AudioCodes CPE & Access Gateway Products

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 leader focused on VoIP communications, applications and networking elements, and its products are deployed globally in Broadband, Mobile, Cable, and Enterprise networks. The company provides a range of innovative, cost-effective products including Media Gateways, Multi-Service Business Gateways, Residential Gateways, IP Phones, Media Servers, Session Border Controllers (SBC), Security Gateways and Value Added Applications. Audio-Codes underlying technology, VolPerfectHD™, relies primarily 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 emerging Voice networks.

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Mediant[™] 800 MSBG



BENEFITS FOR SERVICE PROVIDERS

- A highly integrated device for VoIP, Data, Security & Access, forming a single managed point of demarcation
- SIP Mediation that enables secured SIP Trunking in a variety of IP-PBX environments
- Simplified management & maintenance using a unified management tool
- Standalone Survivability
- Quality of Experience (QoE) lifecycle management solution

BENEFITS FOR SMB CUSTOMERS

- "All-in-one" box reducing CAPEX and OPEX, simplifying maintenance and management
- Smooth connectivity to cloud services
- Enhanced Voice and Data Security, based on an embedded Enterprise-Class Session Border Controller and Firewall
- SIP mediation for flexible SIP Trunking service
- Multiple service provider connectivity to optimize tariff rates
- Ready for hosting IP-PBX applications and additional office Value Added Services for increased productivity

BENEFITS FOR OEM AND VALUE ADDED SERVICES DEVELOPERS

- An integrated and compact platform, ready for hosting a variety of business applications
- Relieving interoperability and integration "pains" with Media Gateways, Media Servers, SBCs, Routers, etc.
- Built-in SIP-controlled media processing resources for advanced voice applications (Conferencing, Streaming, etc.)
- Embedded SIP mediation and transcoding, enabling SIP trunking services
- Enhanced Voice and Data Security

PRODUCT HIGHLIGHTS

- A direct evolution of the field-proven and highly interoperable Mediant 1000 MSBG, MediaPack and Mediant VoIP gateways
- Enterprise-Class Session Border Controller
- IP-to-IP Protocol normalization and Media transcoding
- Full Data security suite including Firewall, IDS/IPS, VPN & SSL
- Support wireline and wireless LAN access
- Integrated static as well as dynamic routing capabilities
- Advanced Media Processing and generic application processor
- Embedded BroadSoft PacketSmart agent for QoE lifecycle management



Multi-Service Business Gateway

AudioCodes Mediant™ 800 MSBG is an all-in-one, Multi-Service Business Gateway solution, designed to provide converged Voice & Data services for small-to-mid size business (SMB) customers, and to form a well-managed point of demarcation for service providers. The Mediant 800 MSBG is based on AudioCodes' VolPerfectHD best-of-breed Media Gateway technology, integrating a variety of communication functions into a single platform to support fundamental services, such as VoIP mediation, Data Routing, WAN access, Voice & Data security, survivability, and third party value-added services applications. These services allow smooth connectivity to cloud services.

BEST-OF-BREED SMALL-TO-MID-SIZE ENTERPRISE CLASS MEDIA GATEWAY

AudioCodes Mediant 800 MSBG is built upon a highly interoperable VoIP Media Gateway that can be delivered in several pre-defined configurations, supporting a single E1/T1/J1 trunk, up to 4 BRI ports (8 calls) or up to 12 analog (FXS/FXO) ports. In addition, the Mediant 800 MSBG provides enhanced dialing plans and voice routing capabilities along with SIP to SIP mediation, allowing business customers to enjoy the benefits of SIP Trunking services, IP Centrex connectivity, Unified Communications, as well as flexible PSTN and legacy PBX connectivity to VoIP.

LAN, DATA ROUTING AND WAN ACCESS

AudioCodes Mediant 800 MSBG is optimized for wire-speed delivery of data and wireless services supporting up to 8 10/100 Base-TX and 4 10/100/1000 Base-T PoE LAN ports (802.3af) and an integrated WiFi (802.11a/b/g/n) Access Point. The Integrated switch modules enable support for IP Phones and other PoE-powered devices. The Mediant 800 MSBG is equipped with a versatile WAN interface supporting 10/100/1000 copper and optical GigaBit Ethernet, and a selection of serial data transmission interfaces, providing great flexibility in connecting to Service Provider networks. Data routing capabilities are provided by static as well as dynamic routing protocols, including support for RIP, OSPF and BGP.

SESSION BORDER CONTROLLER (SBC) AND SECURITY SERVICES

AudioCodes Mediant 800 MSBG is designed as a secured VoIP and Data platform. Enhanced Media Gateway security features include encryption schemes, such as SRTP for media, TLS for SIP control, IPSec for management, and additional features. A fully featured Enterprise-class Session Border Controller provides a secured voice network deployment, based on the embedded Back-to-Back User Agent (B2BUA). Data Security functions include integrated Stateful Firewall, IDS/IPS, and SSL for remote user access and site to site VPN.

