

neox

Making every conversation count



NPG2000 PRI Trunk Gateway

NPG2000 is a new-generation intelligent VoIP gateway, which is designed for enterprises, telecom operators and various industries. Focusing on the concept of maintainable, manageable, and operable, NPG2000 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, highly efficient, future-oriented communication network for users.

NPG2000 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



NPG2000



Key Highlights

- Carrier grade hardware design, 1+1 hot swappable power supply
- 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 20 E1 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:

4/8/12/16/20 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, FTx, 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.

Contact us at:

Phone: +91 9712900567

For queries or demo email us: presales.neox@stl.tech

