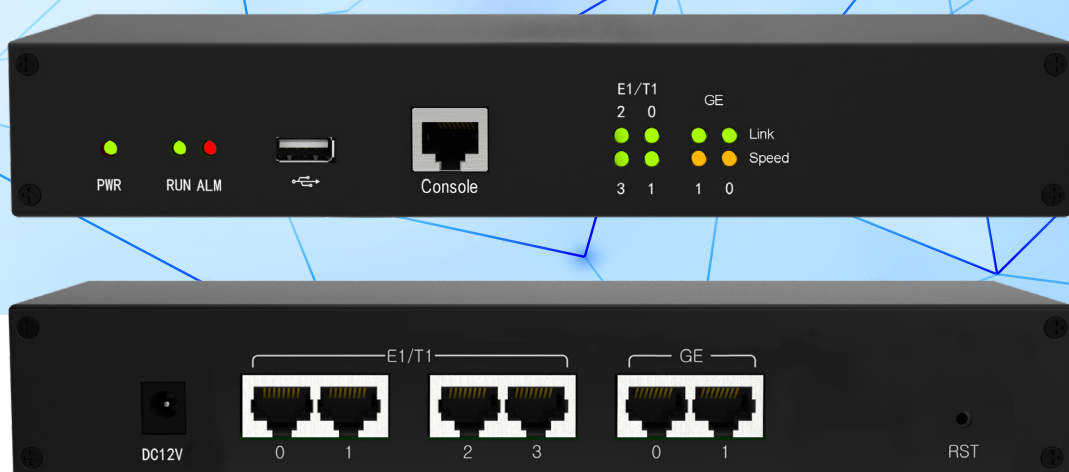


NPG200 PRI Trunk VoIP Gateway



The Neox NPG200 PRI Trunk VoIP Gateway is an advanced solution that bridges ISDN PRI and SIP networks, enabling cost-effective VoIP telephony. It offers seamless integration with existing PBX/IP-PBX systems, allowing businesses to minimize communication costs without significant investment in infrastructure upgrades.

With its flexible routing capabilities, the Neox NPG200 can function between PBX systems and PSTN, reducing the need for additional E1/T1 ports. Designed for SMEs, call centers, telecom operators, and large enterprises, it ensures substantial cost savings and optimal connectivity for modern access networks.

Key Features

- Fully compliant with ISDN standards and interoperable with a wide range of IP-PBX systems.
- Supports up to 60 concurrent calls through dual E1/T1 interfaces.
- Preserves existing dialing patterns and business communication workflows.
- Utilizes current E1/T1 ISDN PRI interfaces of PBX systems.
- Leverages VoIP functionality in existing IP-PBX setups.
- Features advanced echo cancellation, dynamic jitter buffering (DJB), voice activity detection (VAD), comfort noise generation (CNG), and Quality of Service (QoS) support.
- Provides built-in web-based management, SNMP support, and command-line interface (CLI) for efficient configuration and monitoring.

Physical Interfaces

E1/T1 Ports: 1 to 2 E1/T1 ports, RJ48 interface with 120 Ω impedance.

Ethernet Interfaces:

GE1: 10/100/1000 Base-T Adaptive Ethernet.

GE0: 10/100/1000 Base-T Adaptive Ethernet.

Serial Port: 1 RS232 port, supporting 115200bps.

VoIP Protocols

SIP v2.0 (UDP/TCP), RFC3261, SDP, RTP (RFC2833).

SDP, RTP (RFC2833), RFC 3262, 3263, 3264, 3265, 3515, 2976, 3311

SIP-T, RFC3372, RFC3204, RFC3398.

RTP/RTCP (RFC2198, 1889), TLS/SRTP.

SIP Trunk Work Modes: Peer/Access.

SIP/IMS Registration: Up to 256 SIP accounts.

NAT: Dynamic NAT, Remote port (RFC 3581)



Routing and Dialing

Route directions: PSTN-IP, IP-PSTN, PSTN-PSTN, IP-IP.
Overlapping Dialing, Local/Transparent Ring Back Tone.
Dialing Rules with up to 2000 voice codec groups.
Access Rule Lists, 100 SIP trunks.

PSTN Protocols and Features

ISDN PRI: 23B+D (T1), 30B+D (E1), NT or TE modes, compliant with ITU-T Q.921, Q.931, and Q.SIG. **SS7**
(Optional): ITU-T, ANSI, MTP1/MTP2/MTP3, TUP/ISUP protocols.
R2 MFC (Optional): Supports 22 other variant standards.

E1/T1 Frame Types:

E1: DF, CRC-4, CRC_ITU, line codes (NRZ, CMI, AMI, HDB3).

T1: 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 (NRZ, CMI, AMI, B8ZS).

Voice Capabilities

Codecs Supported: G.711a/μ-law, AMR, G.723.1, G.729AB, iLBC.

Enhancements:

Silence Suppression and Comfort Noise Generation.
Voice Activity Detection (VAD).
Echo Cancellation (G.168) with adaptive support up to 128ms.
Dynamic Buffer and Voice/Fax Gain Control.
FAX (T.38 and Pass-through), Modem/POS support.

DTMF Modes: RFC2833, SIP Info, In-band, Clear Channel, Clear Mode.

Additional Features: VLAN 802.1p/q, support for up to 60 concurrent calls.

Maintenance and Management

Configuration Interfaces: Web GUI (HTTP/HTTPS),
centralized management system.

Diagnostics:

PSTN and SIP trunk call statistics.
Firmware upgrades via TFTP/Web.
Network capture and Syslog (debug, info, error, warning, notice).



Maintenance and Management

Configuration Interfaces: Web GUI (HTTP/HTTPS), centralized management system.

Diagnostics:

PSTN and SIP trunk call statistics.

Firmware upgrades via TFTP/Web.

Network capture and Syslog (debug, info, error, warning, notice).

Event Management: Device event notifications to email, NTP synchronization.

Backup and Restore: Data backup/restore functionality.

Environmental Specifications

Power:

Adapter: 100-240VAC @ DC12V1A.

Power Consumption: 15W.

Operating Conditions:

Temperature: 0°C to 45°C (operating), -20°C to 80°C (storage).

Humidity: 10%-90% non-condensing.

Dimensions: 225mm (W) × 150mm (D) × 38mm (H).

Weight: 0.8 kg.

Compliance: CE, FCC.

Why STL-Neox?

Trusted Globally: CCaaS/UCaaS solution with 500+ customers worldwide

Certified Excellence: Made in India, Gartner-reviewed, ISO 27001/14001, CMMi Level 5, DOT-TRAI tested

All-in-One Platform: Unifies all communication needs on a single platform

Open SIP Protocol: Avoids vendor lock-in

In-House Development & Customization: Tailored to meet specific client needs

24x7 Professional Support: Strong post-sales service for seamless operations

Value for Govt. Helplines, Telcos, Data Centers, and Enterprises

Multi-Vendor Compatibility: Interoperable with various systems

Compliance-Ready: Meets data privacy and security standards

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.

Contact us at:

Phone: +91 9712900567

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

