

Mediant™ 500 MSBR

Multi-Service Business Router

The AudioCodes Mediant™ 500 Multi-Service Business Router (MSBR) is an all-in-one router combining access, data, voice and security in a single device. It is perfect 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.



Ideal as a trunking solution for SMBs with local PBX/KTS, the Mediant™ 500 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.

3 WAN Interfaces | 30 TDM Sessions | 8 LAN Interfaces | Wi-Fi 802.11n



Comprehensive interoperability

Supports analog phones, fax, PBX and PSTN connectivity



All-in-one functionality

Integrated data router for voice and data services ideal for high-performance access, QoS and security



Clear demarcation

Clear point of demarcation for managed services



High resiliency

Branch survivability, security and QoE for SMBs connected to cloud services



Multiple WAN options

Multiple WAN connectivity for redundancy and improved SLA

Specifications

SBC Capacity		
Mediant 500	60 Max. Signaling/Media Sessions	500 Max. Registered Users
Mediant 500C	200 Max. Signaling/Media Sessions	600 Max. Registered Users
Networking Interfaces		
WAN	WAN interface 10/100/1000 Base-T copper, dual-mode SFP (100Base-X and 1000Base-X), support for T1/E1*, SHDSL, ADSL2+, VDSL vectoring	
LAN	4 ports 10/100/1000Base-T	
Wi-Fi	Wi-Fi access point support for 802.11 a/b/g/n	
TDM Interfaces		
Digital Interfaces	1 span E1/T1, 2 BRI ports NT or TE termination using RJ-48c connectors with 5 PPM high precision clock source	
Analog Interfaces	4 FXS ports, 3 FXS and 1 FXO using RJ-11 connectors, 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, IPoAATM: Up to 8 PVCs • OAM-F5 (send/receive): loopback, continuity checkShaping: UBR, VBR-NRT, VBR-RT, CBR • 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	
Security		
Voice Security - Session Border Controller (SBC)	• SIP header conversion, SIP normalization • Survivability • IP-to-IP routing translation 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	
Environmental	Operational: 0 to 40°C (41 to 104°F); Storage: -25 to 70°C (-13 to 185°F) Relative Humidity: 10 to 90% non-condensing	