Product Name: Mediatrix Sentinel-SBC-5 Session Border Controller (5 SBC sessions)
Manufacturer: Mediatrix
Model Number: Sentinel-SBC-5

Mediatrix Sentinel-SBC-5 Session Border Controller (5 SBC sessions)
The Mediatrix Sentinel-SBC-5 Session Border Controller (5 SBC sessions) combines VoIP Analog Adapter, PSTN Gateway and Session Border Controller capabilities in a secure and powerful platform. This platform, featuring FXS/FXO and PRI interfaces, provides an ideal solution for enterprise voice applications and connecting to a Service Provider’s broadband access.
Mediatrix Sentinel-SBC-5 Key Features

• Carrier-grade voice quality;
• Field upgradable telephony cards;
• Topology hiding and NAT Traversal;
• Flexible routing and SIP Header manipulation;
• Survivability;
• Call admission control;
• Secured SIP signaling and media transmission;
• TR-069 for massive deployments;
• Encrypted configuration files support;
• Call Detail Record generation.

With a large variety of Telephony Interfaces, it is the ideal solution to deploy private and hosted toll bypass networks. It provides a simple, transparent and costeffective way of maintaining a connection to the PSTN.
The Mediatrix Sentinel also allows Enterprises, Service Providers, and System Integrators to deploy secure systems and generate additional revenue streams. The Mediatrix Sentinel enables cost-effective VoIP deployments into medium and large enterprises for both media gateway and session border controller applications.
Mediatrix Sentinel-SBC-5 - Technical Specifications
SIP Signaling

• Back-to-Back User Agent
• SIP Header manipulation
• SIP Registrar
• SIP Authentication
• Registration throttling
• SIP Failover using DNS SRV
• NAT/NAPT on SIP for near and far end
• Multiple SIP Proxy

Media Processing

• Vocoders: G.711 (A-law, µ-law), G.723.1, G.726, G.729a/b
• NAT/NAPT on media for near and far end
• Audio and Video codec relay
• Media anchoring
• RTP inactivity monitoring
• RTP pinhole
• Codec filtering
• G.168 echo cancellation
• DTMF detection, generation and interworking

- Carrier tone detection and generation
- Silence detection / suppression and Comfort Noise Generation level software adjustable
- Configurable jitter buffer
- Configurable transmit packet length
- RTP/RTCP – RFC 1889, RFC 1890, RFC 2833, RFC 3389

Fax and Modem Support

- Fax over IP
- T.38 Fax relay (9.6 k, 14.4 k)
- G.711 Fax and Modem Bypass
- Clear channel (G.711) or T.38
- T.38, fax tone detection and pass-through on G.711 and G.726

Survivability

- Fallback to secondary server or PSTN lifeline
- On-premise communications alive during downtimes
- SIP Registration snooping
- SIP Keep alive mechanism
- SIP server monitoring
- Dynamic call routing

Security

- SIP-aware firewall
- Signaling and media topology hiding
- DoS protection
- White list
- Black listing based on:
- SIP methods
- Message bodies
- Call attempts rate

Telephony Interfaces

- Up to 8 PRI E1/T1 ports
- Up to 28 FXS/FXO ports
- ISDN Signaling
- R2 Digital Signaling
- E&M Digital Signaling
- Loop Start Signaling

Enhanced Telephony Features

- Call Forward / Call Transfer / Conference Call / Call Waiting support / Call forking
- Message Waiting Indication with caller-ID
- Flash hook event signaling
- Caller ID Generation (Name & Number) as per Bellcore DTMF or FSK
- CCNR / CCBS

Call Routing

- Local switching
- Call filtering and blocking
- Interface hunt groups
- Number manipulation functions
- Call properties manipulations
- Routing Criteria
- Interface
- Least-cost call routing
- Calling/called party number
- Time of day, day of week, date

Quality of Service

- Bandwidth limitation and management
- Call admission control based on per-trunk limits or available bandwidth
- TOS/DiffServ
- IEEE 802.1p/Q

Network Interfaces

- WAN Connection 1 x 10/100/1000 BaseT Ethernet RJ-45 connectors
- LAN Switch 4 x 10/100/1000 BaseT Ethernet RJ-45 connectors

Management

- SNMPv3, HTTP, FTP, TFTP, HTTPS
- TR-069 for massive deployments
- Catalog of configuration templates
- Auto-provisioning
- Automatic firmware download
- Intuitive web management Interface
- On-line Documentation in a Web GUI

Monitoring

- System overview
- Active registrations
- Active calls
- Call and Registration events
- Notifications over syslog or in local file
- TR-069 active notifications

Diagnostic tools

- Call tracing
- Call Detail Records
- TAC diagnostic traces
- Packet capture
- PCM capture
- DSP tracing
- DSP stats

Operating Environment

- Operating temperature: 0oC to 45oC.
- Storage temperature: -20oC to +70oC
- Humidity: up to 85 %, non-condensing

Power Supply

- Internal 100-240 VAC power supply
- Optional Dual Power Supply
- Optional -48VDC Power Supply

Mechanical

- Rack mount 1U, Desk mount
- Stackable units to increase port count

Dimensions

- Height: 4.4 cm
- Width (mounting brackets): 48.5 cm
- Depth: 330 cm
- Weight: 7Kg

Please Enquire