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TO ENHANCE THE USER EXPERIENCE AND
PERSONAL PRODUCTIVITY

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Technical Specification

Nortel IP Phone 1140E

Professional-level IP Phone supports a new dimension in desktop communications features and application presentation

The award-winning Nortel IP Phone 1140E with Gigabit Ethernet brings a new dimension in communication features and capabilities to the professional desktop IP Phone. Ideally suited for managers and knowledge workers, the multi-line Nortel IP Phone 1140E supports presentation of data and Web-centric applications on its high-resolution graphical display, while an integrated USB port streamlines applications navigation with use of standard USB mice and keyboards. Combined with the rich telephony feature sets delivered from Nortel Communication Servers, deployment of the Nortel IP Phone 1140E enhances personal productivity with delivery of a superior user experience for both today's and tomorrow's communications needs.

Key features and benefits include:

- Multi-line IP Phone supports up to 12 line/programmable feature keys¹, 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 under 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 Bluetooth® 1.2 audio gateway supports Bluetooth headsets, boosting productivity with greater freedom at the desktop
- 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 in the wiring closet
- Supports 802.3af standard-based PoE and local AC power via power adapter
- Secured 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)²



IP Phone 1140E



¹ Nortel Communication Server dependent. Twelve programmable line/feature keys require "shift" feature. Servers not supporting shift deliver six programmable line/feature appearances.

² UNIStim FTP (UFTP) is Nortel Communication Server dependent.

Technical specifications

Platform support

- Nortel Communication Server 1000 (formerly Succession 1000) Release 3.0 and later³
- Supported on Media Gateway 1000B Expansion Chassis

Display

- High-resolution, graphical, monochrome Film Super Twist Nematic (FSTN) Liquid Crystal Display, 240 x 160 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 key⁴

USB port

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

Bluetooth

- Integrated *Bluetooth* 1.2 audio gateway for *Bluetooth* headset profiles
- Supports up to 10 m/33 ft. range from gateway (*Bluetooth* power class 2)

Expansion Module

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

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)
 - 2.47 lbs/1.12 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 that 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-standard⁵
- 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

Administration

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

Protocols

- E.164 dialing
- Session Initiation Protocol (SIP) ready⁶

Codecs/Quality of Service

- G.711 a-law, G.711 μ -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

³ Supports up to 12 programmable line/feature appearances with use of shift function

⁴ 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 planned for enablement as of initial general availability.

⁵ 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)

⁶ Delivery of a native SIP stack to IP Phone 1140E is planned for future firmware download.

For more information, visit Nortel on the Web at 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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