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**Technical Specification**

**Nortel IP Phone 1120E**

Intermediate-level IP Phone brings innovative features to desktop communications and application access

*The award-winning Nortel IP Phone 1120E with Gigabit Ethernet unveils an exciting array of innovative communication features and capabilities with the intermediate-level desktop IP Phone. Ideally suited for office workers and administrative personnel, the four-line Nortel IP Phone 1120E supports presentation of data and Web-centric applications on its high-resolution graphical display. Application navigation is flexible, with the use of standard USB mice and keyboards as supported from the phone's integrated USB port. Combined with robust and tightly linked communications features from Nortel Communication Servers, the Nortel IP Phone 1120E is positioned to meet both today's and tomorrow's communications needs.*

**Key features and benefits include:**

- › Multi-line IP Phone supports four line/programmable feature keys, 14 fixed keys and four soft-label keys
- › High-resolution, backlit, graphical, pixel-based display, combined with a flexible five-position adjustable footstand placement, optimizes viewing in varied lighting conditions
- › Four-way navigation cluster with new "Enter/Send" key maximizes user choice and flexibility in navigation
- › Integrated USB port powers standard USB mice and keyboards, providing input and navigation options for application interaction and simpler menu selection
- › Integrated 10/100/1000 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 Gigabit Ethernet, positioning the phone's internal switch to accommodate growing multimedia-intensive, PC-based applications, thus aligning with investment made at the wiring closet
- › Supports 802.3af standard-based PoE and local AC power via power adapter
- › Secure Tools Menu offers local access to configuration, diagnostic and user preference options
- › Supports customized data and Web-based applications via external application servers, enriching users' experience with advanced multimedia interaction
- › Tight linkage with Nortel Communication Servers offers rich suite of reliable, quality-based telephony communications features
- › 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)<sup>1</sup>



**IP Phone 1120E**



<sup>1</sup>UNIStim FTP (UFTP) support is Nortel Communication Server dependent.

## Technical specifications

### Platform support

- Nortel Communication Server 1000 (formerly Succession 1000) Release 3.0 and later
- Supported on Media Gateway 1000B Expansion Chassis

### Display

- High-resolution, graphical, monochrome Film Super Twist Nematic (FSTN) Liquid Crystal Display, 240 x 80 pixel, fully bitmapped, backlit screen
- Display supports up to eight grey-scale levels
- Backlit LCD with local contrast settings enhances viewing
- Configurable backlight timer extends the quality in display experience with 5, 10, 15, 20 minute, 1 and 2 hour settings; "Sleep never" setting for 24x7 environments

### IP Phone footstand adjustments

- Desktop viewing adjustments: 25, 35, 45 or 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, Directory, Inbox/Message, Outbox/Shift, Quit, Copy, Services and Expand)
- Four state-sensitive soft-label keys for easy-to-use navigation

### Navigation cluster

- Four-way navigation cluster (left, right, up, down arrows) plus new Enter/Send key<sup>2</sup>

### USB port

- Single integrated USB port for standard USB mice, keyboards and powered hubs

### Expansion Module

- Supports IP Expansion Module for 1100 Series (18-button)

### Administration

- Static and Dynamic Host Control Protocol (Full DHCP factory default)
- 802.1x and Extensible Authentication Protocol (EAP)

### Dimensions and weight (approximate)

- Size (W x D x H)
  - 7.9 in x 7.4 in x 8.1 in/200mm x 188mm x 207mm — 55 degree footstand desktop configuration
  - 7.9 in x 8.0 in x 5.8 in/200mm x 203mm x 148mm — 25 degree footstand desktop configuration
  - 7.9 in x 4.0 in x 8.7 in/200mm x 101mm x 220mm — minus 5 degree footstand desktop configuration
- Weight (phone, handset, and handset cord)
  - 2.29 lbs/1.04 kg

### Color

- Graphite with silver metallic bezel

### Connectivity/data rates

- Integrated 10/100/1000 Base-T Auto-Sensing Ethernet switch for shared PC access (one LAN port and one PC port)
- Manually configurable for 10 and 100 Mbps speeds when used with Ethernet Switches which do not support auto-sensing
- Minimum Category 5e cabling required for Gigabit Ethernet deployment (Category 5e cable included as standard)

### Power

- Supports IEEE 802.3af Power over Ethernet, Nortel and selected Cisco pre-standard<sup>3</sup>
- Power dissipation: Gigabit Ethernet — 8 watts idle; 10.5 watts full utilization (not including cable loss). 100 Mbps — 6 watts idle; 8 watts full utilization (not including cable loss)
- 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

### Protocols

- E.164 dialing
- Session Initiation Protocol (SIP) ready<sup>4</sup>

### Codecs/Quality of Service

- G.711 a-law, G.711  $\mu$ -law, G.729a and Annex B
- 802.1p/Q, DiffServ and VLAN tagging of both telephony and PC port traffic

### 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
  - CISPR 22
- European community:
  - EN55022 Class B
  - EN 55024
  - EN 61000-3-2
  - EN 61000-3-3

### Safety

- United States: UL 60950-1 1st Edition
- Canada: CSA 60950-1-03
- European Community: EN 60950-1
- Australia/New Zealand: AS/NZS 60950.1: 2003

### US/Canada/Australia/EU Countries

- US/Canada: Hearing Aid Compatibility (HAC) as per FCC Part 68
- Australia: AS/ACIF S004?
- Complies with CE Marking Requirements
- EU Countries: This device complies with the essential requirements and other relevant provisions of Directive 1999/5/EC



Further details  
on Internet  
Telephony Expo at  
[www.tmcnet.com](http://www.tmcnet.com)

<sup>2</sup> Enter/Send key could be used to facilitate entry or data selection when engaged in data or Web-centric application interaction. The Enter/Send key requires Nortel Communication Server development and is not available at time of general availability.

<sup>3</sup> Cisco Catalyst 3550, 4503 and 6503 Ethernet Switches with software versions tested: 3550 - IOS 12.1 (13); 4503 - CATOS 7.6(3); 6503 - CATOS 8.3(2)

<sup>4</sup> Delivery of a native SIP stack to IP Phone 1120E is planned for release via future firmware download.

For more information, visit Nortel on the Web at [www.nortel.com](http://www.nortel.com).

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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