

AudioCodes Voice Network Products for Wireline Applications

Mediant™ 2000 VoIP Media Gateway



- Meet the needs for VoP Trunking, IP Centrex, and VoP 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
- Offer differentiated gateways from a single platform
- Deliver competitive, complete, best-of-breed media gateway functionality

The **Mediant™ 2000** VoIP Gateway is the cost-effective, entry-level member in the AudioCodes family of market-ready, standards-compliant, media gateway systems. Intelligently packaged in a stackable 1U chassis designed for enterprises or for smaller locations in the carrier network market, the Mediant 2000 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 Mediant 2000 is based on VolPerfect™ architecture, AudioCodes' underlying, best-of-breed, core media gateway technology for all of its products.

DEPLOY BEST-OF-BREED RIGHT-SIZED SYSTEMS

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.

DELIVER NEW SOLUTIONS FASTER

Immediately address new opportunities in emerging markets with the most flexible, small-scale customizable solution available. The Mediant 2000 VoIP Gateway system's standards-based control interfaces and protocols, and open architecture, ensure easy integration with new products and services.

CREATE FLEXIBLE PRODUCTS AND SERVICES

The Mediant 2000 VoIP Gateway system enables NEPs to immediately address opportunities that utilize a myriad of legacy circuit-switched infrastructure features and functionalities. The Mediant 2000 extends the flexibility of the Mediant Media Gateway family with additional deployment options – made available by providing smaller size and finer granularity of the digital trunk scalability options. The Mediant 2000's open platform offers NEPs the option to add one Single Board Computer (SBC) to run complementary applications within the Mediant chassis.

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.

The Mediant 2000 is part of AudioCodes' complete family of VoP (Voice over Packet) gateway products for new voice infrastructure networks.

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); SS7 peer-to-peer tunneling over IP
- Flexible deployment options
- Packet telephony standards-compliant
- Small footprint
- Expansion slot for Application Processor
- Wide support of PSTN protocol termination

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Mediant™ 2000

SPECIFICATIONS

Capabilities	
Capacity	Options for 1,2,4,8, and 16 spans of independent, simultaneous VoP calls
Voice Coders	G.711, G.723.1, G.726, G.728, G.729A, NetCoder® Independent dynamic vocoder selection per channel
Echo Cancellation	G.165 and G.168 2000, with 32, 64* or 128* msec tail length
Fax Support	T.38 compliant group 3 fax relay
DTMF	Packet side or PSTN side detection and generation, RFC 2833 compliant
Voice over Packet Capabilities	Call progress tones, VAD, CNG, Dynamic programmable jitter buffer, Modem detection and auto switch to PCM or ADPCM
Application Processor	Single Board Computer using optional Sun or Intel SBC
Signaling & Transport	
PSTN	PSTN PROTOCOL TERMINATION CAS MF-R1: Wink Start, delay dial, immediate start, FGB, FGD MFC/R2 numerous country variants Unique script for each county variant, enabling maximum flexibility of the entire state machine of each CAS protocol ISDN ISDN PRI: ETSI EURO ISDN, ANSI NI2, DMS Switch, 5ESS Switch, Japan INS1500, QSIG Basic Call, Australian Telecom, New Zealand Telecom, Hong Kong Variant, Korean MIC and others SIGTRAN Up to 16 PRI LAPD links termination, IUA/SCTP Up to 16 SS7 MTP2 links termination, M2UA/SCTP (for backhauling to MGC or peer-to-peer tunneling) Up to 16 SS7 MTP3 links termination, M3UA/SCTP
IP Transport	IETF RFC 1889, RFC 1890 RTP/RTCP Transport, TCP, UDP
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 v2 Remote configuration and software download via TFTP & Boot
Interfaces	
Ethernet	Dual Redundant 10/100 Base-T Ethernet ports via 2 RJ-45 connectors on RTM
Telephony Interface	Up to 8 E1/T1/J1 spans using RJ-48c connectors or 16 E1/T1/J1 using dual 50-pin Telco connectors on RTM
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 B, CE Mark (EN55022 Class B, EN60950, EN55024, EN300 386)
Environmental	NEBS Level 3: GR - 63-Core (DC-powered model), GR -1089-Core Type 1 & 3, ETS300 019

* May reduce channel capacity

APPLICATIONS

- VoIP Trunking Gateway
- IP Centrex Gateway
- VoIP Access Gateway

ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUCD) enables the new voice infrastructure by providing innovative, reliable and cost-effective Voice over Packet technology and Voice Network products to OEMs, network equipment providers and system integrators. AudioCodes provides its customers and partners with a diverse range of flexible, comprehensive media gateway and media processing technologies, based on VoIPerfect™ – AudioCodes' underlying, best-of-breed, core media gateway architecture. The company is a market leader in voice compression technology and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the wireline, wireless, broadband access, and enhanced voice services markets. AudioCodes enabling technology products include VoIP and CTI communication boards, VoIP media gateway processors and modules, and CPE devices.

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