

## 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

## Specifications

Capacity	
<b>SBC Capacity</b>	60 Max. Signaling/Media Sessions      200 Max. Registered Users
Networking Interfaces	
<b>WAN</b>	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
<b>WAN LTE Specifications</b>	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)
<b>LAN</b>	4, 8 ports 10/100/1000Base-TX with PoE 802.3af option
<b>Wi-Fi</b>	Wi-Fi access point support for 802.11 b/g/n MIMO 2x2
TDM Interfaces	
<b>Digital Interfaces</b>	Up to 4 BRI ports (8 calls) network S/T interfaces with 5 PPM high precision clock source
<b>Analog Interfaces</b>	Up to 8 FXS, FXO, FXO lifeline port in case of power failure
<b>Analog/Digital Interfaces</b>	2 FXS and 2 BRI configuration
Voice Features	
<b>Voice Coders</b>	G.711, G.723.1, G.729A, G.722, AMR-WB, AMR-NB, SILK-NB, SILK-WB, OPUS-NB, OPUS-WB
<b>Echo Cancellation</b>	G.165 and G.2002-168, with 64 ,32 or 128 msec tail length
<b>Fax Transport</b>	T.38 compliant (real time fax), automatic bypass to PCM
Data Routing	
	<ul style="list-style-type: none"> <li>• PPP, MLPPP, PPPoE, PPPoA, L2TP, IPoE, IPoAATM: Up to 8 PVCs</li> <li>• OAM-F5 (send/receive): loopback, continuity check</li> <li>• DHCP client, relay, server</li> <li>• VLAN and IEEE 802.1Q VLAN tagging</li> <li>• Layer 3 routing and layer 2 bridging, jumbo frames</li> <li>• Internal layer 2 switching</li> <li>• Static and dynamic routing (RIP1, RIP2, OSPFv2, BGP), policy-based routing</li> <li>• Multicast routing: IGMPv2</li> <li>• IPv6, IPv6/IPv4 Dual Stack, ICMPv6, DHCPv6, SLAAC</li> </ul>
Control and Management	
<b>Control Protocols</b>	<ul style="list-style-type: none"> <li>• SIP-TCP, SIP-UDP, SIP-TLS and IPv6 supported</li> </ul>
<b>Operations &amp; Management</b>	<ul style="list-style-type: none"> <li>• AudioCodes' One Voice Operation Center</li> <li>• Embedded HTTP Web Server, SNMP V2/V3, SSH, Telnet, TR-69, TR-098, TR-181, TR-104</li> <li>• User authentication and access control via HTTP or HTTPS, RADIUS, TACACS, Syslog (for events and alarms)</li> <li>• Zero Touch Provisioning</li> </ul>
Quality of Service	
	<ul style="list-style-type: none"> <li>• IEEE 802.1P, DSCP, TOS, DiffServ labeling, WRED,</li> <li>• Marking, policing, and shaping, class-based queuing with prioritization, queuing based on VLAN</li> </ul>
Security	
<b>Voice Security - Session Border Controller (SBC)</b>	<ul style="list-style-type: none"> <li>• SIP header conversion, SIP normalization</li> <li>• Survivability</li> <li>• IP-to-IP routing translations of various SIP transport types; UDP, TCP, TLS, translation of RTP, SRTP</li> <li>• Support SIP trunk with multi-ITSP (registrations to ITSPs are invoked independently)</li> <li>• Topology hiding</li> <li>• Call Admission Control</li> <li>• Call black/white list</li> </ul>
<b>Data Security</b>	<ul style="list-style-type: none"> <li>• IPsec</li> <li>• ESP – Tunnel mode</li> <li>• Encryption protocols: 3DES, AES, SHA-256, MD-5</li> <li>• IDS/IPS (fragmented traffic, malformed request, ping of death, properly formed request from unauthenticated source, DDoS attack, SYN flood)</li> <li>• Stateful packet inspection firewall</li> <li>• DMZ host</li> <li>• Packet filtering</li> <li>• Network Access Control - 802.1x</li> </ul>
Physical/Environmental	
<b>Dimensions, Weight</b>	43.7 (1U) x 310 x 210 mm (HxWxD), 4.4 lb (2.0kg)
<b>Mounting</b>	Desktop or 19" rack mount
<b>Power</b>	100-240V, 50-60 Hz, 0.8A



**International Headquarters**  
 1 Hayarden Street, Airport City  
 Lod 7019900, Israel  
 Tel: +972-3-976-4000  
 Fax: +972-3-976-4040

**AudioCodes Inc.**  
 27 World's Fair Drive,  
 Somerset, NJ 08873  
 Tel: +1-732-469-0880  
 Fax: +1-732-469-2298

Contact us: [www.audiocodes.com/contact](http://www.audiocodes.com/contact)  
 Website: [www.audiocodes.com](http://www.audiocodes.com)

©2018 AudioCodes Ltd. All rights reserved. AudioCodes, AC, HD VoIP, HD VoIP Sounds Better, IPmedia, Mediant, MediaPack, What's Inside Matters, OSN, SmartTAP, User Management Pack, VMAS, VolPerfect, VolPerfectHD, Your Gateway To VoIP, 3GX, VocaNom, AudioCodes One Voice and CloudBond are trademarks or registered trademarks of AudioCodes Limited. All other products or trademarks are property of their respective owners. Product specifications are subject to change without notice.