

Mediant™ 1000 VoIP Media Gateway



- Employs AudioCodes VolPerfect™ technology for outstanding voice quality
- Scalable “pay-as-you-grow” modular architecture
- Rich offering of digital (E1/T1/J1), analog (FXS/FXO), and BRI interfaces
- Cost-efficient for low density gateways
- Lifeline fallback to PSTN in case of power failure or network degradation
- PSTN fallback for assured connectivity
- Internal OSN Server for hosting 3rd party application
- An ideal match as a platform for IP-PBX
- Media processing and conferencing option
- Branch survivability for service continuity

The **Mediant™ 1000** is AudioCodes' cost-effective, converged wireline VoIP media gateway. Intelligently packaged in a stackable 1U chassis, it is designed to interface between TDM & IP networks in enterprises or small-scale carrier locations. Incorporating AudioCodes' innovative Voice over Packet technology, the Mediant 1000 enables rapid time-to-market and reliable cost-effective deployment of next-generation networks.

The Mediant 1000 is based on VolPerfect™, AudioCodes' underlying, best-of-breed, media gateway core technology for all of its products. The Mediant 1000 provides superior voice-technology for connecting legacy telephone and PBX systems to IP networks, as well as seamless connection of the IP-PBX to the PSTN. In addition to operating as a pure media gateway, the Mediant 1000 can also host partner applications and serve as an IP-PBX platform. The Mediant 1000 is fully interoperable with multiple vendor gateways, softswitches, gatekeepers, proxy servers, IP phones, Session Border Controllers and firewalls.

SCALE UP AS YOUR BUSINESS GROWS

The Mediant 1000 matches the density requirements for small locations while meeting enterprises' and service providers' demands for scalability. The compact Mediant 1000 Modular Gateway is extremely scalable and supports multiples of 1, 2, or 4 E1/T1/J1 spans, 4 to 20 BRI ports or 1 to 24 analog ports in various FXO/FXS configurations. The Mediant 1000 also supports mixed digital/analog with media processing capabilities such as conferencing, play/record configurations.

The Mediant 1000 can support a variety of telephony interfaces. The digital module can be configured as regular E1/T1/J1 interfaces, with up to 1 or 2 paired spans acting as life-line interfaces for switching to the PSTN in case of power failure or network problems. The analog module is available as regular FXS or FXO interfaces, where 1 FXS line can be used as a life-line interface for switching to the PSTN.

Interface Modules:

- Digital (E1/T1/J1) – connecting the PSTN or PBX to the IP-network
- Analog FXS – connecting analog phones and fax machines to the IP-network
- Analog FXO – connecting analog lines from the Central Office (CO) or PBX to the IP network
- BRI – connecting to PBXs or the PSTN

BRANCH SURVIVABILITY, SECURITY AND QoE FOR CLOUD SERVICES

With support for the integrated Cloud Resilience Package (CRP) and Standalone Survivability (SAS) features, the Mediant 1000 facilitates local internal calling and PSTN fallback for making and receiving external calls during WAN interruptions, along with advanced security features and quality of experience (QoE) tools.

SEAMLESS INTERFACE WITH LEGACY ENTERPRISE NETWORKS

The Mediant 1000 has enhanced hardware and software capabilities to ease its installation and to help maintain voice quality. If the measured voice quality falls beneath a pre-configured value, or the path to the destination is disconnected, the Mediant 1000 can assure voice connectivity by falling back to the PSTN. In the event of network problems, calls can be routed back to the PSTN without requiring routing modifications in the PBX. Further reliability is provided by dual Ethernet ports and optional dual AC power supply.

3RD PARTY APPLICATION PLATFORM

The Mediant 1000 extends the flexibility of the Media Gateway family with additional deployment options. The open platform on the Mediant 1000 offers partners the option to host their own applications (e.g., IP-PBX, call center, conferencing and messaging applications) using the OSN (Open Solution Network) Server platform, including a powerful processor and hard disks to provide a complete solution within the Mediant 1000 chassis along with rich SIP gateway features.

AudioCodes CPE & Access Gateway Products

Mediant™ 1000

SPECIFICATIONS

Interfaces	
Modularity and Capacity	Voice interface: Equipped with 6 Slots that can host voice modules, up to a maximum of 24 analog ports or 4 digital spans
Digital Modules	1, 2 or 4 E1/T1/J1 spans using RJ-48c connectors per module, up to 4 digital modules (maximum 4 spans per gateway) Optional 1+1 or 2+2 fallback spans
Analog FXO and FXS Modules	4 ports using RJ-11 connectors per module; Up to 6 modules per gateway, Ground Start and Loop Start
BRI Module	4 BRI ports (8 calls) per module, up to 5 modules per gateway with S/T interfaces Supports Euro ISDN, NI2, 5ESS or QSIG
Media Processing Module	Hosting media processing features: conferencing, play/record over HTTP or NFS
Ethernet	Dual Redundant 10/100 Base-TX Ethernet ports via 2 RJ-45 connectors
RS-232	Debugging and SMDI configuration

