

# Mediant™ 2000 VoIP Media Gateway



- Deliver competitive, complete, best-of-breed media gateway functionality featuring highest voice quality
- Meet the demands of converged, wireless, wireline, cable broadband access and fixed-mobile converged VoIP networks from a single media gateway platform
- Increase flexibility with a media gateway that supports a wide variety of call control protocols and scales down to meet the demand of enterprises and small carrier POPs
- Integrate 3G and 2G packet-enabled media gateway functionality into an end-to-end system solution
- Meet the needs for VoIP Trunking, IP Centrex, and VoIP Access Gateway markets with a right-sized and cost-effective media gateway
- Deploy globally with a rich offering of PSTN interfaces and signaling
- React quickly to dynamic market requirements

The **Mediant™ 2000** VoIP Gateway is a member of AudioCodes' family of market-ready, standards-compliant, media gateway systems. Designed for wireline, wireless, cable, and broadband access the Mediant 2000 is currently utilized by enterprise and service providers. This Media Gateway is intelligently packaged in a stackable 1U chassis and is the right-sized solution for small-scale needs. Incorporating AudioCodes' leading Voice over Packet technology, the Mediant 2000 enables Network Equipment Providers (NEPs) and System Integrators (SIs) rapid time-to-market and reliable cost-effective deployment of next-generation networks. The gateway is based on VoIPerfect™ architecture, AudioCodes' underlying best-of-breed core media gateway technology for all of its products.

## 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 Adaptors (MTAs), PacketCable solutions and Broadband 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



\* wireless version previously named "Stretto 2000"

# AudioCodes Voice Network Products for Wireline, Wireless, Cable and Converged Applications

## Mediant™ 2000

### SPECIFICATIONS

#### Capabilities

Capacity	<b>VoIP LBRs:</b> Up to 30, 60, 120, 240 or 480 independent, simultaneous Wireline LBR VoIP voice calls <b>GSM/UMTS:</b> Up to 60, 120, 240 or 480 independent, simultaneous GSM/UMTS and Wireline LBR VoIP voice calls <b>CDMA:</b> 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 spans
Voice Coders	<b>VoIP:</b> G.711, G.723.1, G.726/7, G.729A/B, GSM-FR, NetCoder <b>CABLE:</b> G.711, G.723.1, G.726/7, G.729A/B, G.728 <sup>1</sup> , G.729E <sup>1</sup> <b>GSM/UMTS:</b> GSM-FR, GSM-EFR, AMR (8 rates) & VoIP Coders <b>CDMA:</b> EVRC, QCELP 8k, QCELP 13k & VoIP Coders Independent dynamic vocoder selection per channel (within each group)
Echo Cancellation	G.165 and G.168 compliant, 32, 64 or 128 <sup>1</sup> msec tail length
Fax Support	T.38 (IP) compliant Group 3 fax relay and fax bypass ( automatic fallback to G.711) support
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	<b>CAS</b> MF-R1: Wink Start, delay dial, immediate start, FGB, FGD, E911 CAMA MFC/R2 numerous country variants Unique script for each country variant, enabling maximum flexibility of the entire state machine of each CAS protocol <b>ISDN</b> ISDN PRI: ETSI EURO ISDN, ANSI N12, DMS Switch, 5ESS Switch, Japan INS1500, QSIG supplementary services, Australian Telecom, New Zealand Telecom, Hong Kong Variant, Korean MIC and others, VN 3, 4, 6 (French variant)
SIGTRAN	M3UA/M2UA/IUA/DUA adaptation layers (over SCTP) SS7 and TDM Tunneling application (peer-to-peer tunneling) SS7 MTP3 point code sharing
IP Transport	IETF RFC 3550, RFC 3551 RTP/RTCP Transport, TCP, UDP, SCTP

#### Media 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 TFTP & Boot, HTTP, Syslog Telnet (for CLI)
Security	• IPSEC <sup>1</sup> – for control protocols and for Management Interfaces • HTTPS • SRTP • 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 using dual 50-pin Telco connectors on RTM or up to 8 E1/T1/J1 spans using RJ-48c 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 Standards	FCC part 68 TBR4 and TBR13
Safety and EMC Standards	UL60950, FCC part 15 Class A, CE Mark (EN55022 Class A, EN60950, EN55024, EN300 386)
Environmental	NEBS Level 3: GR - 63-Core (DC-powered model), GR -1089-Core Type 1 & 3, ETS300 019

<sup>1</sup> Reduced channel capacity

### ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUCD) 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 VoIPerfect™ – 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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