



Technical Specification

Nortel IP Phone 1220

Ideal for the moderate call activity of office workers

The IP Phone 1220 is a multi-line, intermediate-level desktop phone in the exciting IP Phone 1200 Series. Originally designed and optimized for small and medium-sized businesses, the IP Phone 1200 Series is now extended to enterprises, offering a competitive feature set with contemporary styling. The IP Phone 1220 is ideally positioned for employees with moderate communication needs.

Key features and benefits include:

- Multi-line IP Phone supports up to four line/programmable feature keys, eight fixed telephony keys, four context-sensitive soft keys and six shortcut/feature keys.
- 5 lines x 25 characters and 143 x 32 pixel display with anti-glare screen combined with a flexible two-position adjustable footstand optimizes viewing under varied lighting conditions.
- Four-way navigation cluster with Enter key maximizes user choice and flexibility in navigation.
- Superior audio quality leverages some of the latest technologies to ensure crystal-clear conversations.

- Integrated headset and speakerphone — supports a high-quality, two-way speakerphone (handsfree) and other optional headsets for executives or multi-tasking workers.
- Simplified communications — the most commonly used Nortel Business Communications Manager (BCM) and Nortel Communication Server 1000 features come pre-programmed on all IP Phone 1200 Series sets. You can also customize the sets from hundreds of BCM and Communication Server 1000 telephony features.
- Integrated 10/100 Base-T Ethernet switch with LAN and PC ports reduces costs, enabling a single cable drop to support both the phone and a collocated PC.
- Supports 802.3af standards-based PoE and local AC power via power adapter.
- Compatible with optional Key Expansion Modules (12-key LCD-based or 18-key LED-based).



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Physical specifications

Platform support

- Communication Server 1000
- Business Communications Manager 50

Display

- Monochrome Film Super Twist Nematic (FSTN) Liquid Crystal Display, 5 line x 25 character with anti-glare coating

IP Phone footstand adjustments

- Desktop viewing adjustments: 25 and 55 degree angles
- Wall mount adjustment: minus 5 degrees

Fixed and soft-label keys

- Fourteen fixed keys (Handsfree, Headset, Volume Up and Down, Mute, Hold, Goodbye, Applications, Messages, Redial, Directory, Conference, Services and Quit)
- Four context-sensitive soft-label keys for easy-to-use navigation*

Navigation cluster

- Four-way navigation cluster (left, right, up, down arrows) plus Enter key

Expansion Module

- Supports Expansion Modules for IP Phone 1200 Series** (12-key LCD-based or 18-key LED-based***)

User Selectable Ringtones

Headset support

- Supports third-party wired headsets

Languages supported

- Languages are platform and protocol dependent. Consult platform documentation of choice for further details.

Connectivity/data rates

- Integrated 10/100 Ethernet Switch
- Two 10/100 Ethernet ports for network connection and collocated PC connection
- Auto speed and duplex
- Manually configurable speed and duplex when used with Ethernet switches that do not auto-sense
- Auto MDIX on network port
- Ability to manually disable PC port

Dimensions

- Unpackaged: (H x W x D) 205 x 198 x 190 mm (8.1 x 7.8 x 7.5 inches) approximate, in desktop 55-degree position
- Packaged: (H x W x D) 254 x 260 x 111 mm (10 x 10.25 x 4.75 inches), approximate

Weight

- Packaged: 2.9 lb / 1.32 kg
- Unpackaged: 1.9 lb / .86 kg

Power

- Power over Ethernet: Supports IEEE 802.3af Power over Ethernet; Power Class 2
- AC power: Use Nortel approved adapter; 48VDC, 0.52A
- Power dissipation: 3.2 watts typical, 4.6 watts maximum

Protocols

- Nortel Communication Protocol

Audio Quality of Service

- G.711 a- and μ -g-law, G.723.1 and G.729a and Annex B
- 802.1p/Q, DiffServ and VLAN tagging of telephony port traffic
- Supports echo cancellation and silence suppression

Operating temperature

- +5°C to 40°C/40°F to 104°

Relative humidity

- 5% to 95% (non-condensing)

Storage temperature

- -40°C to 70°C/-40°F to 158°F

Administration and security

- Static, Partial and Full Dynamic Host Control Protocol (DHCP) address assignment (Full DHCP factory default)
- 802.1ab Link Layer Discovery Protocol (LLDP) for network auto-discovery and inventory management
- 802.1x and Extensible Authentication Protocol (EAP-MD5) for network authentication and access control
- Signaling path encryption with support for 128-bit Advanced Encryption Standard (AES)****
- Media path encryption with RFC 3711-compliant Secure Real-time Protocol (SRTP) pre-shared key and public key infrastructure*****
- Proactive Voice Quality Management (PVQM) for enhanced administration and diagnostics

Regulatory and safety compliance

EMC

- United States: FCC 47 CFR Part 15 Class B
- Canada: ICES-003 Class B
- Australia/New Zealand: CISPR 22
- European community:
 - EN55022 Class B
 - EN 55024
 - EN 61000-3-2
 - EN 61000-3-3
- Japan: VCCI
- Korea MIC: KN22 and KN24

Safety

- United States: UL 60950-1
- Canada: CSA 60950-1-03
- Australia/New Zealand: AS/NZS 60950.1:2003
- European Community: EN 60950-1+A11
- International: IEC 60950-1
- Mexico: NOM approvals

Other

- FCC Part 68 HAC
- IC CS-03 HAC
- Australia AS/ACIF 004
- New Zealand PTC 220
- Complies with the essential requirements and other relevant provisions of Directive 1999/5/EC10
- Complies with Reduction of Hazardous Substances (RoHS) – (6 of 6) as part of European Union Environmental Directive
- American Disabilities Act (ADA) compliant dialpad

* Context-sensitive soft-label keys are Nortel Communication Server/minimum release dependent.

** Number of supported modules is communication server dependent.

*** 18-key LED-based only supported on BCM platform.

**** May require deployment of Secure Multimedia Controller 2450, which is Nortel Communication Server dependent. Consult Nortel server documentation of choice for requirement details.

***** Public Key Infrastructure is Nortel Communication Server/minimum release dependent. Consult Nortel server documentation of choice for support details.

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