

# neox

Making every conversation count



## Neox NPG2000B PRI Trunk Gateway

Neox NPG2000B is a new-generation intelligent VoIP gateway, which is designed for enterprises, telecom operators and various industries. Focusing on a concept of maintainable, manageable and operable, NPG2000B features high integration and large capacity. It provides carrier-grade VoIP and FoIP services, as well as value added functions such as modem and voice recognition. Thus it constructs a flexible, high-efficient, future-oriented communication network for users.

NPG2000B supports a range of signaling protocols, realizing the interconnection between SIP and traditional signals like SS7 and PRI. It supports multiple codec methods, offers signal encryption technology and smart voice recognition technology, and improves the utilizing efficiency of trucking resources while ensuring voice quality. The trunk gateway is ideally fit for various access networks of SMEs, call centers, telecom operators and large-scale enterprises.

## Pictures



Neox NPG2000B

## Key Highlights

- Carrier grade hardware design, 1+1 power supply and MCU, hot plug
- Supports IPv4 and IPv6 in addition to Routing Protocols, static routes, PPP, PPPoE, Frame Relay, 802.1 p/ q VLAN Tagging
- High-integrated structure, up to 16E1 ports in 1U size
- Support flexible dialing rules and operations, allowing users to customize dialing rules according to different working environments.
- Support multiple coding standards: G.711A/U, G.723.1, G.729A/B and iLBC

## Physical Interfaces

### • E1/T1 Ports:

4/8/12/16 E1/T1

### • DTU Module:

4 E1/T1

### • Interface Type

RJ48 (Impedance 120Ω)

### • Ethernet Impedance

GE1: 10/100/1000 BaseT Adaptive Ethernet

GE0: 10/100/1000 BaseT Adaptive Ethernet

### • Serial Port

1\* RS232, 115200bps

## Voice Capabilities

- Codecs: G.711a/μ law, G.723.1, G.729A/B, iLBC, AMR
- Silence Suppression
- Comfort Noise
- Voice Activity Detection
- Echo Cancellation (G.168), with up to 128ms Adaptive Dynamic Buffer
- Voice, Fax Gain Control FAX: T.38 and Pass-through
- Support Modem/POS
- DTMF Mode: RFC2833/Signal/In-band
- Clear Channel/Clear Mode

## Environmental

- 1+1 Redundancy Power Supply
- Power Supply: 100-240VAC, 50-60 Hz
- Power Consumption:45W
- Operating Temperature:0 °C ~ 45 °C
- Storage Temperature: -20 °C ~80 °C
- Humidity:10%-90% non-condensing
- Dimensions(W/D/H):  
436\*300\*44.5mm(1U)
- Unit Weight: 3.8kg
- Compliance: CE, FCC

## PSTN

### • ISDN PRI:

23B+D(T1),30B+D(E1), NT or TE

ITU-T Q.921, ITU-T Q.931, Q.Sig

### • Signal 7/SS7:

ITU-T, ANSI, ITU-CHINA

MTP1/MTP2/MTP3, TUP/ISUP

### • E1 Frame Type:

DF, CRC-4, CRC\_ITU

### • T1 Frame Type:

4-Frame Multi-frame (F4, FT),

2-Frame Multi-frame (F12, D3/4),

Extended Super-frame (F24, ESF),

Remote Switch Mode (F72, SLC96)

### • Line Codes:

E1: NRZ, CMI, AMI, HDB3

T1: NRZ, CMI, AMI, B8ZS

### • Clock:

Local/Remote Clock Source

## Maintenance

Web GUI Configuration

Data Backup/Restore

PSTN Call Statistics

SIP Trunk Call Statistics

Firmware Upgrade via

TFTP/FTP/Web

Network Capture

SNMP v2

### • Syslog:

Debug, Info, Error, Warning, Notice

Call History Records via Syslog

NTP Synchronization

Centralized Management System

Supports SSH/SCP

## Software Features

Local/Transparent Ring Back Tone

Overlapping Dialing

Dialing Rules with up to 2000 PSTN

group by E1 port or E1 Timeslot

IP Trunk Group Configuration Voice

Codecs Group

Caller and Called Number Whitelists

Caller and Called Number Blacklists

Access Rule Lists

IP Trunk Priority

## VoIP Protocol

SIP v2.0 (UDP/TCP), RFC3261

SDP, RTP(RFC2833), RFC3262,

3263,3264,3265,3515,2976,3311

SIP TLS/SRTP

RTP/RTCP, RFC2198, 1889

SIP-T, RFC3372, RFC3204,

RFC3398

SIP Trunk Work Mode: Peer/Access

SIP/IMS Registration:

With up to 2000 SIP Accounts NAT:

Dynamic NAT, Rport

## Call Features

Flexible Route Methods

Intelligent Routing Rules

Call Routing base on time

Call Routing base on Caller/Called

Prefixes

256 Route Rules for each direction

Caller and Called Number

Manipulation

PSTN-PSTN, PSTN-IP, IP-PSTN

## 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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