AudioCodes CPE & Access Gateway Products

AudioCodes Mediant™ 500 MSBR

Mediant™ 500 MSBR is an all-in-one box solution, designed to provide converged data and voice connectivity for small-to-mid size businesses (SMBs) customers and redundant access to hosted services for small-to-mid size enterprises (SMEs).

Forming a well-managed point of demarcation for the service provider, the Mediant 500 MSBR integrates a variety of communication functions into a single platform, including Router, WAN access, branch survivability, VoIP mediation, voice and data security, and Enterprise Session Border Controller (E-SBC).

Multi-Service Business Router

FLEXIBLE WAN ACCESS CAPABILITIES
AudioCodes Mediant 500 MSBR has a versatile WAN interface supporting copper and optical fiber Gigabit Ethernet and a selection of DSL protocols such as SHDSL, ADSL2+ and VDSL. It also supports a 4G/3G cellular connection through a USB dongle. This range of options enables flexibility and branch resiliency in connecting to service provider networks.

The Mediant 500 MSBR provides redundant WAN connectivity links for continued services in the event of WAN failure. Each device comes with copper Gigabit Ethernet (GE) along with a mix of additional two WAN ports of xDSL or GE (copper or Optical Fiber SFP).

QUALITY VOICE AND DATA CONNECTIVITY FOR SMALL BUSINESSES
With a unique multi-core architecture for separating Data and Voice processing, the Mediant 500 MSBR is designed to meet service providers’ stringent demands for providing integrated data and voice services for small sites with predictable and consistent performance.
Branch survivability, security and QoE for cloud services

Customers served by a SIP-based IP Centrex or other cloud-based services are challenged with service interruptions due to WAN failure, quality of service and security issues. The Mediant 500 MSBR provides a complete solution to these challenges. By offering multiple redundant WAN links and the integrated Cloud Resilience Package (CRP) and Standalone Survivability (SAS) features, the Mediant 500 MSBR facilitates local internal calling, alternate WAN connectivity or PSTN fallback for making and receiving external calls, along with advanced security features and quality of experience (QEx) tools.

SIP Trunking for small-to-medium enterprises (SMEs)

By upgrading the platform with software E-SBC licenses, the Mediant 500 MSBR protects the enterprise network and provides secure connectivity into SIP Trunking as well as other service provider applications. The key security features include Call Admission Control (CAC), encryption and authentication, topology hiding, traffic separation and protection against Denial of Service (DoS) attacks.

Specifications

**Voice Interfaces**
- 4 analog POTS interfaces (1 E1/T1 span)
- 2 BRI ports using RJ-48c connectors
- 2 BRI ports using RJ-48c connectors
- 2 FXS ports using RJ-11 connectors
- 1 FXO port in case of power failure

**Network Interfaces**
- Ieee 802.1P, TOS, DiffServ labeling
- IEEE 802.1Q VLAN tagging
- RTP/RTCP (Extended Reports per RFC 3561)
- Shaping Policing, Quoting, Bandwidth Reservation (Optional)

**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, S RTP
- Support SIP trunk with multi-ITSP (Registrations to ITSPs is invoked independently)
- Topology hiding
- Call Admission Control
- Call Block/Whitelist

**Data Security**
- IPsec - Tunnel mode
- ESP – Tunnel mode
- Authentication
- IKE mode – IPsec VPN
- IDS/IPS:
  - Fragmented traffic
  - Malformed Request
  - Ping of Death
  - Properly formed request from unauthenticated source
  - DDOS attack
  - SYN flood

**Network Functions**
- Firewall
- Port Triggering
- Packet Filtering
- Application Layer Gateway

**Hardware Specifications**
- Power Supply: Single, universal 90-260 V AC
- Physical Dimensions: 310mm x 205mm x 43U

**Regulatory Compliance**
- Safety and EMC Standards: UL60950-1, EN60950-1, CB certification including National deviations
- EN55024, EN55022 Class A, EN61000-3-2, EN61000-3-3, EN300 386, FCC 47 Part 15 Class A

Data Routing (Optional)
- DHCP/PPPoE/L2TP/PPTP client towards WAN
- DHCP server towards LAN
- VLAN
- Layer 3 routing
- Internal Link 2 switching
- Static and dynamic routing (RIP, RIP2, OSPF, BGP)

Control and Management
- Control Protocols: SIP/TDP, SIP/LCP, SIP/UDP and SIP/MODIV**, IPv6 Supported
- Cloud Resilience Package (CRP) and Standalone Survivability (SAS) for service continuity

Operations & Management
- AutoCode: Element Management System
  - Embedded HTTP Web Server, SNMP/ V2c, SSL, Telnet, TR-09
  - Remote configuration and software download via HTTP or HTTPS, RADIUS, syslog (for events and alarms)

IP/Video/Quality of Service
- ISE 802.3/3, 3/3, Differentiation
- ISE 802.1Q VLAN tagging
- RTCP/RTCP (Extended Reports per RFC 3561)
- QoS (Quality of Service)
- Call Admission Control
- Call Block/Whitelist

** Please consult with AudioCodes availability of Mediant 500 MSBR configurations

** Roadmap

Branch survivability, security and QoE for cloud services

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SIP Trunking for small-to-medium enterprises (SMEs)

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Specifications

**Voice Interfaces**
- Up to 2 BRI / 2 FXS, 2 BRI / 4 analog PSTN interfaces or 2 E1/T1 span
- 1 span E1/T1 or using RJ-48 connectors
- 2 BRI ports using RJ-48c connectors
- 4 FXS ports, 3 FXS and 1 FXO using RJ-11 connectors
- 1 BRI Lifeline port in case of power failure

**Network Interfaces**
- 1 span E1/T1 using RJ-48c connectors
- 2 BRI ports using RJ-48c connectors
- 4 FXS ports, 3 FXS and 1 FXO using RJ-11 connectors
- 1 FXO Lifeline port in case of power failure

**Media Processing**
- G.711, G.722, G.729a, G.723.1, AMR-WB, G.729
- Independent dynamic vocoder selection per channel
- G.165 and G.168-2002, with 32, 64 or 128 msec tail length
- Dynamic programming (dial plans, CID, WNG, CNG)

**Data Routing (Optional)**
- DHCP/PPPoE/L2TP/PPTP client towards WAN
- DHCP server towards LAN
- VLAN
- Layer 3 routing
- Internal Link 2 switching
- Static and dynamic routing (RIP, RIP2, OSPF, BGP)

Control and Management
- Control Protocols: SIP/TDP, SIP/LCP, SIP/UDP and SIP/MODIV**, IPv6 Supported
- Cloud Resilience Package (CRP) and Standalone Survivability (SAS) for service continuity

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