

Making every conversation count

NEOX N303/N303P Entry Level IP Phone



NEOX N303/N303P is a SIP phone designed for enterprise communication, offering HD audio quality for an enhanced user experience. It features a 2.4-inch color display with a 320x240 pixel resolution, making it user-friendly and easy to navigate.

This model supports 4 SIP lines and allows for local 6-party conferencing, adding flexibility to communication. Additionally, it is equipped with dual 10/100 Mbps network ports and, for the N303P version, integrated PoE support, ensuring cost-effective and high-performance communication.

Key Specifications

- **2.4-inch color display** with a **320x240 pixel resolution**
- Supports **4 SIP lines** for streamlined multi-line communication
- **HD audio on both speakerphone and handset**, supporting **G.722 and Opus audio codecs**
- Supports a **6-party local conference** for effective group communication
- **Compatible with EHS wireless headsets** for added convenience
- **Dual 10/100 Mbps network ports**, with **PoE integration** (available only on N303P) and an optional external power source
- **Flexible installation options:** desktop stand or wall-mountable designModel

Phone Features

- **Local Phonebook:** Up to 1000 entries
- **Remote Phonebook:** XML/LDAP support (1000 entries)
- **Call Logs:** 600 entries (Incoming, Outgoing, Missed)
- **Blocked and Allowed Lists** for call management
- **Voice Message Waiting Indication (VMWI)**
- **Programmable DSS/Soft Keys** for quick access
- **Bluetooth Headset and Wi Fi Support** via dongle
- **Call Recording:** Server-based support
- **Screen Saver** for display customization
- **Network Time Synchronization**
- **Action URL/Active URI** for automation
- **uaCSTA** for advanced call control

Network Features

- **IP Configuration:** DHCP, Static IP, PPPoE
- **IP Modes:** IPv4, IPv6, Dual-Stack (IPv4 & IPv6)
- **Dual 10/100 Mbps Ethernet Ports** with PC bypass support
- **Network Access Control:** 802.1X Authentication
- **VPN Support:** OpenVPN, L2TP
- **VLAN Support** for network segmentation
- **QoS (Quality of Service)** for optimized performance
- **LLDP and CDP for network discovery and management**
- **Call Quality Monitoring:** RTCP-XR (RFC3611) and VQ-RTCPXR (RFC6035)



Provisioning and Control

- **Web Management Portal** for easy configuration
- **Configuration Management:** Export/Import options
- **Phonebook Management:** Import/Export support
- **Firmware Upgrade** for seamless updates
- **Web-Based Packet Dump** for troubleshooting
- **Syslog Support** for system logging and diagnostics
- **Auto-Provisioning:** FTP, TFTP, HTTP, HTTPS, DHCP, OPT66, SIP PNP, TR-069

Calling Functions

- **Make, Answer, or Reject Calls**
- **Hold and Resume Calls**
- **Mute/Unmute Microphone**
- **Call Waiting** for incoming call alerts
- **Redial Last Number**
- **Speed Dial** for quick access to contacts
- **Display or Hide Caller ID** (Anonymous Call)
- **Call Forwarding Options:** Always, Busy, No Answer
- **Call Transfer:** Attended or Blind
- **Call Pickup/Parking** (Server-dependent)
- **Auto-Answer** for hands-free convenience
- **Do Not Disturb (DND)** mode for uninterrupted time
- **6-Way Audio Conferencing** for group discussions
- **Intercom Function** for internal communication
- **Hotline Setup** for instant calling
- **Hot Desking Support** for shared workspace environments
- **Voice Messaging** (Stored on Server)

Network Security and Protocols

- **SIP 2.0** over UDP, TCP, and TLS
- **Secure Media:** SRTP, RTP/RTCP
- **VPN Support:** OpenVPN, L2TP
- **IP Configuration:** DHCP, PPPoE

- **IPv6 Compatibility** for modern networks
- **Network Discovery:** LLDP (Link Layer Discovery Protocol)
- **Authentication:** 802.1X Network Access Control
- **Encryption:** AES-128 and AES-256 for data security
- **Firewall Traversal:** STUN
- **Time Synchronization:** NTP
- **File Transfer:** FTP/TFTP
- **Web Access:** HTTP/HTTPS
- **Remote Management:** TR-069

Audio Features

- **Wideband ADC/DAC** with 16KHz sampling for superior audio performance
- **Full-Duplex Acoustic Echo Cancellation (AEC)** for crystal-clear calls
- **Wideband Audio Codecs:** G.722, Opus
- **Narrowband Audio Codecs:** G.711a/u, G.723.1, G.726, G.729A/B, iLBC
- **Packet Loss Compensation (PLC)**
- **Adaptive Jitter Buffer** (Dynamic)
- **DTMF Support:** In-Band and Out-of-Band (RFC2833/SIP INFO)
- **VQM** (Voice Quality Monitoring)
- **Advanced Voice Processing:**
 - Noise Reduction (NR)
 - Automatic Gain Control (AGC)
 - Voice Activity Detection (VAD)
 - Comfort Noise Generation (CNG)
 - Background Noise Estimation (BNE)
- **Voice Quality Enhancements:**
 - Packet Loss Concealment (PLC)
 - Dynamic Adaptive Jitter Buffer
 - VQM (Voice Quality Monitoring)
- **DTMF Support:** In-band, Out-of-Band (RFC2833/SIP INFO)
- **Handset with Hearing-Aid Compatibility (HAC)**
- **Handset with HD Voice Microphone & Speaker** (Frequency Range: 0 - 7KHz, for Handset/Hands-free modes)



Device Specifications

Display and Controls

- **Main LCD:** 2.4-inch color screen (320x240 resolution)
- **Keypad (36 keys):**
 - **Standard Digits:** 12 keys
 - **Line Keys:** 3 (with LED indicator)
 - **Soft Keys:** 4
 - **Function Keys:** 9 keys (Hold, Transfer, Voice message, Conference, Phonebook, MWI, Headset, Redial, Hands-free)
 - **Navigation Keys:** 4
 - **Volume Control:** 3 keys (Up, Down, Mute Microphone)
 - **OK Key:** 1

Connectivity and Ports

- **RJ9 Ports:**
 - Handset x1
 - Headset x1

• RJ45 Ports:

- Network x1
- PC x1 (Bridged to Network)

• DC Power Input: DC 5V / 2A

• Security Slot : 1

Accessories and Installation

- **HD Handset (RJ9)** x1
- **Standard RJ9 Handset Wire** x1
- **1.5M CAT.5E Ethernet Cable** x1
- **Installation:**
 - Desktop Stand:
 - Wall Mountable (Optional):

Environmental Conditions

- **Operating Temperature:** 0°C ~ 45°C
- **Operating Humidity:** 10% ~ 95%

Indicators

- **Status Light:** Red

Why STL-Neox?

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

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

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