Mediant™ 800 MSBR

Multi-Service Business Router

The AudioCodes **Mediant™ 800 Multi-Service Business Router (MSBR)** is an all-in-one router combining access, data, voice and security in a single device. It is ideal for managed data, SIP trunking, hosted PBX and cloud services, and allows service providers to deploy flexible and cost-effective solutions and to maximize revenue opportunities while minimizing CAPEX and OPEX.

Designed specifically to meet the needs of SMBs and SMEs, the Mediant™ 800 MSBR's unique multi-core architecture provides consistent high performance across all services, allowing end customers to get the most from their broadband connections for both data and voice applications.

4 WAN Interfaces | 124 TDM Sessions | 12 LAN Interfaces | Internal LTE

Comprehensive interoperability
Supports up to 4 E1/T1 trunks, analog phones, fax, PBX and PSTN connectivity; OSN server support for hosting third-party services

All-in-one functionality
Business router with access, data, voice and security in a single, cost-efficient platform

Multiple interfaces
LAN, WAN and LTE interfaces with powerful routing, switching and firewall

Superior quality
Consistent high performance with multi-core architecture

High resiliency
Survivability of data and telephony services in the event of a WAN failure

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Specifications

Capacity

	Max. Signaling/Media Sessions	Max. Registered Users	Transcoding Sessions
Mediant 800B	60	500	57
Mediant 800C	200	600	110

Networking Interfaces

WAN	Multiple WAN support for T1/E1, SHDSL, ADSL2+, VDSL2 vectoring, 100Base-X, 1000Base-X (SFP Format)
LAN	Up to 12 ports 10/100/1000Base-T
4G LTE	Internal cellular modem 4G/3G cat4/cat6 option

Telephony Interfaces

Digital Interfaces	Up to 4 span E1/T1/J1 using RJ-48c connectors, 8 BRI ports using RJ-48c connectors with 5 PPM high precision clock source
Analog Interfaces	UP to 12 analog FXS/FXO ports using RJ-11 connectors, option of 1 FXS lifeline port in case of power failure

Voice Features

Voice Coders	G.711, G.723.1, G.729A, G.722, AMR-WB, AMR-NB, SILK-NB, SILK-WB, OPUS-NB, OPUS-WB
Echo Cancellation	G.165 and G.2002-168, with 64 ,32 or 128 msec tail length
Fax Transport	T.38 compliant (real time fax), automatic bypass to PCM

Data Routing

- PPP, MLPPP, PPPoE, PPPoA, L2TP, IPoE, IPoA
- OAM-F5 (send/receive): loopback, continuity check
- DHCP client, relay, server
- VLAN and IEEE 802.1Q VLAN tagging
- Layer 3 routing and layer 2 bridging, jumbo frames
- Internal layer 2 switching
- Static and dynamic routing (RIP1, RIP2, OSPFv2, BGP), policy-based routing
- Multicast routing: IGMPv2
- IPv6, IPv6/IPv4 Dual Stack, ICMPv6, DHCPv6, SLAAC

Control and Management

Control Protocols	• SIP-TCP, SIP-UDP, SIP-TLS and IPv6 supported
Operations & Management	• AudioCodes' One Voice Operation Center • Embedded HTTP Web Server, SNMP V2/V3, SSH, Telnet, TR-69,TR-098, TR-181,TR-104 • User authentication and access control via HTTP or HTTPS, RADIUS, TACACS, Syslog (for events and alarms) • Zero Touch Provisioning

Quality of Service

- IEEE 802.1P, DSCP, TOS, DiffServ labeling, WRED,
- Marking, policing, and shaping, class-based queuing with prioritization, queuing based on VLAN

Security

Voice Security - Session Border Controller (SBC)	• SIP header conversion, SIP normalization • Survivability • IP-to-IP routing translations of various SIP transport types; UDP, TCP, TLS, translation of RTP, SRTP • Support SIP trunk with multi-ITSP (registrations to ITSPs are invoked independently) • Topology hiding • Call Admission Control • Call black/white list
Data Security	• IPSec • ESP – Tunnel mode • Encryption protocols: 3DES, AES, SHA-256, MD-5 • IDS/IPS (fragmented traffic, malformed request, ping of death, properly formed request from unauthenticated source, DDoS attack, SYN flood) • Stateful packet inspection firewall • DMZ host • Packet filtering • Network Access Control - 802.1x

Physical/Environmental

Dimensions	1U x 345mm x 320mm (HxWxD)	**Weight**	Approx. 5.95lb (2.7kg) loaded with OSN
Mounting	Desktop or 19" rack mount	**Operating Temperature**	5°-40° C
Power	**Mediant 800B**	Internal AC power supply rated: 100-240V 0.85A 50- 60 Hz	
	Mediant 800C	Internal AC power supply rated: 100-240 VAC ~50- 60Hz 0.9A maximum (Optional) Additional 12V 10A DC power, via an AudioCodes external AC/DC power adaptor	

OSN Server Platform (Optional)

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