AudioCodes 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) 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).
**Mediant™ 500 Multi-Service Business Router**

**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 (QoE) tools.

### Specifications

**TDM Interfaces***

- **PSTN Capacity**: 2 BRI or 4 analog PSTN** interfaces
- **Digital Interfaces**: 2 BRI ports using RJ-48c connectors
- **Analog Interfaces**: 4 FXS ports, 3 FXS and 1 FXO using RJ-11 connectors
- **FXS Lifeline port in case of power failure**
- **BRI Interfaces**: 2 BRI ports (4 calls), network S/T interfaces. NT or TE termination

**Digital Processing**

- **Voice Coders**: G.711, G.723.1, G.729, G.722, AMR-WB
- **Extra-Codification**: G.310 and G.168A 2002; with 32, 64 or 128 mask bit length
- **Quality Enhancement**: Dynamic programmable bit/twisted, WD, CNG
- **DTMF/INF Tones**: Packets or BRI side detection and generation, RFC 2833 compliant G711a and Call Progress tones Detection and Generation
- **IP Transport**: SIP (RFC 3261/5225); RTP/RTCP (RFC 3550 and 3551); IPv6 Supported
- **File Transfers**: 7.38 compliant real time file, Accessories Exposes to PSTN

**Signaling**

- **Digital – PSTN Protocols**: 602-07P, 602-10, 602-11, 602-12, 602-13
- **Analog Signaling**: Loop Start F0/700; Caller ID, priority reverse, distinct ringing, visual Message Waiting indication

**Data Routing (Optional)**

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

**Control and Management**

**Control Protocols**

- **SIP/TCP, SIP/LCUP, SIP/TLS and SIP/Mohom.**
- **IPv6 Supported**

**Operations & Management**

- **AudioCodes’ Element Management System**
- **SNMP V2/V3, SSH, Telnet**
- **RADIUS, Syslog**

**IP/VoIP Quality of Service**

- **IEEE 802.1P, TOS, DiffServ labeling**
- **IEEE 802.1Q VLAN tagging**
- **RTCP-XR (Extended Reports per RFC 3611)**

**Security**

**Session Border Controller (SBC)**

- **SIP header conversion**
- **SIP normalization**
- **Survivability**
- **IP to IP existing transcations of various SIP transport types; UDP, TCP, TLS**
- **Translation of RTP, SRTP**
- **Support SIP Trunk with multi-ITSP (Registrations to ITSPs is invoked independently)**
- **Topology hiding**
- **Call Admission Control**
- **Call Black/White list**

**Data Security**

- **PNG**
- **ESP – Tunnel mode Encryption**
- **Authentication**
- **IPSec**
- **Routed traffic – Malformed Request**
- **Firewall**
- **Port Triggering**
- **Pooled Filtering**
- **Application Layer Gateway**

**Hardware Specifications**

- **Power Supply**: Single, universal 95-260 V AC
- **Physical Dimensions**: 310mm x 205mm x 43U

**Regulatory Compliance**

- **Safety and EMC Standards**: UL60950-1, EN60950-1, CB certification including National deviations
- **Telecommunication Standards**: TIA-968, ETSI 301 203 (23) (F0 interface), ETS 44.009 (35), ETSI (35) (F0 interface), AS/ASIF-038 (F0 interface), AS/ASIF-016 (F0 interface), AS/ASIF-027 (F0 interface)

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

**Roadmap**

- **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 (QoE) 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.**

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