’ underlying, best-of-breed, core media architecture. The company is a market leader in VoIP equipment, focused on VoIP Media Gateway, Media Server, Session Border Controllers (SBC), Security Gateways and Value Added Application network products. AudioCodes has deployed tens of millions of media gateway and media server channels globally over the past ten years and is a key player in the emerging best-of-breed, IMS based, VoIP market. The Company is a VoIP technology leader focused on quality and interoperability, with a proven track record in product and network interoperability with industry leaders in the Service Provider and Enterprise space. AudioCodes Voice Network Products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, cable, enhanced voice services, video, and Enterprise IP Telephony markets. AudioCodes’ headquarters are located in Israel with a global presence in the U.S. Other AudioCodes’ offices are located in Europe, India, the Far East, and Latin America.

**International Headquarters**
1 Hayarden Street,  
Airport City  
Lod 70151, Israel
Tel: +972-3-976-4000  
Fax: +972-3-976-4040

**US Headquarters**
2099 Gateway Place, Suite 500  
San Jose, CA 95110
Tel: +1-408-441-1175  
Fax: +1-408-451-9520

**Contact us:**
[info@audiocodes.com](mailto:info@audiocodes.com)
[www.audiocodes.com](http://www.audiocodes.com)

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Ref. # LTRM-40005 05/08 V 6