

Media Gateway and Hybrid SBC

The AudioCodes Mediant™ 500i Media Gateway and SBC is a compact, high performance VoIP connectivity solution for small enterprises and branch office locations. The Mediant 500i supports up to 30 voice channels in a 1U platform to enable versatile connectivity between TDM and VoIP networks, such as connecting legacy TDM PBX systems to IP networks and IP-PBXs to the PSTN.



The Mediant 500i also connects IP-PBXs to any SIP trunking service provider and offers superior performance in connecting any SIP to SIP environment.

30 TDM Sessions | 30 SBC Sessions | 4 WAN Options | Branch Survivability



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 500i	30 Max. Signaling/Media Sessions	200 Max. Registered Users
Networking Interfaces		
WAN	Multi WAN: copper Ethernet 10/100/1000; fiber (SFP), VDSL 35b; integrated Cellular 4G/LTE assembly option	
LAN	4 ports 10/100/1000Base-T	
TDM Interfaces		
Digital Interfaces	1 E1/T1 interface using RJ-48 connector	
Analog Interfaces	2 FXS ports using RJ-11 connectors	
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	348 x 205 x 44 mm (WxDxH)	
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	

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