

# TS-3000

## Session Border Controller



### Product Overview

TS-3000 SBC provides rich SIP-based services such as safe network access, robust security, system interconnectivity, flexible session routing & policy management, QoS, media transcoding and media processing for small-and-medium telecommunication operators. With distributed multi-core processor, rear panel for non-blocking gigabit switching data as well as embedded Linux operating system, the session border controller delivers high capability while achieves low power dissipation. It is able to process up to 2000 concurrent SIP sessions and transcode 1500 concurrent calls. Meanwhile, it supports dual control boards and dual hot-swappable power supplies, and allows encrypted sessions via TLS and SRTP. Apart from traditional codecs like G.729, G.723, G.711 and G.726, SBC3000 also supports the transcoding of iLBC, AMR and OPUS.

### Salient Features

- Supports up to 2000 concurrent SIP sessions
- Triple anti-attacking
- Support forwarding of 2000 calls on media, and transcoding of 1500 calls on media and fax
- Triple anti-attacking, embedded VoIP firewall, prevention of DoS and DDos attacks
- Bandwidth limitation and dynamic white list & black list
- VLAN, Ipsec, QoS, static route, NAT traversal
- Import & export of remote upgrade and configuration data
- User-friendly web interface, multiple management ways
- Dual main control boards, dual hot-swappable power supplies

### Physical Interfaces

- MCU (Main Control Unit): 2
- MFU (Main Function Unit): 4
- Ethernet Ports: 2\* 10/100/1000M Base-T Ethernet ports each MCU
- 1\* USB each MCU
- Serial Console: 1\* RS232, 115200bps, RJ45 each MCU
- Power Supply: 2 (Dual)

### VoIP

- SIP 2.0 compliant, UDP, TCP, TLS
- SIP trunk (Peer to peer) • SIP trunk (Access)
- SIP Registrations • B2BUA (Back-to-Back User Agent)
- SIP Request rate limiting
- SIP registration rate limiting
- SIP registration scan attack detection
- SIP call scan attack detection
- SIP anti-attack
- SIP Header manipulation
- SIP malformed packet protection
- Multiple Soft-switches supported
- QoS (ToS, DSCP)
- NAT Traversal

### Capabilities

- Concurrent Calls : Supports 2000 SIP sessions at maximum
- Transcoding : Supports 1500 transcoding calls
- CPS for Call : 200 calls per second at maximum
- Registrations : Maximum SIP registrations: 10000
- CPS for Registration: 200 Registration per second
- SIP Trunk: 128 SIP trunks at maximum

### Media Capabilities

- Voice, FAX support
- Codecs: G.729, G.723, G.711, iLBC, OPUS, G.726, AMR
- RTP Transcoding
- Pass-through fax
- No RTP detection
- One-way audio detection
- RTP/RTCP
- RTCP statistics reports
- DTMF: RFC2833, SIP Info, INBAND
- Silence Suppression
- Comfort Noise
- Voice Activity Detection
- Echo Cancellation
- Adaptive Dynamic Buffer

### Security

- Prevention of DoS and DDos attacks
- Control of access policies
- Policy-based anti-attacks
- Call Security with TLS
- White List & Black List
- Access Rule List
- Embedded VoIP Firewall

### Call Control

- Dynamic load balancing and call routing
- Flexible Routing Engine
- Call routing base on prefixes
- Call routing base on caller/called number regular expression
- Call routing base on time profile
- Call routing base on SIP URI
- Call routing base on SIP method
- Call routing base on endpoint
- Caller/ Called number Manipulation

### Maintenance

- Web-based GUI for Configurations
- Configuration Restore/Backup
- HTTP Firmware Upgrade
- CDR Report and Export
- Ping and Tracert
- Network Capture
- System log
- Statistics and Reports
- Multiple language support
- Centralized management system
- Remote Web and Telnet

### Environmental

- Power Supply: AC 100-240V, 50-60 Hz
- Power Consumption: 50w
- Operating Temperature: 0 °C ~ 45 °C
- Storage Temperature: -20 °C ~80 °C
- Humidity: 10%-90% Non-Condensing
- Dimensions (W/D/H): 436×320×44.5mm (1U)
- Unit Weight: 4.5 kg

### **For More details:**

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