Hybrid SBC and Media Gateway

The AudioCodes **Mediant 500L enterprise session border controller (E-SBC)** and media gateway is a compact, high performance VoIP connectivity solution for small enterprises and branch office locations.

Scaling up to 60 concurrent sessions, the Mediant 500L connects IP-PBXs to any SIP trunking service provider and offers superior performance in connecting any SIP to SIP environment.

In addition, the Mediant 500L supports up to 8 voice channels 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.

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**Comprehensive interoperability**
Proven interoperability with SIP trunks, SIP platforms and IP cloud services

**Hybrid functionality**
True hybrid SBC and gateway platform for gradual migration, low CAPEX and reduced space and power footprints

**Enhanced security**
Robust perimeter defense against cyber, DoS and DDoS attacks, as well as eavesdropping, fraud and service theft

**Superior voice quality**
Advanced capabilities for optimizing and monitoring voice service quality

**High resiliency**
Local branch survivability and PSTN fallback with E911
### Specifications

#### Capacities

| Max. Signaling | 60 |
| Max. RTP/SRTP Sessions | 60 |
| Max. Registered Users | 200 |

#### Telephony Interfaces

**Digital**
- 1-4 BRI ports, network S/T interfaces, NT or TE termination

**Analog**
- Up to 4 FXS and 4 FXO ports

**Clock Source**
- 5 ppm High Precision

#### Network Interfaces

**Ethernet**
- 4 GE interfaces configured in 1+1 redundancy or as individual ports

#### Security

**Access Control**
- DoS/DDoS line rate protection, bandwidth throttling, dynamic blacklisting (Intrusion Detection System)

**VoIP Firewall**
- RTP pinhole management, rogue RTP detection and prevention, SIP message policy, advanced RTP latching

**Encryption/Authentication**
- TLS, SRTP, HTTPS, SSH, client/server SIP Digest authentication, RADIUS Digest

**Privacy**
- Automatic topology hiding, user privacy

**Traffic Separation**
- VLAN/physical interface separation for multiple media, control and OAMP interfaces

#### Interoperability

**SIP B2BUA**
- Full SIP transparency, mature and broadly deployed SIP stack, stateful proxy mode

**SIP Interworking**
- 3xx redirect, REFER, PRACK, session timers, early media, call hold, delayed offer and more

**Registration and Authentication**
- SIP Registrar, registration on behalf of users/servers, SIP Digest access authentication

**Number Manipulations**
- Ingress and egress digit manipulation

**SIP Interworking**
- 3xx redirect, REFER, PRACK, session timers, early media, call hold, delayed offer

**Signal Conversion**
- DTMF/RFC 2833/SIP , T.38 fax, T.38 V3, packet-time conversion

**NAT**
- Local and far-end NAT traversal for support of remote workers

#### Voice Quality and SLA

**Call Admission Control**
- Limit number and rate of concurrent sessions and registers per peer for inbound and outbound directions

**Packet Marking**
- 802.1p/Q VLAN tagging, DiffServ, TOS

**Standalone Survivability**
- Maintains local calls in the event of WAN failure

**Voice Monitoring and Enhancement**
- Transrating, RTCP-XR, acoustic echo cancellation, replacing voice profile due to impairment detection, fixed and dynamic voice gain control, packet loss concealment, dynamic programmable jitter buffer, silence suppression/comfort noise generation, RTP redundancy, broken connection detection

**Direct Media**
- Hair-pinning (no media anchoring) of local calls to avoid unnecessary media delays and bandwidth consumption

**Test Agent**
- Ability to remotely verify connectivity, voice quality and SIP message flow between SIP UAs

#### SBC Media Types

- Audio/Video/Fax, Binary Floor Control Protocol (BFCP), SIPREC, SBC Media Types

#### Management

**OAMP**
- Browser-based GLUE, CLI, SNMP, ini Configuration file, REST API, One Voice Operations Center (OVOC)

### Physical/Environmental

**Dimensions**
- 53 x 296 x 160 mm (2 x 11.65 x 6.3 in.) (HxWxD)

**Weight**
- 670g

**Mounting**
- Desktop

**Power**
- Single universal AC, power supply 100-240V, 50-60 Hz, 12V/3A or 12V/5A

**Environmental**
- Operational: 5 to 40°C (41 to 104°F), Storage: -25 to 85°C (-13 to 185°F)
- Relative Humidity: 10 to 90% non-condensing

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