



Neox NSBC1 Session Border Controller

Overview

Neox NSBC1 provides rich SIP-based services such as safe network access, robust security, system interworking, 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 network, embedded Linux operating system, NSBC1 delivers high capability while achieves low power dissipation.

It supports 500 concurrent SIP sessions and transcodes up to 200 concurrent calls, and allows encrypted sessions via TLS and SRTP. The session border controller supports transcoding of G.729, G.723, G.711, G.726, iLBC, AMR and OPUS. Besides, it also supports WebRTC, allowing desktop and mobile browsers to initiate and receive calls to/from your SIP service over websocket and WebRTC completely transparently.

Pictures



Front View



Back View

Key Features

- Supports up to 500 SIP sessions and 200 transcoding sessions
- Support WebRTC2SIP to turn WebRTC client into a phone with audio capability
- SIP trunks & flexible routing rules for accessing IMS
- Embedded VoIP firewall, prevention of DoS and DDoS attacks
- Bandwidth limitation and dynamic white list & black list
- QoS, static route, NAT traversal
- Import & export of remote upgrade and configuration data
- User-friendly web interface, multiple management ways

Physical Interfaces

Ethernet Ports:

4* 10/100/1000M Base-T Ethernet ports

1* 10/100/100M Base-T (Admin)

1* USB 2.0

Serial Console

1* RS232, 115200bps, RJ45

Media Capabilities

Voice, FAX support

Codecs: G.729, G.723, G.711, iLBC,

G.726, OPUS

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

Comfort Noise

Voice Activity Detection

Echo Cancellation

Adaptive Dynamic Buffer

Environmental

Power Supply: 1+1, 100-240VAC, 50-60 Hz

Power Consumption: 15W

Operating Temperature: 0 °C ~ 45 °C

Storage Temperature: -20 °C ~ 80 °C

Humidity: 10%-90% Non-Condensing

Dimensions (W/D/H): 437*300*44mm

Unit Weight: 4.5 kg

Capabilities

Concurrent Calls

Supports up to 500 SIP sessions

Transcoding

Supports up to 200 transcoding calls

CPS for Call

25 calls per second at maximum

Registrations

Maximum SIP registrations: 5000

CPS for Registration

25 Registration per second

SIP Trunks

Unlimited SIP Trunks

Security

Prevention of DoS and DDoS attacks

Control of access policies

Policy-based anti-attacks

Call Security with TLS

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

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

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

About Sterlite Technologies Ltd. (STL)

STL is a leading global optical and digital solutions company providing advanced offerings to build 5G, Rural, FTTx, Enterprise, and Data Centre networks. The company, driven by its purpose of 'Transforming Billions of Lives by Connecting the World', designs and manufactures in 4 continents with customers in more than 100 countries. Telecom operators, cloud companies, citizen networks, and large enterprises recognize and rely on STL for advanced capabilities in Optical Connectivity, Global Services, and Digital and Technology solutions to build ubiquitous and future-ready digital networks. STL's business goals are driven by customer-centricity, R&D, and sustainability. Championing sustainable manufacturing, the company has committed to achieving Net Zero emissions by 2030.

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