Mediant™ 3000

The Mediant™ 3000 is a feature-rich, highly available VoIP gateway supporting low to medium channel densities. The Mediant 3000 compact footprint (2U) meets both the needs of service providers with geographically dispersed networks, as well as those of large enterprises, where reliable and dense VoIP gateways are necessary for business-critical communications.

**MEDIAN 3000 IN SERVICE PROVIDER NETWORKS**
Service Providers are currently migrating from centralized legacy TDM networks to decentralized IP networks. The Mediant 3000 is aligned with these developments, offering exceptional channel scalability of up to 2016 DSOs in a compact 19”-2U chassis, allowing it to be placed in small POPs, close to local telephone networks. Additionally, the Mediant 3000 delivers the same carrier-grade availability that service providers are accustomed to on their legacy equipment. A wide range of trunking and access protocols to suit any application are provided, such as PRI, V5.2 and CAS access protocols and SS7/M2UA/M3UA trunking protocols. The Mediant 3000 fits the needs of wireline, cable, cellular and mixed service providers.

**MEDIAN 3000 IN LARGE ENTERPRISES**
The migration to VoIP in the enterprise is driven by cost considerations and the need for a richer, integrated telephony service. This transition leads to heterogeneous enterprise telephony networks that deploy multiple PBXs from various vendors, some of which are legacy and some of which are IP-based. An enterprise might choose to connect to a PSTN Service Provider or to an Internet Telephony Service Provider (ITSP) or both. The Mediant 3000 has comprehensive PSTN access capabilities as well as SIP to SIP interworking features that enable the interconnection between all these elements. Large enterprises typically deploy business critical contact centers where the high availability of the Mediant 3000 is a key factor. In addition to E1/T1 interfaces, the Mediant 3000 supports high-density PSTN interfaces, such as T3, STM-1 and OC3 to provide the enterprise with lower PSTN lease costs. The proven interoperability of the Mediant 3000 with different PBXs and PSTN switches facilitates smooth deployment.
### Specifications

#### Media Processing

**Capacity**
Up to 2,016 channels in simplex or redundant configuration

**Voice Coders**
- High Definition Voice Coders: G.722, G.722.2 (Wideband AMR), G.729.1 (Wideband G.729), RTA-WB, SPEEX, SILK
- MS GSM, ILBC
- GSM/UMTS: GSM-FR, GSM EFR, AMR, AMR-WB
- CDMA: EVRC, EVRC-B
- Independent dynamic vocoder selection per channel (within each group)
- Not all coders can be used simultaneously

**Echo Cancellation**
G.165 and G.168-2002 compliant, with 32, 64 or 128 ms tail length

**Fax and Modem Transport**
Fax/Modem Detection Control, T.38 (IP) compliant Group 3 & SG3 fallback to T.30, V.34 fax and modem bypass (automatic fallback to G.711) support

**DTMF/MF**
IP-side or PSTN-side detection and generation, RFC 4733 compliant DTMF relay Detection and Generation of Call Progress tones, Answer Machine Detection

**Quality Enhancement**
VAD, CNG, dynamic programmable jitter buffer, 802.1p/Q VLAN tagging, DiffServ

#### Signaling

**PSTN Access**
E1 ISDN: EuroISDN, QSIG, Australia, Hong Kong (HKT), Korea, France, New Zealand, INS-1500 (Japan), VN3, VN4, VN6 (France); T1 ISDN: N12, 4ESS, 5ESS, DMS1001: E1 CAS: MFC-R2 (multiple variants), T1 CAS: E&M, Ground Start, LoopStart; V5.2, IUA

**PSTN Trunking**
SS7/Sigtran: M3UA, M2UA, Redundancy (1+1), SS7 Tunneling

**IP Transport**

**Control Protocols**
MGCP (RFC 3435), TGC (PacketCable), MEGACO (H.248, RFC 3015), SIP (RFC 3261)

**Security**
IPSEC, IKE, SIP/TLS, HTTPS, SSH, SRTP and AES

**SIP IP - IP Mediation**
SIP - SIP Normalization, Network Topology Hiding, Transcoding and Conversion, Signalizing Translation, Multiple Service Provider Connectivity and Load Balancing, Redundancy between Servers/Softswitch, Survivability (SAS)

#### Maintenance

**Management**
AudioCodes Element Management System, SNMPv2, SNMPv3, CLI, Telnet, WEB, Microsoft System Operations Manager (SCOM), Remote configuration and software download via TFTP, HTTP, HTTPS, DHCP and Bootstrap, Syslog

**Maintainability**
All shelf modules are hot swappable, including boards, power supplies, fans, and power entry modules

**Redundancy Scheme**
Power supply, fans: N+1 load shared Media gateway blades (including PSTN interfaces): 1+1 Optical interfaces (PSTN): 1+1, APS protected

#### Hardware Specifications

**Interfaces**
- PSTN: 1 OC-3 or STM-1 APS optical links, 1 to 3 T3 (DS3) electrical links, up to 63/84 E1/T1 links
- IP: Dual Redundant 100/1000 Base-T/1000 Base-SX Ethernet ports and additional two Dual Redundant 100 Base-T Ethernet ports for OEM and Control (Available on the E1/T1 configuration only)
- Clock Synchronization: BITS/SETS (GR-1244 Stratum-3 and G.813 compliant), line synchronization (via STM-1/OC-3 link or DS1 trunk)

**Enclosure**
4-slot, 2u cPCI chassis

**Dimensions (HxWxD)**
88 mm x 482.6 mm x 296.8 mm

**Weight**
Approx. 35.27 lb (16 kg), fully loaded

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

**Power**
48 V DC Dual Feed, with up to 2 DC Power modules, 100-240 V AC redundant Dual Feed

**Cooling**
Replaceable fan tray & filter

#### Regulatory Compliance

**Telecommunication Standards**
FCC part 68, TBR4 and TBR13, Anatel

**Safety and EMC Standards**
- UL60950
- FCC part 15 Class A
- CE Mark (EN55022 Class A, EN60950, EN55024, EN300 386)

**Environmental**
NEBS Level 3: GR-69-Core, GR-1089-Core, Type 1 & 3, ETS300 019

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1 Reduced channel capacity

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AudioCodes VoIP Media Gateway for Service Provider and Enterprise Applications

### About AudioCodes

AudioCodes Ltd. (NasdaqGS: AUDC) 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 Gateways, Session Border Controllers (SBC), Residential Gateways, IP Phones, Media Servers and Value Added Applications. AudioCodes’ underpinning 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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**International Headquarters**
1 Hayarden Street, Airport City Lod 70151, Israel
Tel: +972-3-976-4000
Fax: +972-3-976-4040

**AudioCodes Inc.**
27 World’s Fair Drive, Somerset, NJ 08873
Tel:+1-732-469-0880
Fax:+1-732-496-2298

**Contact us:** www.audiocodes.com/info
**Website:** www.audiocodes.com

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