

SX 30 Session Border Controller



Packet forwarding latency: < 30 ms

Concurrent sessions: 20 (unencrypted) /
10 (encrypted)

Registered users: 200 (encrypted / unencrypted)

CPS=4



The SX30 is a session border controller (SBC) designed by New Rock for small and medium-sized enterprises (SMEs). It delivers robust session-level security and data protection, ensuring secure communications across evolving enterprise voice networks. The SX30 effectively addresses challenges such as mobile workforce enablement, branch connectivity, and multi-network convergence.

The SX30 is typically deployed at the edge of an enterprise network or VPN. It securely and efficiently connects IP sessions from remote branch offices to the enterprise's internal unified communications system (such as an IP-PBX) over VPN or the public Internet. The SX30 can also be positioned between a carrier's private voice network (e.g., an IMS network) and the enterprise intranet, enabling seamless access from the enterprise's communication system to the operator's IP-based voice services.

Integration & Interoperability

The SX30 Session Border Controller is compatible with mainstream signaling and media protocols, bridging differences across vendors, solutions, and networks to enable true unified communications for enterprises.

Rich-Features

The SX30 Session Border Controller not only supports SIP/IMS interconnection solutions for enterprise users but also delivers full-featured SBC capabilities—including branch networking, cross-network communication, and seamless integration between heterogeneous communication systems.

Convenient management

The SX30 Session Border Controller features an intuitive web-based graphical interface for easy operation. It supports remote upgrades and maintenance, ensuring hassle-free day-to-day management.

Product Features

- Firewall/NAT traversal capability
- Voice proxy for inter-network IP phone communication
- Encryption and decryption of signaling and media streams for secure communications
- Voice quality monitoring (e.g., packet loss rate) to ensure call quality
- SIP terminal registration and authentication
- Network failover and disaster recovery support
- VoIP protocol port mapping and transformation
- Security features including whitelist control, topology hiding, and SSH access
- Gateway registration and authentication support

High Security

As a network edge device, the New Rock SX30 Session Border Controller mitigates system resource exhaustion caused by abnormal service requests such as DoS/DDoS and UDP/TCP floods, delivering comprehensive network security protection for enterprises.

High Compatible

The SX30 Session Border Controller supports a wide range of protocols—including IPv4, UDP/TCP, RTP/RTCP/MSRP, TLS/SRTP, SIP/IMS, HTTP/HTTPS, and NTP/SNTP—offering robust compatibility.

Technical Specifications

Protocol

Network	Telnet, SSH, HTTP, HTTPS, DNS, ARP, DNS, NTP/SNTP, ICMP
Media	SIP(UDP), TCP/UDP/IP, MSRP, RTP/RTCP
QoS	Support IP TOS
Media Proxy	RTP packet forwarding, Firewall traversal, NAT traversal (proximal and remote)
Authentication	Supports terminal registration and authentication
Message Fragmentation	Supports signaling message fragmentation, Maximum MTU: 1500 bytes

Security

Supported Protocols	HTTP/HTTPS, SFTP, SSH, TLS/SRTP
Customizable Ports	SIP, HTTP/HTTPS access, RTP
Encryption:	TLS/SRTP for signaling and media streams
Security Policies	Media and signaling stream filtering, Blocking of illegal IP packets, NAT address hiding, Encryption/decryption support for media and/or signaling, Security logging
Login Security	Protection against web login brute-force attacks, Password complexity enforcement, Telnet/SSH access control, Whitelist support for web and Telnet access
Web/Telnet Whitelist	Supports up to 30 exact-match entries (network segment matching not supported)

Functions

Voice & Video	Supported
Softswitch Compatibility	Supports multiple platforms, Up to 5 softswitch systems simultaneously
Deployment Location	At the boundary of large/small networks, Behind NAT (proximal)

Maintenance & Management

Log Backup	Automatic transfer of operation/debug logs to internal storage
Network Management Platform	Compatible with Newrock NMS and third-party systems, Supports SNMP, TR-069 (TR-104, TR-106)
Web Interface	HTTPS-based graphical UI, Supports English and Chinese
Remote Maintenance	SSH, Web, Telnet
Static Routing Table Configuration:	Supported

Hardware Specifications

Network Ports	RJ45, 2×10/100/1000 Base-T, Auto-Adapt
Console ports	RJ45
System Memory	256MB
Flash Memory	16MB
Built-in Storage	16GB
H×W×D (1U)	35×203×136 mm
Net Weight	Max 0.72kg
Power Supply	12V 1.5A
Max Power Consumption	18 W
Installation	Desktop
Environmental Conditions (Operation)	Temperature: 0–40° C Humidity: 10%–90% RH (non-condensing)
Environmental Conditions (Storage)	Storage Temperature: -40–70° C Storage Humidity: 5%–90% RH (non-condensing)