

# Sonus SBC-5100 Session Border Controller



Product Name: Sonus SBC-5100 Session Border Controller

Manufacturer: Sonus

Model Number: SBC-5100

## Sonus SBC-5100 Session Border Controller

The Sonus SBC 5100 Session Border Controller is purpose-built to leverage SIP-based networks as enterprises and tier two/three service providers look to simplify their infrastructure and deploy new applications such as video and Unified Communications. The SBC 5100 series is available in two form factors: modular (SBC 5110) and fixed (SBC 5100).

### Sonus SBC-5100 Session Border Controller - Technical Specifications System Capabilities

- Sessions
  - 10,000 sessions (SIP and/or H.323)
  - 10,000 calls
  - 10,000 transcoded sessions (based upon codec type)
  - RTCP sessions scale 1:1 with RTP sessions
- Call Set-Up
  - Maximum call setup rate: 150 cps
- Registrations
  - Maximum new registrations/sec: 400
  - Maximum refreshes/sec: 1,700 per second
  - Total registered end point support: 100,000; up to 10,000 NAT'd end points
- Encryption
  - Maximum number of TLS sessions: 10,000
  - TLS set-up rate: 50 cps w/o mutual authentication
  - Maximum # of IPsec tunnels: 2,048 (4,096 IPsec SAs)
  - IPsec (IKE) setup rate: 50 cps
  - Maximum # SRTP sessions: 10,000

### Media Services

- Transcoding up to 10,000 concurrent calls: G.711, G.726, G.728, G.729A/B, G.723, iLBC, G.722, G.722.1, AMR-NB, AMR-WB, EVRCB0, EVRC0
- Wireline, wireless, wideband and clear channel codec pass through
- T.38 compliant fax relay or fall back to G.711
- VAD, Silence Suppression, Dynamic Jitter Buffer, Fax/ Modem Detection, DTMF/Tone Relay/RFC2833/RFC4733 interworking
- NAT/NAPT on media
- DTMF Trigger Detection and Notification
- Generic audio codec relay
- Tones & Announcements
- Local Ring Back Tone (LRBT) support with centralized PSX Policy Server
- RTP inactivity monitoring
- Supported video codecs: H.264 AVC, H.264 SVC, H.263+, H.263, H.261, VP8

### Redundancy

- 1:1 Redundant Systems for Service Availability
- 1:1 Redundant Management/ Control Ports

### Management Capabilities

- Graphical based wizards for ease of configuration

# Sonus SBC-5100 Session Border Controller

- Secure embedded web-based management GUI
- Sonus CLI, SSH
- Centralized support by Sonus Insight EMS
- SNMP V2/V3 status and statistics
- Local logging of events, alarms, and traps; Call trace
- Sonus DSI Level 0 support for storing CDRs; RADIUS accounting records
- Live Software Update (LSWU)

## Signaling

- Back to Back User Agent (B2BUA)
- SIP, SIP-I/SIP-T, SIP/H.323; Sonus Gateway to Gateway Signaling
- SIP protocol normalization/protocol repair; SIP message manipulation
- NAT/NAPT on signaling
- Binary floor control protocol (BFCP)

## Protocol Support

- IPv4, IPv6, IPv4/IPv6 interworking
- SSH; sFTP
- SNMP; NETCONF; NTP
- HTTP/HTTPS
- RTP/RTCP
- UDP, TCP
- DNS, ENUM Far-end camera control (FECC)

## Routing/Policy

- Embedded policy/routing engine
- Optional centralized policy/routing via Sonus Centralized Policy Server (PSX Server) using Diameter+
- Screening, blocking, routing, presentation, call type filters
- Route prioritization
- Leading digit routing; International routing; URI based routing
- Digit/parameter manipulation
- E911 support; Priority Call handling

## Security

- Session-aware firewall; Topology hiding
- Line rate DoS/DDoS and Rogue RTP protection
- Line rate malformed packet protection
- TLS, IPsec (IKEV1) for signaling encryption
- Secure RTP/RTCP for media encryption

## Quality of Service (QoS)

- Bandwidth management
- Call admission control (CAC) per trunk group, per zone
- Per call statistics
- TOS/COS packet marking

## Packet Network Time Source

- Network Time Protocol (NTP) per RFC-1708

# Sonus SBC-5100 Session Border Controller

## Front Panel

- Status Indicators Front Panel LEDs
- Status
- Critical
- Major
- Minor
- User
- Location
- Single USB V2.0 interface

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## Memory

- 12 GB of RAM

## Weight Maximum Fully Populated

- 50 lbs. (22.68 kg)

**Please Enquire**

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