QUALITY OF SERVICE (QOS) AND QUALITY OF EXPERIENCE (QOE)

AudioCodes Mediant 800 supports enhanced IP Quality of Service (QoS) enforcement and Quality of Experience (QoE) Monitoring. Leveraging a BroadSoft PacketSmart embedded agent - a SaaS-based lifecycle management solution, the Mediant 800 enables service providers and multi-site enterprises to assess networks, certify VoIP deployments, and measure, monitor, track, and help optimize the QoE of their VoIP services. The PacketSmart solution is either offered as a public cloud service or within the customer's data center in a private cloud deployment. AudioCodes' Mediant 800 also supports enhanced IP Quality of Service (QoS), including Ethernet frame tagging (802.1P), IP packet marking (Diffserv), and traffic shaping.

SURVIVABILITY SERVICES

Customers served by a centralized, SIP-based IP Centrex server or branch offices of distributed enterprises, may face service discontinuities in case of a WAN failure. The integrated SAS (Stand Alone Survivability) feature of the Mediant 800 enables internal office communication between SIP clients (e.g. IP Phones), along with PSTN fallback, in case of disconnection from the centralized IP Centrex server or IP-PBX.

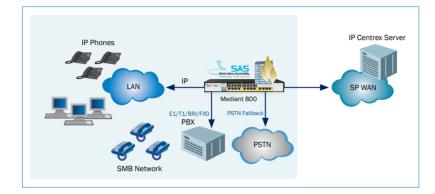
VALUE ADDED SERVICES BY AN OPEN PLATFORM FOR 3RD PARTY APPLICATIONS AudioCodes Mediant 800 MSBG extends the flexibility of the Multi-Service Business

Gateway with the built-in Open Solution Network (OSN) server option (based on an Intel processor). Independent Software Vendors and OEM customers can utilize this integrated, general purpose server to host their own applications (e.g. IP-PBX, IVR, Call Center, Conferencing, and more). In addition, an advanced, on-board DSP Resource Farm enables the implementation of narrowband as well as wideband/High Definition VoIP (HD VoIP) media processing services, such as announcements, recording, IVR, conferencing and transcoding, all controlled by standard protocols (e.g., SIP and MSCML). Utilizing AudioCodes dedicated DSP resources, enables a more robust and predictable voice performance, as compared to typical software implementations, based on general purpose CPU's.

MediantTM 800 Multi-Service Business Gateway

MEDIANT 800 MSBG IN SERVICE PROVIDER NETWORKS

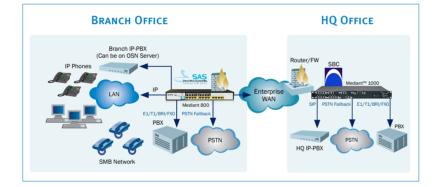
As SMB's strive to control their communication operating and equipment costs, outsourcing a Voice and Data infrastructure to a Service Provider is becoming an attractive option. The Mediant 800 MSBG offers service providers who are delivering hosted and managed communication services, a clear and easy-to-manage demarcation point, combining Data Routing and Security, WAN Access, Secured VoIP and the Stand Alone Survivability feature, Using the Mediant 800 MSBG. Service Providers' SMB customers can easily and securely consume cloud-based SaaS services.



MEDIANT 800 MSBG IN DISTRIBUTED ENTERPRISE NETWORKS

Enterprises are motivated to be more productive, efficient, and responsive to their internal users. The convergence of secured voice services, Stand Alone Survivability, Data Routing, Security and WAN Access into a branch office's unified platform, ensures a high level of investment protection, cost-optimization and support for the growing communication needs of the Enterprise.

The Mediant 800 can be utilized at the company's remote branches, providing a suite of services, which include secured SIP Trunking by an Enterprise-class Session Border Controller, a survivable VoIP media gateway and a cost-effective IP-PBX platform. In addition, the higher density Mediant 1000 MSBG is a well-suited platform for converging VoIP Gateways and a Session Border Controller, thereby improving the enterprise headquarter's service level.



