



Technical Specification

Nortel IP Phone 1230

Ideal for advanced knowledge workers and managers

The IP Phone 1230 is a multi-line, premium 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 1230 is best suited for power users with advanced communication needs such as managers, knowledge workers and administrative assistants.

Key features and benefits include:

- Multi-line IP Phone supports up to 10 line/programmable feature keys, eight fixed telephony keys, four context-sensitive soft keys and six shortcut/feature keys.
- 9 lines x 25 character 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, 9 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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NN123708-061108

In the United States:

Nortel
35 Davis Drive
Research Triangle Park, NC 27709 USA

In Canada:

Nortel
195 The West Mall
Toronto, Ontario M9C 5K1 Canada

In Caribbean and Latin America:

Nortel
1500 Concorde Terrace
Sunrise, FL 33323 USA

In Europe:

Nortel
Maidenhead Office Park, Westacott Way
Maidenhead Berkshire SL6 3QH, UK
Phone: 00 800 8008 9009

In Asia:

Nortel
United Square
101 Thomson Road
Singapore 307591
Phone: (65) 6287 2877



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