Multi-Service Business Router

The AudioCodes Mediant™ 5G is a robust, all-in-one 5G router combining multi-WAN access, data, voice and security in a single device. It is an ideal product for mobile network service providers looking to offer 5G connectivity to small businesses and branch offices.

Designed specifically to meet the increasing data needs of SOHOs and SMBs, the Mediant 5G enhances the customer connectivity experience with highest throughput over 5G, Wi-Fi 6 and other wired access technologies, enabling customers to get the most from their broadband connections.

5G Cellular | Wi-Fi 6 | 4 WAN Interfaces | Integrated PSTN Connectivity | 1Gbps Performance

5G connectivity

Integrated 5G modem supporting up to 1Gbps

Wi-Fi 6

Integrated 802.11ax Wi-Fi dual-band concurrent

Integrated Session Border Controller (SBC) and PSTN Interfaces

Analog and digital voice interfaces for legacy voice connectivity, as well as integrated SBC for hosted VoIP solutions

Multiple WAN Options

Multiple WAN connections with redundancy for survivability: integrated 5G/LTE modem, copper and fiber Giga Ethernet, and VDSL super-vectoring (profile 35b)

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Networking Interfaces		
WAN	5G Cellular connectivity	5G CAT 16 Modem with fallback to 4G/3G, support SA and NSA modes Dual SIM Worldwide coverage 5G bands n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78 LTE bands B1/B3/B5/B7/B8/B20/B28/B32
	Giga Ethernet	1 x copper Ethernet 10/100/1000 1x fiber (SFP) for Ethernet or GPON connectivity
	xDSL	ADSL2+ over POTS or ISDN, VDSL2, VDSL 35b
LAN		4 ports 10/100/1000Base-TX
Wi-Fi		Wi-Fi 6 access point supporting 802.11ax dual band concurrent 2.4Ghz and 5Ghz

TDM Interfaces	
Digital Interfaces	Up to 4 BRI
Analog Interfaces	Up to 4 FXS
Analog/Digital Interfaces	2 FXS and 2 BRI configuration

Voice Features		
SBC Capacity	30 Signaling/Media Sessions	200 Registered Users
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		
Routing functionality	• 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 with IKEv2 • 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

* For specific configuration availability please contact an AudioCodes sales representative