TARGET APPLICATIONS

- SIP Trunking
- IP Centrex and hosted services
- IP-PBX for SMB/SOHO
- Remote connection to IP-PBX in distributed Enterprise branches
- Unified Communications mobility and Value Added Services for SMB/SOHO

SPECIFICATIONS

| Interfaces | |
|--------------------------------|--|
| PSTN Capacity | Voice interfaces: The Mediant 8000 is equipped with up to 12 analog PSTN interfaces, 4 BRI and single E1/T1/J1 span |
| Digital Interfaces (Optional) | Single span E1/T1/ using RJ-48c connectors 4 BRI ports using RJ-48c connectors |
| Analog Interfaces (Optional) | 4 ports FXO, 4 FXS ports, 8 FXS ports, 12 FXS ports or 12 FXO ports using RJ-11 connectors Option of 1 FXS Lifeline ports in case of power failure |
| BRI Interfaces (Optional) | 4 BRI ports (8 calls), network S/T interfaces. NT or TE termination |
| Networking Interfaces | |
| WAN (Optional) | WAN interface 10/100/1000 Base-T Copper Support for T1, SHDSL*, ADSL2+* |
| LAN | 2 configurations: 4 ports 10/100/1000Base-T plus additional 8 10/100Base-TX ports, 2 ports 10/100/1000Base-T |
| | PoE- Power-Over Ethernet on all ports is optional (Compliant to 802.3af-2003 with auto-detection Up to 15.4W per port), PoE management |
| WiFi* (Optional) | WiFi Access Point support for 802.11 a/b/g/n |
| OSN Server Platform (Op | tional) |
| Single Chassis Integration | Embedded, open Network Solution Platform for third-party services |
| CPU | Intel Atom 1.6 GHz |
| Memory | 1G RAM |
| Storage | SATA storage |

| Media Processing | |
|---|--|
| Voice Coders | G.711, G.723.1, G.729A, G.722, AMR-WB |
| voice coders | Independent dynamic vocoder selection per channel |
| Echo Cancellation | G.165 and G.168-2002, with 32, 64 or 128 msec tail length |
| Quality Enhancement | Dynamic programmable jitter buffer, VAD, CNG |
| DTMF/MF Tones | Packet-side or PSTN-side detection and generation, RFC 2833 compliant DTMF relay and Call Progress tones Detection and Generation |
| IP Transport | VolP (RTP/RTCP) per IETF RFC 3550 and 3551, IPv6 Supported |
| Fax Transport | T.38 compliant (real time fax), Automatic bypass to PCM |
| Signaling | 1.55 complaint from the participant of the particip |
| 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 |
| Digital - 1 OTN 1 Totocols | ISDN PRI: ETSI/EURO ISDN, ANSI NI2 and other variants (DMS100, 5ESS), VN3, VN4, VN6 ISDN BRI: Euro ISDN, VN4/6 or QSIG |
| Analog Signaling | Loop Start FXS/FXO, Caller ID, polarity reversal, distinctive ringing, visual Message Waiting Indication |
| Data Routing (Optional) | and are trial trial region as beauty to a contribution to the cont |
| Data Routing (optional) | DHCP/PPPoE/L2TP/PPTP client towards WAN |
| | DHCP server towards LAN |
| | VLAN |
| | Layer 3 routing |
| | Internal layer 2 switching |
| | Static and dynamic routing (RIP1, RIP2, OSPF, BGP) |
| Combrol and Management | |
| Control and Management Control Protocols | SIP-TCP, SIP-UDP, SIP-TLS and SIP-MSCML*, IPv6 Supported |
| COTILIOI PIOLOCOIS | |
| Operations 9 Management | Stand alone Survivability for service continuity AudioCodes' Element Management System |
| Operations & Management | Embedded HTTP Web Server, SNMP V2/V3 |
| | Remote configuration and software download via HTTP or HTTPS, RADIUS, Syslog (for events and alarms) |
| ID Wall Consider of Consider | Remote configuration and software download via http://rintips.kabios.sysiog (for events and diarms) |
| IP/VoIP Quality of Service | IFFE 000 4D TOO Different labeling |
| | IEEE 802.1P, TOS, DiffServ labeling |
| | IEEE 802.1Q VLAN tagging |
| | RTCP-XR* (Extended Reports per RFC 3611) |
| | Shaping Policing, Queuing, Bandwidth Reservation (Optional) |
| Security | |
| | CIPUlandan annuarian |
| Session Border Controller (SBC) | SIP Header conversion |
| | SIP Normalization |
| | SIP Normalization Survivability |
| | SIP Normalization Survivability IP-to-IP routing translations of various SIP transport types; UDP, TCP, TLS |
| | SIP Normalization Survivability IP-to-IP routing translations of various SIP transport types; UDP, TCP, TLS Translation of RTP, SRTP |
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| Session Border Controller (SBC) | SIP Normalization Survivability IP-to-IP routing translations of various SIP transport types; UDP, TCP, TLS Translation of RTP, SRTP Support SIP trunk with multi-ITSP (Registrations to ITSPs is invoked independently) Topology hiding Call Admission Control Call Black/White list |
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| Session Border Controller (SBC) | SIP Normalization Survivability IP-to-IP routing translations of various SIP transport types; UDP, TCP, TLS Translation of RTP, SRTP Support SIP trunk with multi-ITSP (Registrations to ITSPs is invoked independently) Topology hiding Call Admission Control Call Black/White list IPsec ESP – Tunnel mode Encryption Authentication |
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^{*}Future Release