AudioCodes Mediant 800 Enterprise Session Border Controller and Media Gateway (M800B-ESBC)

Product Name: AudioCodes Mediant 800 Enterprise Session Border Controller and Media Gateway (M800B-ESBC)
Manufacturer: AudioCodes
Model Number: M800B-ESBC

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Please Note: Additions including sessions, remote implementation support and licenses/ software are available. If you require any of these additions, please enquire using the button above.

The AudioCodes M800B-ESBC offers a complete connectivity solution for small-to-medium sized enterprises.
AudioCodes M800B-ESBC Key Features

ï¿½ 400 SBC Sessions
ï¿½ 124 TDM Sessions
ï¿½ 1+1 High Availability
ï¿½ Supports OPUS and SILK
ï¿½ Comprehensive interoperability, proven interoperability with SIP trunks, SIP platforms and IP cloud services
ï¿½ Hybrid functionality, true hybrid SBC and gateway platform for gradual migration, low CAPEX and reduced space and power footprints
ï¿½ Enhanced security, robust perimeter defense against cyber, DoS and DDoS attacks, as well as eavesdropping, fraud and service theft
ï¿½ Superior voice quality, advanced capabilities for optimising and monitoring voice service quality
ï¿½ High resiliency, high availability using 1+1 redundancy, local branch survivability and PSTN fallback

Scaling up to 400 concurrent sessions, the Mediant 800 connects IP-PBXs to any SIP trunking service provider and offers superior performance in connecting any SIP to SIP environment.
In addition, the Mediant 800 supports up to 124 voice channels in a 1U platform to enable versatile connectivity between TDM and VoIP networks, such as connecting legacy TDM PBX systems to IP networks and IP-PBXs to the PSTN.
AudioCodes M800B-ESBC Technical Specifications
Capacities

ï¿½ Max Signalling: 250
ï¿½ Max. RTP/STRP Sessions: 250/250
ï¿½ Max. Transcoding Sessions: 57
ï¿½ Max. Registered Users: 1500

Telephony Interfaces:

ï¿½ Analog: 4/8/12 FXS ports; 4/8/12 FXO ports
ï¿½ Digital: Up to 4 E1/T1 interfaces; 4/8 BRI Ports
ï¿½ Clock Source: 5 ppm High Precision
ï¿½ Digital PSTN Protocols: Various ISDN PRI protocols such as EuroISDN, North American NI-2, LucentTM 4/5ESS, NortelTM DMS- 100 and others. Different CAS protocols, including MFC R2,

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Network Interfaces

ï¿½ Ethernet 4 GE or 4 GE + 8 FE interfaces configured in 1+1 redundancy or as individual ports

Security

ï¿½ Access Control: DoS/DDoS line rate protection, bandwidth throttling, dynamic blacklisting (Intrusion Detection System)
ï¿½ VoIP Firewall: RTP pinhole management, rogue RTP detection and prevention, SIP message policy, advanced RTP latching
ï¿½ Encryption/Authentication: TLS, DTLS, SRTP, HTTPS, SSH, client/server SIP Digest authentication, RADIUS Digest
ï¿½ Privacy: Topology hiding, user privacy
ï¿½ Traffic Separation: VLAN/physical interface separation for multiple media, control and OAMP interfaces
ï¿½ Intrusion Detection System: Detection and prevention of VoIP attacks, theft of service and unauthorized access

Interoperability

ï¿½ SIP B2BUA: Full SIP transparency, mature and broadly deployed SIP stack, stateful proxy mode
ï¿½ SIP Interworking: 3xx redirect, REFER, PRACK, session timer, early media, call hold, delayed offer and more
ï¿½ Registration and Authentication: SIP Registrar, registration on behalf of users/servers, SIP Digest access authentication
ï¿½ Transport Mediation: Mediation between SIP over UDP/TCP/TLS/WebSocket, IPv4/IPv6, RTP/SRTP (SDES/DTLS)
ï¿½ Header Manipulation: Add/modify/delete SIP headers and message body using simple WireShark-like language with powerful capabilities such as variables and utility functions
ï¿½ Number Manipulations: Ingress and egress digit manipulation
ï¿½ Transcoding and Vocoders Coder normalisation including transcoding, coder enforcement and re-prioritization, extensive vocoder support: G.711, G.723.1, G.726, G.729, GSM-FR, AMR-NB, AMR-WB (G.722.2), SILK-NB/WB, Opus-NB/WB
ï¿½ Signal Conversion: DTMF/RFC 2833/SIP, T.38 fax, T.38 V3, V.34, packet-time conversion, V.150.1
ï¿½ WebRTC Gateway: Interworking between WebRTC endpoints and SIP networks. Supports WebSocket, Opus, VP8 video coder, lite ICE, DTLS, RTP multiplexing.
ï¿½ NAT Local and far-end NAT traversal for support of remote workers

Voice Quality and SLA

ï¿½ Call Admission Control: Limit number and rate of concurrent sessions and registers per peer for inbound and outbound directions
ï¿½ Packet Marking: 802.1p/Q VLAN tagging, DiffServ, TOS
ï¿½ Standalone Survivability: Maintains local calls in the event of WAN failure. Outbound calls can use PSTN fallback (including E911).
ï¿½ Voice Monitoring and Enhancement: Transrating, RTCP-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
ï¿½ Direct Media: Hair-pinning (no media anchoring) of local calls to avoid unnecessary media

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delays and bandwidth consumption
ï¿½ High Availability: SBC high availability with two-box redundancy, active calls preserved
ï¿½ Test Agent: Ability to remotely verify connectivity, voice quality and SIP message flow between SIP UAs

SIP Routing

ï¿½ Routing Criteria Incoming SIP trunk, DID ranges, host names, any SIP headers, codecs, QoE, bandwidth
ï¿½ Querying External Databases Routing based on customised queries of ENUM, LDAP, HTTP server (REST API)
ï¿½ Route To: Configured SIP peers, registered users, IP address, request URI
ï¿½ Advanced Routing Features Alternative routes, load balancing, least-cost routing, call forking, E911 emergency call detection and prioritisation
ï¿½ SIPREC IETF standard SIP recording interface

Management

ï¿½ OAM&P: Browser-based GUI, CLI, SNMP, INI Configuration file, REST API, EMS

Physical/Environmental

ï¿½ Dimensions: 1U x 320mm x 345mm (HxWxD)
ï¿½ Weight: Approx. 5.95lb (2.7kg) loaded with OSN
ï¿½ Mounting: Desktop or 19” rack mount
ï¿½ Operating Temperature: 5°-40° C
ï¿½ Power: Internal AC power supply rated: 100-240V 4A 50- 60 Hz

OSN Server Platform (Optional)

ï¿½ Single Chassis Integration: Optional embedded, x86, Intel-based Open Solution Network platform for third-party applications

Please Enquire