

Mediant™ 9030/9080

Session Border Controller

AudioCodes **Mediant 9000 session border controllers (SBCs)** are high capacity solutions for service providers and enterprises, delivering service assurance, security and reliable connectivity between different VoIP networks. They connect IP-PBXs to any SIP trunking service provider and offer superior performance in connecting any SIP to SIP environment.



The available models are:

- Mediant 9030
- Mediant 9080

Mediant 9000 SBCs are a perfect solution for service providers and large organizations such as contact centers, large data centers, hosted services and government institutions where security, reliability and high performance are critical.

**Up to 70,000 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 1¹



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 9030		Mediant 9080
Max. Signaling Sessions	30,000		70,000
Max. Registered Users	200,000		500,000
Max. Transcoding	1,000		30,000 (Media transcoding cluster)
Max. Media Sessions	30,000		70,000
Max. RTP/SRTP Sessions	30,000/30,000		70,000/40,000
Network Interfaces			
Ethernet	12x1Gb or 8x1Gb and 4x10Gb Ethernet ports		
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 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/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, 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, RTP-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	42.9mm x 434.6mm x 707mm (HxWxD)	Weight	Between 13.04 kg (28.74 lb) and 16.27 kg (35.86 lb)
Mounting	19" mount	Operating Temperature	10° to 35°C
Power	Dual redundant 100-240V AC power supply/ Dual redundant -48 VDC power supply		

¹ Available on Mediant 9080

² Requires a dedicated software build