NORTEL

Technical Specification
Nortel IP Phone 1110
Standard-level IP Phone brings innovative new communications features to the desktop

The award-winning Nortel IP Phone 1110 brings a new realm of capabilities to the standard-level desktop IP Phone. Designed to meet general-purpose communication needs, the single-line Nortel IP Phone 1110 delivers innovative new features including support for a pixel-based, fully-backlit display. Menu and feature selection is flexible with an integrated four-way navigation cluster and context-sensitive soft-label keys. A built-in IEEE 10/100 Ethernet switch with both LAN and PC ports enables single cable drops to the desktop, reducing infrastructure costs. Along with robust and tightly linked communications features from Nortel Communication Servers, Nortel's IP Phone 1110 delivers key capabilities needed for today's business environments.

Key features and benefits include:

> Single-line IP Phone with eight fixed keys and four context-sensitive soft-label keys

> Backlit, pixel-based display, combined with a five-position adjustable footstand to 55-degrees optimizes viewing under varied lighting conditions

> Four-way navigation cluster with Enter key offers user choice and flexibility in navigation

> Integrated IEEE 10/100 Base-T Ethernet switch with LAN and PC ports reduces costs, enabling a single cable drop to support switching of traffic from both the phone and a collocated PC

> Supports 802.3af standard-based PoE and local AC power via power adapter

> Secured communications with standards-based signaling and media-path encryption along with network authentication for enhanced security[1]

> Integrated listen-only speaker for support of on-hook dialing

> Supports Unicode for expanded language and complex font presentation[2]

> Proactive Voice Quality Management (PVQM) for enhanced administration and diagnostics

> Tight linkage with Nortel Communication Servers offering a rich suite of reliable, quality-based secured communications

> Added convenience and time savings with field-upgradeable firmware using Trivial File Transfer Protocol (TFTP) or for sites requiring enhanced secure firmware upgrades: UNIStim File Transfer Protocol (UFTP)[3]

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[1] Authenticated Encryption Standard (AES) requires deployment of the Nortel Secure Multimedia Controller 2450 (SMC 2450) on Nortel Communication Server 1000.

[2] Nortel Communication Server/minimum release dependent. Consult server documentation of choice for further details.

[3] UNIStim FTP (UFTP) support requires Communication Server 1000 Release 4.5 or later.

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Technical specifications

Nortel platforms supported

- Nortel Communication Server 1000 RLS 4.0 and later
- Nortel Communication Server 2100 (SE10 or later)
- Nortel Communication Server 2000 (SN09U-MR7 or later)
- Media Gateway 1000B Expansion Chassis

Display

- Monochrome, Film Super Twist Nematic (FSTN) Liquid Crystal Display, 143 x 32 pixel, bitmapped, fully-backlit screen
- LCD contrast settings adjustable by users for enhanced viewing
- Configurable backlight timer extends the quality of the display experience with 5, 10, 15, 20 minute, 1 and 2 hour settings; "Sleep never" setting for 24x7 environments
- Unicode for expanded language and complex font presentation[2]

IP Phone footstand adjustments

- Desktop viewing adjustments: 32.5, 40, 47.5 and 55 degree angles
- Wall mount adjustment: minus 5 degrees

Fixed and soft-label keys

- Eight fixed keys (Hold, Goodbye, Handsfree (listen only), Volume Up and Down, Expand, Services and Inbox)
- 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

Color

- Graphite with silver metallic bezel finish

Connectivity/data rates

- Integrated Ethernet 10/100 Base-T auto-sensing with LAN and PC ports
- Manually configurable for 10 and 100 Mbps speeds when used with Ethernet Switches that do not support auto-sensing

User selectable ring tones

IP Call Recording

- Supports dual media stream IP Call Recording with Nortel Contact Recording and Quality Monitoring (CRQM)

Dimensions and Weight

- Size: (W x D x H)
  - 6.6 in x 7.3 in x 7.7 in /167mm x 185mm x 196mm — 55 degree footstand desktop configuration
  - 6.6 in x 6.4 in x 6.5 in/167mm x 163mm x 165mm — 32.5 degree footstand desktop configuration
  - 6.6 in x 8.3 in x 4.0 in/167mm x 212mm x 101mm — minus 5 degree footstand wall mount configuration
- Weight: (phone, handset and handset cord)
  - 1.81 lbs/0.82 kg

Power

- IEEE 802.3af Power over Ethernet
- Optionally available universal local AC power adapter ("brick style") supported (90-260 VAC, 50/60Hz power adapter delivering 48V DC @ 0.52A max)
- AC power cable (country specific) — orderable separately
- Power dissipation — IEEE Power Class 2. 100 Mbps: typical power consumption is 2.8 watts; full utilization at 5.89 watts (both figures exclusive of cable loss)

Administration and Security

- Static, Partial and Full Dynamic Host Control Protocol (Full DHCP factory default)
- 802.1ab Link Layer Discovery Protocol (LLDP) for network discovery and inventory management
- Supports Proactive Voice Quality Management (PVQM) for enhanced diagnostics and trouble-shooting
- 802.1x and Extensible Authentication Protocol (EAP) in MD-5 enabled networks for user-based authentication
- 128-bit Advanced Encryption Standard (AES) for signaling encryption[4]
- RFC 3711 compliant Secure Real-time Protocol (sRTP) pre-shared key and public key infra-structure for media path encryption[5]

Protocols

- E.164 dialing

Audio Quality of Service

- G.711 a-law, G.711 μ-law, 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°F

Relative humidity

- 5% to 95% (non-condensing)

Storage temperature

- -40°C to +70°C/-40° to +158°F

EMC

- United States: FCC 47 CFR Part 15 Class B
- Canada: ICES-003 Class B
- Australia/New Zealand:
  - AS/NZS 3548 Class B and CISPR 22 Class B
- European community:
  - EN55022: 1998+A1+A2 (Class B)
  - EN 55024: 1998+A1+A2
  - EN 61000-3-2
  - EN 61000-3-3
- Japan: VCCI
- Korea MIC
- China CCC

Safety

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

Other

- US/Canada: Hearing Aid Compatibility (HAC) as per FCC Part 68 and Industry Canada CS-03 Part V
- Australia: AS/ACIF 004
- New Zealand: PTC 220
- Complies with Reduction of Hazardous Substances (RoHS) - (6 of 6) as part of European Union Environmental Directive
- Complies with the essential requirements and other relevant provisions of Directive 1999/5/EC
- American Disabilities Act (ADA) compliant dialpad

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[4] Requires Nortel Secure Multimedia Controller 2450 (SMC) for deployment on Nortel Communication Server 1000.

[5] Public Key Infrastructure is Nortel Communication Server/minimum release dependent. Please consult Nortel server documentation for support details.

For more information, visit Nortel on the Web at **www.nortel.com**. For the latest Nortel news, visit **www.nortel.com/news**.

For more information, contact your Nortel representative, or call 1-800-4 NORTEL or 1-800-466-7835 from anywhere in North America.

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