NORTEL

Technical Specification
Nortel IP Phone 2007
A new dimension in desktop IP Phone user experience

The Nortel IP Phone 2007 unveils an exciting and advanced user experience with the desktop IP Phone. The multi-line IP Phone 2007 comes standard with a large 5.7" diagonal, color touchscreen, enabling the presentation of a wide array of information and applications to both customers and colleagues. Leveraging services provided by the Nortel Application Gateway 2000, the IP Phone 2007 display can present multimedia content to enhance the user communications experience, including visual voicemail, broadcast alerts such as company news and emergency notifications, promotion of guest services within hospitality environments for revenue generation as well as other customized applications desired by the organization. The result is a desktop IP Phone that becomes a strategic asset — driving personal productivity, enhanced customer service and increased revenue opportunities for your business.

Key features:

› Advanced multi-line IP phone with support of twelve[1] soft programmable line/feature keys and four context-sensitive soft label keys

› Large 5.7" diagonal, 320x240 pixel, fully backlit, QVGA Color Super-twisted Nematic[2] (CSTN) touchscreen LCD which supports presentation of multimedia content

› Nine fixed keys including Release, Hold, Volume Up/Down, Mute, Handsfree, Headset, Quit and Copy along with seven soft keys including Inbox, Directory, Outbox, Expand, Services, Quit and Copy

› Integrated USB port for standard USB Mouse, Keyboard and Powered Hub support plus four-way navigation cluster provides superior navigational experience when engaged with multimedia content

› Integrated IEEE 10/100 switch with both LAN and PC ports supports direction of collocated PC traffic through the IP Phone, reducing costs with single cable drop infrastructure to the desktop

› Secured communications with standards-based signaling and media-path encryption along with device-authentication for enhanced network security

› High-quality two-way audio speaker with convenient Handsfree button

› Integrated Headset jack with convenient on/off button

› Visual Alerting/Message Waiting Indication LED

› Supports 802.3af Power over Ethernet or local AC power option

› Dynamic IP addressing with a standard DHCP server offers a flexible, simplified solution for handling adds, moves and changes — reducing management costs

› Supports Unicode for expanded language and complex font presentation[3]

› Added convenience and time savings with field-upgradeable firmware using Trivial File Transfer Protocol (TFTP) or UNIStim File Transfer Protocol (UFTP)[4]

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[1] IP Phone 2007 supports six soft programmable line feature keys as standard and up to twelve on Nortel Communication Servers which support the "shift" function.

[2] Quarter Video Graphics Array (QVGA) Super-twisted Nematic technology enhances a user's quality of experience with improved viewing angles and display screen contrast.

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

[4] UNIStim File Transfer Protocol (UFTP) is Nortel Communication Server dependent. Consult server documentation for support details.

Technical specifications

Nortel platform support

- Nortel Communication Server 1000, 2000 and 2100
- Meridian 1
- Business Communications Manager 50/200/400
- Multimedia Communication Server 5100
- Multimedia Communication Server 5200
- Application Server 5200
- Media Gateway 1000B Expansion Chassis
- Survivable Remote Gateway (SRG) 50/200/400

Phone features

- 5.7" (14.5 cm) diagonal, 320 x 240 pixel fully backlit QVGA Color Super Twisted Nematic LCD with Touchscreen
- Configurable backlight display timer with 5, 10, 15, 20 minute, 1 hour and 2 hour settings extends display life; "Sleep Never" setting for always-on 24 x 7 environments
- Six to twelve soft programmable line/feature keys[5]
- Four context-sensitive soft label keys
- Nine fixed keys including Release, Hold, Volume Up/Down, Mute, Headset, Handsfree, Quit and Copy
- Integrated touchscreen, on-screen popup keyboard, USB port for standard USB Mouse, Keyboard and Powered Hubs along with four-way navigation cluster offers flexible and enhanced navigation of and data entry into menus and multimedia content
- High-quality two-way audio speaker with convenient Handsfree access
- Amplified Headset port supports direct connection to third-party headsets
- Integrated Stylus "Valet" for convenient access to and storage of IP Phone 2007 styli (one stylus comes standard with the phone)
- Supports External Application Servers (XAS) such as the Nortel Application Gateway 2000 for graphical presentation of multimedia application content
- Supports Unicode for expanded language and complex font presentation[6]
- English Text and Icon keycap models for global deployments
- Desktop or wall mountable

Color

- Charcoal with Silver Metallic bezel finish

Connectivity/data rates

- Integrated autosensing IEEE 10/100 Ethernet Switch with LAN and PC ports directly connects to a network and supports a collocated PC
- Ability to manually disable PC port
- Ability to manually configure both 10 and 100 Mbps speeds when used with legacy Ethernet Switches that do not autosense

Dimensions and weight

- Dimensions: (W x D x H on footstand) 11.62 in x 6.77 in x 6.69 in/295mm x 172mm x 170mm
- Weight: 3.0 lbs/1.75 kg

Power

- Supports IEEE 802.3af Power over Ethernet, Nortel and selected third-party pre-standard[7]
- AC power: Localized power adapter delivering 48V DC @ 520mA
- Power dissipation at 100 Mbps: IEEE Class 3. Idle – 8 watts, Maximum – 13 watts
- Integrated USB port – 100mA; 500mA when supported with powered hub

Administration and Security

- Full, Partial and Static Dynamic Host Control Protocol (DHCP) address assignment
- Support for network discovery with 802.1ab Link Layer Discovery Protocol (LLDP)
- Device authentication with support of 802.1x and Extensible Authentication Protocol (EAP) within MD-5 enabled networks
- Signaling encryption with support of the Advanced Encryption Standard (AES) – 128 bit [8]
- Media path encryption with support of Secure Real-time Protocol (sRTP) Pre-shared Key and Public Key Infrastructure (PKI) [9]
- Supports Proactive Voice Quality Management (PVQM) for enhanced administration and diagnostics

Audio Quality of Service

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

Operating temperature

- 40°F to 104°F/+5°C to 40°C

Relative humidity

- 5% to 95% (non-condensing)

Storage temperature

- -40° to 158°F/-40°C to 70°C

EMC

- United States: FCC 47 CFR Part 15 Class B
- Canada: ICES-003 Class B
- Australia/New Zealand:
  – AS/NZS 3548 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 22.2 No. 60950-1-03
- IEC 60950-1
- Australia/New Zealand: AS/NZS 60950.1: 2003
- Mexico NOM approvals
- European Community 60950-1+A11

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 CE Marking Requirements: This device complies with the essential requirements and other relevant provisions of Directive 1999/5/EC.
- American Disabilities Act (ADA) compliant dialpad

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[5] Twelve programmable line/feature keys requires support of "Shift" function which is Nortel Communication Server dependent. Consult server documentation for support details.

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

[7] Third-party pre-standard switches interoperability tested include Cisco 4503 CATOS 7.69(3), 6503 CATOS 8.3(2), 3550 IOS 12.1(13).

[8] Requires Nortel Secure Multimedia Controller 2450 for Nortel Communication Server 1000 and Multimedia Communication Server 5100.

[9] Public Key Infrastructure is Nortel Communication Server dependent.

Nortel is a recognized leader in delivering communications capabilities that make the promise of Business Made Simple a reality for our customers. Our next-generation technologies, for both service provider and enterprise networks, support multimedia and business-critical applications. Nortel's technologies are designed to help eliminate today's barriers to efficiency, speed and performance by simplifying networks and connecting people to the information they need, when they need it. Nortel does business in more than 150 countries around the world. 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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