

SBC

Session Border Controller

UB-SBC50



Product Description

UBIQCOM UB-SBC50 provides rich SIP-based services such as safe network access, robust security, system interworking, 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 network, embedded Linux operating system, UB-SBC50 delivers high capability while achieves low power dissipation.

It supports 50 concurrent SIP sessions and transcodes up to 50 concurrent calls, and allows encrypted sessions via TLS and SRTP. The session border controller supports transcoding of G.729, G.723, G.711, G.726, iLBC, AMR and OPUS. Besides, it also supports WebRTC, allowing desktop and mobile browsers to initiate and receive calls to/from your SIP service over web socket and WebRTC completely transparently.

Product Features

- Supports up to 2000 concurrent SIP sessions
- Support WebRTC2SIP to turn WebRTC client into a phone with audio capability
- Support forwarding of 2000 calls on media, and transcoding of 1200 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
- 1+1 high availability with two SBCs, dual hot-swappable power supplies

UB-SBC50 Session Border Controller

Physical Interfaces

Ethernet Ports:

- 4* 10/100/1000M Base-T Ethernet ports
- 1* 10/100/1000M Base-T (Admin)
- 1* USB
- 1* TF Card Slot
- Serial Console
- 1* RS232, 115200bps, RJ45

Media Capabilities

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

Environmental

- Power Supply: DC 12V
- Power Consumption: 10W
- Operating Temperature: 0 °C ~ 45 °C
- Storage Temperature: -20 °C ~80 °C
- Humidity: 10%-90% Non-Condensing
- Dimensions (W/D/H): 227×147×39mm Unit
- Weight: 1.5 kg

Capabilities

- Concurrent Calls
- Supports 2000 SIP sessions at maximum Transcoding
- Supports 1200 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
- Unlimited SIP Trunks

Security

- Prevention of DoS and DDoS attacks
- Control of Access Policies
- Policy-based anti-attacks
- Call Security with TLS, SRTP
- 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 express
- 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

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

Maintenance

- Web-bases 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

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