

Making every conversation count

N210 Reception IP Phone



The Neox Operator Console IP Phone is engineered to meet the communication needs of business leaders and high-performing office professionals. It optimizes operational efficiency and fosters enhanced collaboration through advanced features such as HD voice quality, support for 20 SIP lines, up to 106 programmable DSS keys, integrated Bluetooth, Wi-Fi connectivity (enabled via a Wi-Fi dongle), seamless integration with IP cameras and SIP video door phones, and codec H.264 compatibility for handling video calls.

Key Specifications

- **SIP Line Support:** Supports up to 20 SIP lines with 3-way conferencing and hotspot features.
- **Audio Quality:** Provides HD audio on both speakerphone and handset.
- **Displays:** Features a 4.3" main colour display and two 3.5" side color displays for DSS keys.
- **Connectivity:** Includes built-in Bluetooth and Wi-Fi support via a dongle.
- **DSS Keys:** Offers up to 106 DSS keys, including 42 tri-colored physical keys.
- **Video Call Support:** Supports H.264 codec for receiving video calls.
- **Ethernet and PoE:** Equipped with dual Gigabit Ethernet ports and integrated PoE functionality.
- **Ergonomic Design:** Includes an adjustable stand with angles of 40° and 50°.
- **Platform Compatibility:** Compatible with major platforms and supports handset, hands-free, and headset modes.
- **Power Options:** Provides intelligent DSS keys with an optional external power supply.

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)**

Phone Features

- **Local Phonebook:** Up to 2000 entries
- **Remote Phonebook:** XML/LDAP support (2000 entries)
- **Call Logs:** 1000 entries (Incoming, Outgoing, Missed)
- **Blocked and Allowed Lists for call management**
- **Voice Message Waiting Indication (VMWI)**
- **Programmable DSS/Soft Keys** for quick access
- **Bluetooth Integration:** Native Bluetooth support for connecting Bluetooth headsets or mobile devices.
- **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



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) and Cisco Discovery protocol (CDP)
- **Authentication:** 802.1X Network Access Control
- **Encryption:** AES-128 and AES-256 for data security
- **Firewall Traversal:** STUN
- **Time Synchronization:** SNTP
- **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
- **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)

Video Features

- **Video Call Resolution:** QCIF / CIF / VGA
- **Video Codec:** H.264



Device Specifications

- **Main Display:** Single 4.3-inch (480x272) color LCD screen.
- **DSS Key-Mapping Displays:** Dual 3.5-inch (320x480) color LCD screens.
- **Keypad Configuration (77 keys):**
 - **Dial Pad Keys:** 12 (Standard numeric keys)
 - **Programmable DSS Keys:** 42 with tri-color LED indicators
 - **Soft Keys:** 4
 - **Function Keys:** 6 (Hold, Call Forward, Phonebook, MWI, Headset, Redial)
 - **Navigation Keys:** 4
 - **Confirmation Key:** 1 (OK key)
 - **Return Key:** 1
 - **Volume Control Keys:** 3 (Up, Down, Mute for Microphone)
 - **Hands-Free Key:** 1
 - **Page Switch Keys:** 3
- **Handset:** HD quality, RJ9 interface (x1).
- **Handset Cable:** Standard RJ9, included (x1).
- **Ethernet Cable:** 1.5-meter CAT5, included (x1).
- **Back Stand:** Provided (x1).
- **Ports:**
 - **RJ9 (x2):** One for the handset and one for the headset.
 - **RJ45 (x2):** One for network, one for PC (bridged to network).
 - **USB 2.0 (x1):** Standard Type-A for Wi-Fi dongle or flash drive connection.
- **Power Input:** 5V/2A DC.
- **Power Usage:**
 - **PoE:** 2.6–9W.
 - **With Adapter:** 2.4–8W.
- **Operating Environment:**
 - **Temperature:** 0–45°C.
 - **Humidity:** 10–95%.
- **Installation:** Desktop-mounted stand.

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.

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