

Mediant™ 9080C

AudioCodes Session Border Controllers

Overview

AudioCodes Mediant 9000 Session Border Controllers (SBCs) are cutting-edge, high-capacity solutions designed for service providers and enterprises. They ensure service assurance, robust security, and reliable connectivity across diverse VoIP networks. These SBCs seamlessly connect IP-PBXs and Voice Services to any SIP trunking provider, delivering exceptional performance in any SIP-to-SIP environment.



The Mediant 9080C SBC is ideal for service providers and large organizations, including contact centers, private cloud centers, hosted services, and government institutions, where security, reliability, and high performance are critical.

Up to 100,000 SBC Sessions | Pure IP SBC | 1+1 High Availability | Certified SBC for Teams Direct Routing



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

Comprehensive perimeter defense against cyber, DoS, and DDoS attacks, eavesdropping, fraud, and service theft



Superior voice quality

Ensure crystal-clear voice communications with advanced optimization and monitoring capabilities



High resiliency

Maintain uninterrupted service with 1+1 high availability and local branch survivability

MEDIANT™ 9080C SPECIFICATIONS

Capacities

Max. Signaling Sessions	100,000
Max. Registered Users	500,000
Max. Transcoding	10,000 (G711) / 5,950 (G729)
Max. Media Sessions	100,000
Max. SRTP Sessions	100,000

Network Interfaces

Ethernet	12x1Gb or 8x1Gb and 4x10Gb Ethernet ports
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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
Authentication	Microsoft Azure Active Directory (Azure AD), LDAP
STIR/SHAENK	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/SCTP, 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
Number 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, DTLS, RTP multiplexing, secure RTPC with feedback
NAT	Local and far-end NAT traversal for support of remote workers, ICE full and lite support (RFC 8445)

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	Destinations based on customized queries of ENUM, LDAP, HTTP server (REST API)
Available Destinations	Configured SIP peers, registered users, IP address, request URI
SBC Media Types	Audio\Video\Fax\Text\Message Session Relay Protocol (MSRP)\Binary Floor Control Protocol (BFCP)
Recording Solutions	Lawful Interception (LI); SIPREC for both audio and video sessions

Management

OAM&P	Browser-based GUI, CLI, SNMP, INI Configuration file, REST API, One Voice Operations Center (OVOC), Session Detail Records (SDRs)
Multi Tenancy	Advanced multi-tenant SBC partitioning

Physical/Environmental

Dimensions	42.8mm X 482mm X 748.8mm	Weight (approximate)	19.45 Kg (55.33 pound)
Mounting	19" mount	Operating Temperature	10 to 35°C (50° to 95°F)
Power	Dual redundant 100-240V AC power supply		

¹ Requires a dedicated software build

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