

1000 User Register

120 Routes
Concurrent Calls



Transcoding: 70Routes CPS: 20

The RSBC 100 session Border Controller is designed for small and medium-sized enterprise, providing high quality session security data protection. It is tailor-made for communication security, guarantees for enterprises and address the problems brought by the evolution of enterprise voice networks such as mobile office, branch interconnection, and multi network integration.

Product Features

- High Availability Standby System
- Standard SIP protocol and flexible routing rules, perfectly compatible with IMS system
- Supports 1000 user registration, 120 concurrent sessions, and 70 Routes media transcoding processing
- Compatible with multiple encoding standards: G.711 (A-Law / U-Law)、G.723.1、G.729a/b、iLBC、G.722、G.722.1、G.722.2、AMR、H.264、H.265
- Support voice and video calls
- Supports forwarding registration, proxy registration, and trunk integration
- Support SIP based on UDP and TCP transmission
- Support SIP over TLS, SRTP/DTLS-SRTP encrypted sessions
- Compatible with mainstream signaling and media protocols, symmetric and asymmetric NAT penetration, Keep-alive, supports cross network deployment, and adapts to various network environments
- Supports whitelist, blacklist, topology hiding, DoS/DDoS attack defense, provides voice firewall, protects core devices from attacks
- Provide voice quality (packet loss rate) monitoring to ensure call quality
- Support Call Recording

Integration & Interoperability

The RSBC 100 is compatible with the mainstream signaling and media protocols in the current market, eliminating the differences between networks from different manufacturers, different solutions.

Multi-Features

The RSBC 100 not only provides SIP/IMS docking solutions for enterprise users, but also provide standard SBC functions for enterprise customers SBC functions, including branch networking, cross network interoperability, and heterogeneous networking between different communication systems.

The RSBC 100 also supports the customization of header fields, codec conversion, protocol conversion, DTMF mode conversion, call recording, voice quality monitoring, trunk redundancy and load balancing, call frequency limitation etc.

Easy to management

User-friendly graphical, web-based operation interface, easy to use, supports remote upgrade and remote maintenance, convenient for daily maintenance

High Security

As a network edge device, the RSBC100 solves the problem of system resource depletion caused by internet DoS/DDoS, UDP/TCP-Flood and other abnormal service requests, provide enterprises with total network security.

High Compatible

Supports multiple protocols: IPv4/IPv6, UDP/TCP, RTP/RTCP/MSRP, TLS/SRTP, SIP/IMS, HTTP/HTTPS, NTP/SNTP, etc., with strong compatibility

Performance

Call Concurrency	Maximum 120 (unencrypted)/100 (encrypted) concurrent calls
Transcoding Concurrency	Supports up to 70 channels of encoding and decoding conversion
Call CPS	20 completed calls per second
Registered Users	Maximum 1000 Registered Users

Voice

Audio and video codecs	G.711 (A-Law / U-Law), G.723.1, G.729a/b, iLBC, G.722, G.722.1, G.722.2, AMR, H.264, and H.265, etc;
NGN and IMS Protocol Conversion	
Call Recording	
Voice Quality	802.1p/QVLANtagging, QOS, TOS, DiffServ, Voice Attenuation (VAD), Comfort Noise Generation (CNG), Echo Cancellation (AEC), Fixed/Dynamic Voice Gain Control, Jitter Buffer
Fax	G.711 Transparent Fax, T.38 Fax, compatible with G3 fax machines up to 33.6kbps (Transparent)
DTMF mode	RFC2833, SIP-INFO, INBAND

Protocols

Networking	IPv4/IPv6, SSH, HTTP/HTTPS, DNS, ARP, NTP/SNTP, ICMP
Media	UDP/TCP, RTP/RTCP/MSRP, TLS/SRTP
Terminal agent/forwarding registration and authentication	
SIP V2, IMS	
QoS (IP TOS)	
SIP B2BUA	
Signaling message fragmentation	
NAT travel through	

Call Handling

Calling and Caller Number Transformation	
Route selection based on calling/caller number prefixes	
Select the corresponding call routing according to the time slot policy	
Trunking redundancy and load balancing	
Heterogeneous network routing redundancy/load balancing	

Security

Black/white list based access control
DOS/DDOS Attack Defense
UDP/TCP-Flood Attack Defense
Policy-based SIP Attack Defense
TLS, SRTP/DTLS-SRTP Encrypted Sessions
Black/white list of calling and receiving numbers
Policy-based call frequency restriction
Local and off-site dual-server disaster recovery deployment

Management & Maintenance

Web-based visual configuration and maintenance management (Simplified Chinese)
Command line based configuration and maintenance management (SSH)
Configure data backup/recovery
Built-in network data capture function
Multi-level log management; system logs, operation logs, call logs

CPU	2.6 GHz(dominant frequency)
RAM	8G
Flash	250G
H×W×D	45 × 300 × 430 mm
Weight (net)	3.7kg
Network Interface	6×10/100/1000Mbps adaptive network ports
Power	100 to 240V AC, 50/60 Hz
Operating	Temperature: -15 to 60°C Humidity: 10 to 90% RH (non-condensing)
Storage	Temperature: -40 to 70°C Humidity: 5 to 90% RH (non-condensing)