Media Processing	
Voice Coders	G.711, G.726, G.727, G.723.1, G.729, GSM FR, MS GSM, iLBC, EG.711, EVRC, QCELP, AMR, GSM EFR, G.722 Independent dynamic vocoder selection per channel
Echo Cancellation	G.165 and G.168-2002, with 32, 64 or 128 tail length
Quality Enhancement	Dynamic programmable jitter buffer, VAD, CNG, 802.1p/Q VLAN tagging, DiffServ, voice quality monitoring, G.729B, RTPCXR
DTMF/MF Transport	Packet side or PSTN side detection and generation, RFC 2833 compliant DTMF relay Call Progress tones detection and generation
IP Transport	VoIP (RTP/RTCP) per IETF RFC 3550 and 3551
Fax and Modem Transport	T.38 compliant (real time fax), Automatic bypass to PCM or ADPCM

OSN Server Platform - Embedded, Partner Application Platform for third party services			
OSN Types	OSN1	OSN2	OSN3 ² (ON AMC Chassis)
CPU	Intel® Celeron® 600 Mhz	Intel® Pentium® M 1.4 GHz	Intel® Core™2 Duo
Memory	One SODIMM slot 512M or 1G RAM	1G or 2G RAM	Two SODIMM slots 2-4 G RAM, ECC support
Storage	Single/Dual hard disk drives	Single SATA HDD	Single or Dual SATA HDD
Interfaces	10/100 Base-TX, USB, RS-232, NB relay, MOH	10/100 Base-TX, USB, RS-232, VGA	1000 Base-TX, USB, RS-232

Signaling	
Digital -PSTN Protocols	CAS: MF-R1: T1 CAS (E&M, Loop, Start, Feature Group-D, E911CAMA) E1 CAS (R2 MFC), R1.5 numerous protocol and country variants ISDN PRI: ETSI/EURO ISDN, ANSI NI2 and other variants (DMS100, 5ESS) QSIG (Basic and supplementary), IUA (SIGTRAN), VN3, VN4, VN6
Analog Signaling	FXS; Caller ID; polarity reversal; metering tones, distinctive ringing, visual message waiting indication, Loop Start, Ground Start

Control & Management	
Control Protocols	SIP, MSCML, H.323 (MEGACO - for digital trunks) ¹
Operations & Management	AudioCodes Element Management System Embedded HTTP Web Server, Telnet, SNMP V2, V3 Remote configuration and software download via TFTP, HTTP, HTTPS, DHCP and BootP, RADIUS, Syslog (for events, alarms and CDRs), Auto Update

Security	
	IPSEC, HTTPS, TLS (SIPS), SSL, Web access list, RADIUS login and SRTP

Hardware Specifications	
Power Supply	100-240V, 50-60Hz, 1.5A Max, Single (default) or redundant (optional) power supply configurations
Physical	1U high, 19-inch wide

Regulatory Compliance	
Telecommunication Standards	TIA/EIA-IS-968, TBR-4, TBR-13, and TBR-21
Safety and EMC Standards	UL60950-1; FCC 47 CFR part 15 Class B CE Mark (EN5022 Class B, EN60950-1, EN5024, EN300 386, EN61000-3-2/3-3)
Environmental Specifications	ETS 300019-2-1 Storage T1.2, ETS 300019-2-2 Transportation T2.3 ETS 300019-2-3 Operating T3.2

APPLICATIONS

- PBX Networking
- IP Centrex/Hosted IP-PBX
- Partner Applications (e.g., IP-PBX, Call Center, Conferencing Messaging)
- Remote Office Applications

ABOUT AUDIOCODES

AudioCodes Ltd. (NasdaqGS: AUCD) designs, develops and sells advanced Voice over IP (VoIP) and converged VoIP and Data networking products and applications to Service Providers and Enterprises. AudioCodes is a VoIP technology market leader focused on converged VoIP & data communications and its products are deployed globally in Broadband, Mobile, Enterprise networks and Cable. The company provides a range of innovative, cost-effective products including Media Gateways, Multi-Service Business Routers, Session Border Controllers (SBC), Residential Gateways, IP Phones, Media Servers and Value Added Applications. AudioCodes' underlying technology, VoIPerfectHD™, relies on AudioCodes' leadership in DSP, voice coding and voice processing technologies. AudioCodes High Definition (HD) VoIP technologies and products provide enhanced intelligibility and a better end user communication experience in Voice communications.

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¹ Some PSTN variants may not be supported with all control protocols

² OSN3 can be used on the Mediant 1000B Chassis only (with AMC support)