## SX1000    Session Border Controller

SX1000, 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. SX1000 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.

SX1000 is a highly compact SBC and is a cost-effective choice for service provides to deliver voice service, or for enterprises to build voice VPN between headquarter and branch offices. SX1000 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 3 different networks
- Surveillance and network failover
- Status and statistics report

- Small footprint and multiple functions for enterprise deployment

- Support TLS/SRTP for signaling and media security

- RTP proxy

- NAT/firewall traversal

### Configurations and Performance

SX1000 adopts the CPU chip of Motorola MPC family and is configured with multiple TI C5509 digital signal processing chips for vocal media processing. It supports the registration of up to 500 SIP terminals. In the chassis of 1U high, SX1000 is configured of a master card with three 100M-Ethernet ports.

SX1000 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

SX1000 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.

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# SX1000

## 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, TCP/UDP |
| QoS | Ensure voice and call quality |
| Surveillance of network | Network failover |
| Statistics | Visit history; online terminal list; call traces |
| **Capability** | |
| Concurrency | 200 |
| User registration | 1000 SIP terminals |
| Delay | ＜30 microseconds |
| **Management** | |
| Interface | Web |
| Maintenance | RS-232 console; telnet; remote configuration and maintenance |
| **Hardware** | |
| Ethernet connector | RJ-45, 10/100 Base-T, auto sensing |
| Internal memory | 128MB |
| Flash memory | 8MB |
| CPU | Motorola PowerPC 8250 |
| DSP | TI C5509 |
| Input voltage | 100~240 AC, 50~60 Hz, input current 1AMP max |
| Power consumption | 70 Watt |
| Dimension (H x W x D) | 4.4 X 44 X 44 cm; 1U high; 19'' |
| Weight | Net weight: 5 kg; gross weight: 7.3 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 |

## Related Products

- MX VoIP Gateway Series
- MX100-TG Trunking Gateway
- OM IPPBX
- OX Hybrid Office Telephone System
- Element Management System

New Rock Technologies, Inc. is a China based innovation company, focusing on the developing and manufacturing of VoIP equipments. We offer wide range of VoIP products including all-in-one IP-PBX, hybrid IP-PBX, media gateway, session boarder controller, and related application software. We work with service providers, enterprises, system integrators, resellers, independent software vendors, as well as OEM partners.
New Rock is fully funded by IDG Technology Venture Investment, Inc and other investors.