

SX3000

Session Border Controller



SX3000, an SBC (Session Border Controller), is a member of VoIP product family developed by New Rock Technologies, Inc. It interconnects voice communication over different IP networks and provides security schemes to protect the network from attacks and the privacy of communications.

Product and Feature Description

As an important component of VoIP deployment, an SBC usually resides between an access network and a backbone network to provide service to residential and/or enterprise customers. SX3000 is specifically designed to reside on the edge of enterprise/VPN network and perform such functions as access control, firewall and NAT traversal, protocol interworking, data encryption and management of QoS.

SX3000 is a highly compact SBC and is a cost-effective choice for service providers to deliver voice service, or for enterprises to build voice VPN between headquarter and branch offices. SX3000 provides the following features and functions:

- ✧ NAT/firewall traversal
- ✧ Registration and authentication of SIP terminal
- ✧ Encryption and decryption of signaling and voice media streams
- ✧ Access control through IP table
- ✧ RTP proxy
- ✧ Internetworking with up to 4 different networks
- ✧ Surveillance and network failover
- ✧ Status and statistics report

Configurations and Performance

SX3000 is configured with multiple TI C5509 digital signal processing chips for vocal media processing. It supports the registration of up to 3000 SIP terminals.

SX3000 supports protocols of SIP & MGCP and TLS/SRTP for signaling and media encryption. It is the best choice for carriers and enterprises to achieve the interworking of IP vocal system and the setting of IP telephony network.

Easy to Operate and Maintain

SX3000 supports the web-based interface for system administration. It also supports remote operation of system maintenance, including software upgrade, parameters configuration, log file download, collecting statistics, data, and etc.

- Small footprint and multiple functions for enterprise deployment
- Support TLS/SRTP for signaling and media security
- RTP proxy
- NAT/firewall traversal

New Rock Technologies VoIP Products

SX3000

System Specification

Functions	
Signaling and/or voice encryption	Supports TLS/SRTP and other encryption scheme
Voice processing	RTP packet forward; NAT/firewall traversal
Soft switch platform	Connections to multiple ITSP servers
Security	Access control through IP table; conceal of NAT address; encryption & decryption; blocking call from untrusted devices; discarding unknown messages
Registration and authentication	Support registration and authentication of SIP terminals
Protocols	SIP, RTP/RTCP, TLS, SRTP, HTTP/HTTPS, TCP/UDP, MGCP
QoS	Ensure voice and call quality
Surveillance of network	Network failover
Statistics	Visit history; online terminal list; call traces
Capability	
Concurrency	600 without TLS/SRTP and 300 with TLS/SRTP
User registration	3000 SIP terminals
Delay	<30 microseconds
Management	
Interface	Web
Maintenance	RS-232 console; telnet; remote configuration and maintenance
Hardware	
Ethernet connector	RJ45, 4×10/100/1000Base-T, self-adaptive
SD Interface	1
CON Interface	RJ45
Internal memory	256MB
Flash memory	32MB
Processor	TI AM3352
DSP	TI C5509
Input voltage	~100-240V, 50/60Hz, 1A
Power consumption	18 Watt
Dimension (H x W x D)	44×440×300 mm; 1U high; 19’’
Weight	Net weight: 3 kg; gross weight: 5 kg
Environment	
Operation	Temperature: 0~40; humidity: 10%~90% (non-condensing)
Non operation	Temperature: -10~60; humidity: 5%~90% (non-condensing)
Other specifications	
Telecommunication standard	FCC Part 15, CE

Related Products

- MX Series VoIP Gateway
- OM Series IPPBX
- WROC Wireless All-in-one
- ISG Series xPON
- Application Software