Mediant™ 500L MSBR

Multi-Service Business Router

The AudioCodes **Mediant™ 500L 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 SOHOs and SMBs, the Mediant™ 500L 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 | 8 TDM Sessions | 8 LAN Interfaces | Wi-Fi 802.11n

Comprehensive interoperability
Perfectly suited for managed data, SIP trunking and hosted PBX services

All-in-one functionality
SOHO/SMB router with powerful routing, security, voice and Wi-Fi/PoE LAN options

Integrated SBC
Analog and digital voice interfaces with integrated SBC

High resiliency
Survivability and resilience for business data and telephony services

Multiple WAN options
Multiple WAN interface options with redundancy: Giga Ethernet copper and fiber, VDSL vectoring and internal 4G/LTE modem

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Specifications

Capacity		
SBC Capacity	60 Max. Signaling/Media Sessions	200 Max. Registered Users
Networking Interfaces		
WAN	Multi WAN: WAN copper Ethernet 10/100/1000, WAN fiber (SFP), WAN xDSL - ADSL2+ over POTS or ISDN, VDSL2, WAN cellular 4G/LTE as embedded modem or USB dongle	
WAN LTE Specifications	Embedded 4G/LTE cat 4 modem with 3G backward compatibility, up to 150 Mbps down and 50Mbps up speed, support standard mini SIM and micro/nano with adapter Global availability: Europe, Asia, Africa bands (B1,B3,B5,B7,B8,B20); North America bands (B2,B4,B12,B13); ANZ and South America bands (B1,B3,B4,B5,B7,B8,B28,B40)	
LAN	4, 8 ports 10/100/1000Base-TX with PoE 802.3af option	
Wi-Fi	Wi-Fi access point support for 802.11 b/g/n MIMO 2x2	
TDM Interfaces		
Digital Interfaces	Up to 4 BRI ports (8 calls) network S/T interfaces with 5 PPM high precision clock source	
Analog Interfaces	Up to 8 FXS, FXO, FXO lifeline port in case of power failure	
Analog/Digital Interfaces	2 FXS and 2 BRI configuration	
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, IPoAATM: Up to 8 PVCs • 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, Weight	43.7 (1U) x 310 x 210 mm (HxWxD), 4.4 lb (2.0kg)	
Mounting	Desktop or 19" rack mount	
Power	100-240V, 50-60 Hz, 0.8A	

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