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
Specifications

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/T1/11 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

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, L2TP, IPv4/6, L2TP, IPv4/6, IPv4/6
• 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 (RIP, RIP, OSPFv2, BGP), policy-based routing
• Multicast routing: IGMPv2
• IPv6, IPv6/IPv6 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 802.11, 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, SRT
• 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: DES, AES, SHA-256, MD-5
• IDS/IPS (fragments, 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

(OSN Server Platform (Optional)

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