AudioCodes Session Border Controller (SBC) Products

Mediant[™] 1000

Hybrid E-SBC and Media Gateway



Benefits

- Fully integrated device for secured SIP trunking and PSTN access
- Hybrid SBC and Media Gateway platform lowers
 CAPEX and reduces space and power footprints
- Scalable "pay-as-you-grow" modular architecture
- Extensive interoperability and partnerships that extend across multiple vendor devices and protocol implementations
- Offers comprehensive security, interoperability and reliability
- Delivers high service performance and voice quality
- Branch office survivability in the event of a WAN Outage

Key Features

- Rich and powerful SIP normalization and routing mechanisms for seamless interoperability
- Hybrid SBC enables seamless migration and PSTN fallback
- . Modular support for analog and digital TDM interfaces
- Perimeter defense against denial of service, fraud and eavesdropping
- VoIP quality monitoring and enforcement
- Media Processing for Transcoding, Gain Control, DTMF/Fax, etc.
- Optional Open Solution Network (OSN) server module for hosting value-added applications

The AudioCodes Mediant 1000 Enterprise Session Border Controller (E-SBC) and Media Gateway offers a complete connectivity solution for small-to-medium sized enterprises.

The Mediant 1000 connects IP-PBXs to any SIP trunking service provider, scaling up to 150 concurrent SBC sessions. It offers superior performance in connecting any SIP to SIP environment, legacy TDM-based PBX systems to IP networks, and IP-PBXs to the PSTN, supporting up to 192 voice channels in a modular 1U platform.

Vast mediation capabilities and proven interoperability
The Mediant 1000 supports a wide range of voice coders and is capable of transcoding between narrowband and wideband voice coders, providing SIP normalization, fax handling, gain control and numerous additional media processing features. It offers certified interoperability with leading unified communications solutions and SIP trunking providers.

Security

The Mediant 1000 provides robust protection for IP communications infrastructure, preventing Denial of Service, fraud and service theft and guarding against cyber-attacks and other service-impacting events.

Reliability

The Mediant 1000 maintains high voice quality to deliver reliable enterprise VoIP communications. Advanced call routing mechanisms, network voice quality monitoring and branch survivability capabilities (including PSTN fallback with E911) result in minimum communications downtime.

Applications

- SIP trunking
- · Hosted PBX & UC as a Service
- · IP contact centers
- · Remote and mobile worker support
- SIP mediation between UC and IP-PBX systems



