Mediant™ 2000 VoIP Media Gateway

The Mediant™ 2000 VoIP Gateway is a member of AudioCodes’ family of market-ready, standards-compliant, media gateway systems. Designed for wireline, wireless, cable, broadband access and fixed-mobile converged VoIP networks from a single media gateway platform.

**Deploy Right-Sized Solution**
The Mediant 2000 VoIP Gateway matches the density requirements for smaller locations while meeting Network Service Providers’ demands for scalability. The compact Mediant 2000 VoIP Gateway scales from 1 to 16 E1/T1/J1 spans in a 1U chassis and provides a best-of-breed mediation solution for enterprise as well as carrier locations.

**Create Flexible Products and Services**
The Mediant 2000 VoIP Gateway system enables NEPs and SIs to immediately address opportunities that utilize a myriad of legacy circuit-switched infrastructure features and functionalities. The Mediant 2000 can communicate with PBXs, PSTN, local IP Radio Access Networks, and centralized Mobile Switching Center (MSC) servers, enabling complete 2G and 3G enterprise solutions. The Mediant 2000 allows superior deployment flexibility for these solutions which include Softswitches, Cable Call Management Systems (CMS), Media Terminal Adapters (MTAs), PacketCable solutions and Broadcast Wireless Local Loop (WLL) Base Stations (WiFi, WiMax). The gateway’s open platform offers NEPs the option to add one cPCI Single Board Computer (SBC) to run complementary applications within the Mediant chassis.

This Media Gateway offers the enterprise a flexibility of out-of-the-box interoperability with numerous IP-PBX vendors, allowing PSTN functionality and connectivity, enriching VoIP applications such as Unified Communications and Contact Centers.

**Benefit from Extensive Gateway Experience**
AudioCodes is one of the world’s leading providers of packet-enabled new voice infrastructure network technologies. AudioCodes’ commitment to innovation yields consistently high-quality voice processing products that are flexible, intelligent and comprehensive.

**Mediant 2000 Features**
- NEBS Level 3 certified
- Multiple density options
- Field-proven, high voice quality
- Open, scalable architecture
- SIGTRAN Backhauling (SS7: M2UA/M3UA,PRI: IUA)
- Rich SIP support
- SS7 and TDM peer-to-peer tunneling over IP
- Stand Alone Survivability for service continuity
- Small footprint
- UMTS, CDMA, GSM compliant
**Specifications**

**Capacity**
- VoIP LBRs: Up to 30, 60, 120, 240 or 480 independent, simultaneous Wireline LBR VoIP voice calls
- GSM/UMTS: Up to 60, 120, 240 or 480 independent, simultaneous GSM/UMTS and Wireline LBR VoIP voice calls
- CDMA: Up to 24, 48, 96, 180 or 360 independent, simultaneous CDMA & Wireline LBR VoIP voice calls
- PSTN (TDM): 1, 2, 4, 8 or 16 E1/T1/J1/slash

**Voice Coders**
- VoIP: G.711, G.723, G.723.1, G.726/7, G.729A/B, GSM-FR, NetCoder
- Cable: G.711, G.723.1, G.726/7, G.729A/B, G.729E1
- GSM/UMTS: GSM-FR, GSM-EFR, AMR (8 rates) & VoIP Coders
- CDMA: EVRC, QCELP 8k, QCELP 13k & VoIP Coders

**Echo Cancellation**
- Independent dynamic vocoder selection per channel (within each group)
- G.165 and G.168 compliant, 32, 64 or 128ms echo delay length

**Fax Support**
- T.38 (IP) compliant Group 3 fax relay and fax bypass (automatic fallback to G.711)

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

**Quality Enhancement**
- Dynamic programmable jitter buffer, VAD, CNG, 802.1p/Q VLAN tagging, DiffServ, voice quality monitoring, G.729B

**Signaling & Transport**
- PSTN: CAS
- ISDN: ISDN PRI, ETSI EURO ISDN, ANSI N12, DMS Switch, 5ESS Switch, Japan IS51500, QSIG supplementary services, Australian Telecom, New Zealand Telecom, Hong Kong Variant, Korean MIC and others, V3, 4, 6 (French variant)
- SIGTRAN: M3UA/M2UA/UA/DUA adaptation layers (over SCTP)
- SS7: SS7 and TDM Tunneling application (peer-to-peer tunneling)
- SS7: TFTP point code sharing

**IP Transport**
- E1P: RFC 3550, RFC 3551 RTP/RTCP Transport, TCP, UDP, SCTP

**Access Gateway Control & Management**

**Control Protocols**
- SIP, H.323, MEGACO (H.248), and MGCP
- AudioCodes' extensive TPNCAP API over IP

**TPNCAP API Supported OS**
- Windows™ NT, 2000, XP, Linux™ - Solaris™ on Intel™/Sparc™

**Operations Management**
- User friendly GUI via Embedded Web Server
- Centralized Element Management System, SNMP v3
- Remote configuration and software download via FTP/Boot & HTTP, Syslog, Telnet (for CLI)

**Security**
- IPSec – for control protocols and for Management Interfaces
- HTTPS - SRTTP - TLS, Telnet SSL, IP access list, Radius Login

**Interfaces**
- Ethernet: Dual Redundant 10/100 BASE-T Ethernet ports via 2 RJ-45 connectors on RTM
- Telephony Interface: 16 E1/T1/J1, or using dual 50-pin Telco connectors on RTM or up to 8 E1/T1/J1/slash spans using E1/48b connectors

**Hardware Specifications**
- Power Supply: Single universal 90-260 V AC or dual-redundant AC or single -48 V DC
- Physical: 1U high, 19-inch wide rack mount

**Regulatory Compliance**
- Telecommunication: FCC part 68, TRPA and TRB13
- Safety and EMC Standards: UL60950, FCC part 15 Class A, CE Mark (EN55022 Class A, EN60950, EN50524, EN300 386)
- Environmental: NEBS Level 3: GR - 63-Core (DC-powered model), GR - 089-Core Type 1 & 3, ETS300 019

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**About AudioCodes**

AudioCodes Ltd. (NASDAQ: ACDC) 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 wide 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 R&D in the U.S. Other AudioCodes’ offices are located in Europe, India, the Far East, and Latin America.

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Ref. # TMN-40003 06/07 V5