STL neox

Making every conversation count

NXO1000-2O & 4O & 8O
Analog VoIP Gateway

PWR RUN FXO 1 FXO 0 FXS 1 FXS 0 LAN WAN

WAN AUX2 LAN1 LAN0

PWR

RUN

Link

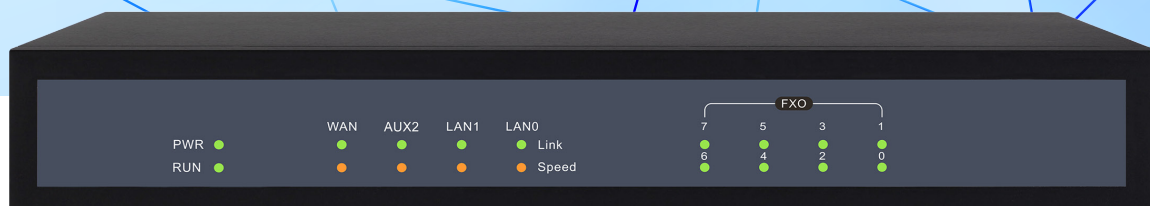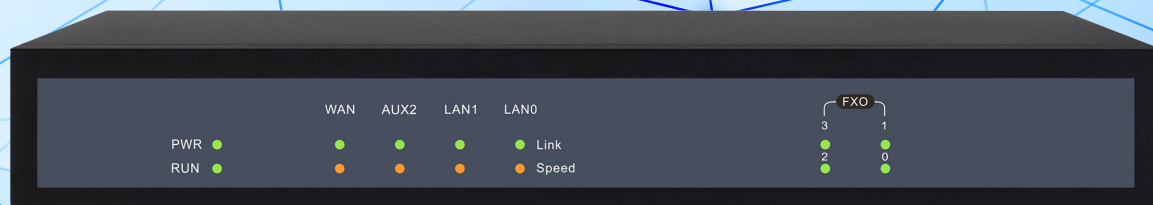Speed

FXO

3 1

2 0

WAN AUX2 LAN1 LAN0

PWR

RUN

Link

Speed

FXO

7 5 3 1

6 4 2 0

neox

NXO1000 is a designed Featuring 2,4 and 8 FXO ports, it provides a cost-effective and reliable solution ideal for small to medium-sized enterprises, dynamic call centers, and multi-location environments seeking to optimize their communication infrastructure with robust VoIP services and enabling seamless integration between modern IP-based telephony networks and traditional telephones (POTS) or legacy PBX systems with high-performance and multi-functional analog gateway.

NXO1000 ensures seamless interoperability with leading IMS/NGN platforms and advanced SIP-based IP telephony systems. With Supporting the industry-standard SIP protocol, scalable design and dependable performance, it is the perfect choice for organizations aiming to achieve enhanced connectivity, reduced costs, and superior voice quality.

Key Features

- **Seamless Integration:** Ensures full compatibility with SIP-based IP telephony systems and leading IMS/NGN platforms.
- **Affordable Connectivity:** Offers 2, 4 or 8 FXO ports for cost-effective and dependable analog-to-IP communication.
- **IP Support:** Operates seamlessly on both IPv4 and IPv6 networks for future-ready deployments.
- **Enhanced Voice Quality:** Supports multiple codecs, including G.711A/U, G.723.1, and G.729A/B, for crystal-clear audio transmission.
- **Reliable Fax Transmission:** Provides Fax over IP capabilities with T.38 and Pass-Through support.
- **Efficient Network Management:** Features TR-069 and SNMP protocols for streamlined remote monitoring and control

Environmental and Hardware

Power Supply: 100-240VAC, 50-60 Hz and external adapter DC 12V

Power Consumption:

5W for NXO 1000- 2O

12W for NXO 1000- 4O

20W for NXO 1000- 8O

Temperature Range:

Operating: **0°C to 45°C**

Storage: **-20°C to 80°C**

Humidity: 10%-90% (Non-Condensing)

Dimensions:

NXO 1000-2O: 195 x 135 x 35 mm, 0.6 kg

NXO 1000-4O: 242 x 152 x 40 mm, 1 kg

NXO 1000-8O: 242 x 152 x 40 mm, 1 kg

Management and Maintenance

Management Protocols:

SNMP, TR-069, TR 181

Auto Provisioning and Cloud-Based Management

Configuration and Diagnostics:

Web/Telnet Access

Firmware Upgrades via Web Interface

Configuration Backup/Restore

Call Detail Records (CDR) and Syslog Support

Tools: Ping, Traceroute, Network Capture

IVR-Based Local Maintenance

Time Management: NTP and Daylight Saving Time

Voice and Codec Capabilities

Supported Codecs: G.711 A/U, G.723.1, G.729A/B, G.726

Voice Optimization Features: Silence Suppression, Voice Activity Detection (VAD)

Comfort Noise Generation (CNG)

G.168 Echo Cancellation (128ms Adaptive Buffer)

Dynamic Jitter Buffer

Additional Functionalities: T.38 Fax Support / Pass-through

Programmable Gain Control

Modem/POS Support

DTMF Modes: Signal, RFC2833, Inband

VLAN 802.1P/802.1Q

Layer3 QoS and DiffServ

FXO Features

FXO Interface:

Connector: RJ11, FAS

Dial Modes: DTMF/Pulse

AC/DC Impedance Configuration

Call Detection: Supports Bellcore, Type 1 & 2, ETSI, and DTMF detection.

Caller ID Formats: FSK and DTMF

Polarity Reversal, Answer Delay,

Busy Tone Detection, and

No Current Detection

Capacity and Interfaces

Port Capacity: **2 FXO ports, 4 FXO ports,**

8 FXO ports (RJ 11 ports)

NXO 1000- 2O: 1* WAN, 1 * LAN Ethernet Ports (10/100Mbps, RJ45)

NXO 1000- 4O, 8O: 1* WAN, 3 * LAN Ethernet Ports (10/100Mbps, RJ45)

VoIP and Network Features

VoIP Protocols: SIP v2.0 (UDP/TCP), RFC 3261

RTP/RTCP (RFC 2198, 1889)

SDP, TLS/SRTP Encryption

NAT Traversal: STUN,

Static/Dynamic NAT

RFC Compliance:

2833, 3262/63/64/65, 3311, 3515, 2976

IPv6 in SDP (RFC 3266), TEL URI (RFC 2806)

SIP Trunking

Early Media and Early Answer

Session Timer in (RFC 4028), NAT report (RFC 3581)

Outbound Proxy Support

Supports DNS SRV, A Query, and NATPR Query

Network Optimization:

Supports Static IP, Dynamic IP, and PPPoE

DHCP Client Support: Compatible with IPv4

Comprehensive Protocol Support:

• Includes TCP, UDP, TFTP, FTP, ARP, RARP, Ping, NTP, SNTP, HTTP/HTTPS, and DNS

• Provides Ping and Tracert tools

• Supports advanced DHCP features, including Option 66, 120, and 121

• Integrates Open VPN

Advanced Software and Call Management Features

Access Control & Security:

Web ACL and Telnet ACL ensure secure system management and controlled access.

Routing and Call Management:

Prefix-based **Routing Rules** for intelligent call direction.

Flexible **Caller/Called Number Manipulation** for customized call handling.

Digit Mapping for efficient number translation and call routing.

Supplementary Call Services: Speed Dial, Port Group

Action URL Integration: Automated system triggers and external integrations to streamline operations.

Why STL-Neox?

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

Certified Excellence: Make 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.

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