Mediant[™] 1000

SPECIFICATIONS

150	Max. Transcodin	g Sessions	96
120	Max. Registered	Users	600
6 slots for hosting	g voice processing and PS	TN termination m	odules (up to 192 channels)
J1 spans, with an	option of PSTN Fallback		
Nortel™ DMS-100	0 and others. It also supp	orts different varia	ants of CAS protocols, including MFC
Up to 24 FXS/FX0	O interfaces, provided on	4 ports FXO / FXS	modules, ground / loop start
Up to 4 Media Pro	ocessing modules (MPM)	providing addition	nal DSP resources
Up to 6 GE interfa	aces configured in 1+1 re	dundancy or as in	dividual ports
DoS/DDoS line rate protection, bandwidth throttling, Dynamic Blacklisting			
RTP pinhole management, Rogue RTP detection and prevention, SIP message policy			
TLS, SRTP, HTTPS, SSH, Client/Server SIP Digest authentication, RADIUS Digest			
Topology Hiding, User Privacy			
VLAN/physical interface separation for multiple Media, Control and OAM interfaces			
Detect and mitiga	ate VoIP attacks, prevent	Theft of Service ar	nd unauthorized access
Full SIP transpare	ency, mature & broadly de	ployed SIP stack	
3xx redirect, REFER, PRACK, Session Timer, Early media, Call hold, Delayed offer			
Registration and authentication on behalf of an IP-PBX			
SIP over UDP to SIP over TCP or SIP over TLS, IPv4 to IPv6, RTP to SRTP, V.34 Fax			
Ability to add/mo	dify/delete headers using	advanced regula	r expressions
URI User and Host name manipulations. Ingress & Egress Digit Manipulation			
1 7 7 7			
Coder normalization, including transcoding, coder enforcement and re-prioritization. Extensive vocoder support: NarrowBand: G.711a/mu, G.723.1, G.729A/B, iLBC, EVRC, AMR, G.726, G.727 GSM FR, MS GSM, GSM EFR, QCELP. Wideband: G.722			
60 Conferencing (RFC5022)	legs (3 way or N-way), pla	y, record to IP or P	PSTN using Netann (RFC4240), MSC
Based on bandwi	idth, session establishme	nt rate, number of	f connections/registrations
Hair-pinning of local calls to avoid unnecessary media delays and bandwidth consumption			
AudioCodes Session Experience Manager (SEM)			
Remote verification	on of connectivity, voice of	uality and SIP me	ssage flow between SIP UAs
Request URL, IP	Address, FQDN, ENUM, ad	Ivanced LDAP	
QoE, bandwidth,	SIP message (SIP reques	, Coder type etc)	
Least cost routing, call forking, load balancing			
Embedded, Open	Network Solution Platfor	m for third-party s	ervices
Embedded, Open Up to 8GB RAM	Network Solution Platfor	m for third-party s Storage	ervices HHD or SSD
	Network Solution Platfor		
Up to 8GB RAM			
1U x 320mm x 34 Approx. 5.95lb (2	45mm (HxWxD) 2.7kg) installed with OSN		
1U x 320mm x 34 Approx. 5.95lb (2 Desktop or 19" m	45mm (HxWxD) 2.7kg) installed with OSN nount	Storage	HHD or SSD
1U x 320mm x 34 Approx. 5.95lb (2 Desktop or 19" m Single power sup	45mm (HxWxD) 2.7kg) installed with OSN nount ply 100-240V, 50-60 Hz,	Storage 1.5A max. optiona	HHD or SSD
1U x 320mm x 34 Approx. 5.95lb (2 Desktop or 19" m Single power sup Operational: 0 to	45mm (HxWxD) 2.7kg) installed with OSN nount	Storage 1.5A max. optiona rage: -20 to 70°C	HHD or SSD
1U x 320mm x 34 Approx. 5.95lb (2 Desktop or 19" m Single power sup Operational: 0 to	45mm (HxWxD) 2.7kg) installed with OSN nount ply 100-240V, 50-60 Hz, 40° C (32 to 104°F); Sto	Storage 1.5A max. optiona rage: -20 to 70°C	HHD or SSD
1U x 320mm x 34 Approx. 5.95lb (2 Desktop or 19" m Single power sup Operational: 0 to Relative Humidity	45mm (HxWxD) 2.7kg) installed with OSN nount ply 100-240V, 50-60 Hz, 40° C (32 to 104°F); Sto	Storage 1.5A max. optiona rage: -20 to 70°C ing	HHD or SSD
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	J1 spans, with ar Supporting varion Nortel® DMS-10 R2, E&M immedi Up to 20 BRJ per Fallback. Providir Fallback. Providir Up to 24 FXS/FXI Up to 4 Media Pr Up to 6 GE interfall The Fallback Providir Up to 24 FXS/FXI Up to 4 Media Pr Up to 6 GE interfall The Fallback Providing Transparent TLS, SRTP, HTTPS Topology Hiding, VLAN/physical in Detect and mitigative Transparent Trans	J1 spans, with an option of PSTN Fallback Supporting various ISDN PRI protocols suc Nortel® DMS-100 and others. It also supp R2, E&M immediate start, E&M delay dial, Up to 20 BRI ports provided on BRI module Fallback. Providing S/T interfaces; NT or TI Up to 24 FXS/FXO interfaces, provided on Up to 4 Media Processing modules (MPM), Up to 4 Media Processing modules (MPM), Up to 6 GE interfaces configured in 1+1 re DoS/DDoS line rate protection, bandwidth RTP pinhole management, Rogue RTP dete TLS, SRTP, HTTPS, SSH, Client/Server SIP ITOPOIGN HITPS, SSH, Clien	Supporting various ISDN PRI protocols such as EuroISDN, Nortel® DMS-100 and others. It also supports different varience. E&M immediate start, E&M delay dial / start and others. Up to 20 BRI ports provided on BRI modules. Each module shall be a provided on BRI modules. Each module shall be a provided on BRI modules. Each module shall be a provided on 4 ports FXO / FXS. Up to 24 FXS/FXO interfaces, provided on 4 ports FXO / FXS. Up to 4 Media Processing modules (MPM), providing additionally to 4 Media Processing modules (MPM), providing additionally be a provided on 4 ports FXO / FXS. Up to 4 Media Processing modules (MPM), providing additionally be a provided on 4 ports FXO / FXS. Up to 4 Media Processing modules (MPM), providing additionally be a provided on 4 ports FXO / FXS. Up to 4 Media Processing modules (MPM), providing additionally be a provided on 4 ports FXO / FXS. Up to 4 Media Processing modules (MPM), providing additionally be a provided on 4 ports FXO / FXS. Up to 4 Media Provided on 4 ports FXO / FXS. STP, HTTPS, SSH, Client/Server SIP Digest authenticational proposed by Hills (March Processing Additional Proposed

ABOUT AUDIOCODES

AudioCodes Ltd. (NasdagGS: 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 Routers, Session Border Controllers (SBC), Residential Gateways, IP Phones, Media Servers and Value Added Applications. AudioCodes' underlying technology, VolPerfect HDTM, 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.

International Headquarters

1 Hayarden Street, Airport City Lod 7019900, 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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