

# SBC

## Session Border Controller

**UB-SBC5000**



### Product Description

UBIQCOM UB-SBC5000 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 5000 concurrent SIP sessions and transcode 1500 concurrent calls. Meanwhile, it supports 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, UB-SBC5000 also supports the transcoding of iLBC, AMR and OPUS.

### Key Features

- Supports up to 5000 concurrent SIP sessions
- Support WebRTC2SIP to turn WebRTC client into a phone with audio capability
- Support 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
- 1+1 high availability with two SBCs, dual hot-swappable power supplies

# UB-SBC5000 Session Border Controller

### Physical Interfaces

MCU (Main Control Unit): 1  
MFU (Main Function Unit): 4  
Ethernet Ports:  
8\* 10/100/1000M Base-T Ethernet ports  
Serial Console  
1\* USB Port

### Media Capabilities

Voice, FAX support  
Codecs: G.729, G.723, G.711, iLBC, OPUS, G.722, AMR  
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  
SIP Recording (SIPREC)  
Comfort Noise  
Voice Activity Detection  
Echo Cancellation  
Adaptive Dynamic Buffer

### Environmental

Dual Power Supply: AC  
100-240V, 50/60Hz  
Power Consumption: 70W  
Operating Temperature: 0 °C ~ 45 °C  
Storage Temperature: -20 °C ~80 °C  
Humidity: 10%-90% non-condensing  
Dimensions (W/D/H):  
437×320×44mm  
Unit Weight: 6 kg

### 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

### 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  
TLS mutual authentication

### Capabilities

Concurrent Calls:  
Supports 5000 SIP sessions at maximum  
Transcoding:  
Supports 1500 transcoding calls  
CPS for Call:  
500 calls per second at maximum  
Registrations:  
Maximum SIP registrations: 20000  
CPS for Registration:  
500 Registration per second  
SIP Trunk:  
Maximum of 1024 SIP trunks  
SIPREC (Concurrency):  
Supports up to 2000 recording calls  
SRTP (Concurrency):  
Supports Up to 3000 encrypted calls  
WebRTC (Voice):  
Up to 2000 concurrent calls

### 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  
Port Mapping  
Network port binding  
Static Routing  
Remote capture  
Signaling tracking

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