

Mediant™ 4000

Session Border Controller

The AudioCodes **Mediant 4000 session border controller (SBC)** is a mid-to-high scale capacity solution for enterprises and service providers, delivering service assurance and enabling scalable, reliable and secured connectivity between different VoIP networks.



Scaling up to 5,000 concurrent sessions, the Mediant 4000 connects IP-PBXs to any SIP trunking service provider and offers superior performance in connecting any SIP to SIP environment.

The Mediant 4000 is a perfect solution for enterprises and large organizations such as contact centers, large data centers, hosted service providers and government institutions where security, reliability and high performance are critical.

**5,000 SBC Sessions | Pure IP SBC | 1+1 High Availability | Certified SBC for Teams Direct
Routing supporting media optimization**



Comprehensive interoperability

Proven interoperability with SIP trunks, SIP platforms and IP cloud services



Flexible licensing

Various licensing options for easy and cost-effective scalability regardless of enterprise size



Enhanced security

Robust perimeter defense against cyber, DoS and DDoS attacks, as well as eavesdropping, fraud and service theft. Complies with Federal Information Processing Standards (FIPS) 140-2 Level 1



Superior voice quality

Advanced capabilities for optimizing and monitoring voice service quality



High resiliency

High availability using 1+1 redundancy and local branch survivability

Specifications

Capacities		
	Mediant 4000	Mediant 4000B
Max. Signaling	5,000	5,000
Max. RTP/SRTP Sessions	5,000/3,000	5,000
Max. Transcoding Sessions	2,400	5,000
Max. Registered Users	20,000	20,000
Network Interfaces		
Ethernet	8 100/1000 Base-T Ethernet ports for physical separation between multiple LAN and WAN between Media, Control and OA&M	
Security		
Access Control	DoS/DDoS line rate protection, bandwidth throttling, dynamic blacklisting (Intrusion Detection System)	
VoIP Firewall	RTP pinhole management, rogue RTP detection and prevention, SIP message policy, advanced RTP latching	
Encryption/Authentication	TLS, DTLS, SRTP, HTTPS, SSH, client/server SIP Digest authentication, RADIUS Digest	
Privacy	Automatic topology hiding, user privacy	
Traffic Separation	VLAN/physical interface separation for multiple media, control and OAMP interfaces	
Certification	FIPS 140-2 Level 1	
STIR/SHAKEN	STIR/SHAKEN support. Interworking with STI-AS/VS	
Interoperability		
SIP B2BUA	Full SIP transparency, mature and broadly deployed SIP stack, stateful proxy mode	
SIP Interworking	3xx redirect, REFER, PRACK, session timer, early media, call hold, delayed offer and more	
Registration and Authentication	SIP Registrar, registration on behalf of users/servers, SIP Digest access authentication	
Transport Mediation	Mediation between SIP over UDP/TCP/TLS/WebSocket, IPv4/IPv6, RTP/SRTP (SDES/DTLS)	
Header Manipulation	Add/modify/delete SIP headers and message body using simple WireShark-like language with powerful capabilities such as variables and utility functions	
URI and Number Manipulations	URI user and host name manipulations, ingress and egress digit manipulation	
Transcoding and Vocoders	Coder normalization including transcoding, coder enforcement and re-prioritization, extensive vocoder support: G.711, G.723.1, G.726, G.729A/B, GSM-FR, AMR-NB, AMR-WB (G.722.2), SILK-NB/WB, Opus-NB/WB	
Signal Conversion	DTMF/RFC 2833/SIP, T.38 fax, packet-time conversion	
WebRTC Gateway	Interworking between WebRTC endpoints and SIP networks. Supports WebSocket, Opus, VP8 video coder, lite ICE, DTLS, RTP multiplexing, secure RTCP with feedback.	
NAT	Local and far-end NAT traversal for support of remote workers	
Voice Quality and SLA		
Call Admission Control	Limit number and rate of concurrent sessions and registers per peer for inbound and outbound directions	
Packet Marking	802.1p/Q VLAN tagging, DiffServ, TOS	
Standalone Survivability	Maintains local calls in the event of WAN failure.	
Voice Monitoring and Enhancement	Transrating, RTPC-XR, Acoustic echo cancellation, replacing voice profile due to impairment detection, fixed and dynamic voice gain control, packet loss concealment, dynamic programmable jitter buffer, silence suppression/comfort noise generation, RTP redundancy, broken connection detection	
Direct Media	Hair-pinning (no media anchoring) of local calls to avoid unnecessary media delays and bandwidth consumption	
High Availability	SBC high availability with two-box redundancy, active calls preserved	
Test Agent	Ability to remotely verify connectivity, voice quality and SIP message flow between SIP UAs	
SIP Call Handling		
Criteria	Incoming SIP trunk, DID ranges, host names, any SIP headers, codecs, QoE, bandwidth	
Querying External Databases	Decisions based on customized queries of ENUM, LDAP, HTTP server (REST API)	
Available Destinations	Configured SIP peers, registered users, IP address, request URI	
Advanced Features	Alternative destinations, load balancing, LCR, call forking, E911 emergency call detection and prioritization	
Multiple LANs	Support for up to 48 separate LANs	
SBC Media Types	Audio\Video\Fax\Text\Message Session Relay Protocol (MSRP)\Binary Floor Control Protocol (BFCP)	
SIPREC	IETF standard SIP recording interface, supporting both audio and video SBC sessions	
Management		
OAM&P	Browser-based GUI, CLI, SNMP, INI Configuration file, REST API, CDR, One Voice Operations Center (OVOC)	
Multi Tenancy	Advanced multi-tenant SBC partitioning	
Physical/Environmental		
	Mediant 4000	Mediant 4000B
Dimensions	1U x 19" (444mm) x 14" (355mm) (HxWxD)	1U x 19" (444mm) x 14.9" (378mm) (HxWxD)
Weight	Approx. 11.7 lbs (5.3Kg)	Approx. 16.3 lbs (7.4Kg)
Mounting	Desktop or 19" rack mount	
Power	Dual power supply (hot-swappable): 100-240VAC 50-60Hz 2.5A max	Dual universal power supply (hot-swappable): 40-60VDC, 17A max., or 100-240 VAC, 50-60 Hz, 7A max
Environmental	5°-40° C	

* Requires a dedicated software build



International Headquarters
 1 Hayarden Street, Airport City
 Lod 7019900, Israel
 Tel: +972-3-976-4000
 Fax: +972-3-976-4040

AudioCodes Inc.
 200 Cottontail Lane, Suite A101E,
 Somerset, NJ 08873
 Tel: +1-732-469-0880
 Fax: +1-732-469-2298

Contact us: www.audiocodes.com/contact
 Website: www.audiocodes.com

©2021 AudioCodes Ltd. All rights reserved. AudioCodes, AC, HD VoIP, HD VoIP Sounds Better, IPmedia, Mediant, MediaPack, What's Inside Matters, OSN, SmartTAP, User Management Pack, VMAS, VoIPerfect, VoIPerfectHD, Your Gateway To VoIP, 3GX, VocaNom, AudioCodes One Voice, AudioCodes Meeting Insights, AudioCodes Room Experience and CloudBond are trademarks or registered trademarks of AudioCodes Limited. All other products or trademarks are property of their respective owners. Product specifications are subject to change without notice.