# NORTEL

## Technical Specifications
## Nortel IP Phone 2001
Standard-level IP Phone delivers highly cost-effective solution to the desktop

*The Nortel IP Phone 2001 is an entry level, single-line IP Phone, designed to meet the needs of general usage environments and public areas such as school rooms, main lobbies, hallways and break rooms.*

*The Nortel IP Phone 2001 delivers an economical entry to Nortel's IP Telephony, without sacrificing audio or feature performance. With support for standards-based Power over Ethernet (PoE), the need to locally power the IP Phone 2001 is avoided, resulting in reduced infra-*

*structure costs. Resiliency is enhanced as centralized battery backup services at the wiring closet can be leveraged, powering the phone in the event of power outages.*

*The Nortel IP Phone 2001 is fully compatible with most Nortel Communication Servers, delivering both high-quality audio performance and user experience, while taking advantage of an extensive array of business telephony features and capabilities to meet the communication demands of the business.*

### Key features and benefits include:

> Single-line entry-level IP Phone and its small desktop footprint makes it ideally suited to locations with limited desktop space

> High-quality 3x24 LCD delivers enhanced user experience with an easy-to-read display

> Fixed keys include Line, Goodbye, Hold, Volume Bar, Services and Messaging along with up and down navigation arrows

**IP Phone 2001**

- > Four context-sensitive soft-label keys provide intuitive interface for fast access to menus and system features

- > Integrated high-quality audio speaker-phones supports "Listen Mode" for on-hook dialing

- > Visual Ringing Alerter/Message Waiting LED

- > Supports third-party headsets via third-party headset adapters

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

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

- > Tight linkage with Nortel Communication Servers offers rich suite of reliable, quality-based telephony communications features

- > Added convenience and time savings with field-upgradable firmware using Trivial File Transfer Protocol (TFTP) or for sites requiring enhanced secure firmware upgrades: UNIStim File Transfer Protocol (UFTP)[1]

## Technical specifications

### Platform support

- • Nortel Communication Servers 1000, 2000 and 2100

- • Meridian 1[2]

- • Business Communications Manager (BCM) 50/200/400

- • Multimedia Communication Server 5100/5200

- • Media Gateway 1000B Expansion Chassis

- • Survivable Remote Gateway (SRG)/(SRG 50)

### Phone features

- • Single line set with four context-sensitive soft label keys[3]

- • 3x24 character LCD display

- • Seven fixed keys including Volume Bar (Up/Down), Line, Goodbye, Hold, Messages, Services

- • Up and down navigation arrows for content as presented on LCD display

- • Integrated high-quality audio "Listen Mode" Speakerphone for on-hook dialing support

- • Text and Icon keycap models for global deployments

- • Desk and wall mount options

- • Third-party headset/headset adapter support

### Color

- • Charcoal with silver-metallic bezel

### Dimensions and weight

- • Dimensions (WxDxH): 7.48 in x 6.49 in x 6.61 in/ 190mm x 165mm x 168mm on footstand

- • Weight: 1.72lbs/.78kg

### Power

- • Supports IEEE 802.3af Power over Ethernet, Nortel and selected third-party pre-standard[4]

- • AC power: Localized power adapter delivering 48V DC @ 520mA

- • Power dissipation: 3.2 watts idle, 4.2 maximum
  – IEEE Power Class 2

### Administration and security

- • 802.1x and Extensible Authentication Protocol (EAP-MD5) for device authentication

- • Static and Dynamic Host Control Protocol (DHCP) address assignment

- • 802.1ab Link Discovery Protocol[5]

- • Signaling Security with support for the 128K Advanced Encryption Standard (AES)[6]

- • Secure Real-Time Protocol (SRTP) standard (pre-shared key)[5]

### Protocols

- • Call Control Protocol: UNIStim subset over UDP with reliability layer

- • E.164 dialing support

### Codecs/Quality of Service

- • G.711 a- and/or μ-law, G.723.1 and G.729a and Annex B

- • 802.1p/Q, DiffServ

### 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°F to 158°F

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[1] UNIStim File Transfer Protocol (UFTP) is Nortel Communication Server dependent.

[2] Requires Signaling Server or Voice Gateway Media Card for support.

[3] Context sensitive soft keys are Nortel Communication Server/Release dependent.

[4] Third-party pre-standard switch support includes Cisco 4503 CATOS 7.6(3), 6503 CATOS 8.3(2), 3550 IOS 12.1(13).

[5] Available via firmware update commencing Q3 2006.

[6] Requires Secure Multimedia Controller 2450 (SMC 2450) for support on Communication Server 1000 and Multimedia Communication Server 5100.

**EMC**

**EMI/RFI**

- United States: FCC Part 15, Class B
- Canada: ICES-003, Class B
- Australia/New Zealand: AS/NZS 3548, Class B
- European community:
    – EN55022, Class B
    – EN 55024
- EN 61000-3-2
- EN 61000-3-3
- VCCI

**Safety**

- United States: UL 60950
- Canada: CSA 22.2 No. 60950
- IEC 60950-1
- Australia/New Zealand: AS/NZS 60950-1
- European Community: EN 60950-1

**Other**

- FCC Part 68 HAC
- IC CS-03 HAC
- Australia AS/ACIF S004
- New Zealand PTC 220
- Reduction of Hazardous Substances (RoHS) compliant[7]
- American Disabilities Act (ADA) compliant dialpad

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[7] Product Engineering Codes (PEC) with an E5 or E6 appendage have been deemed RoHS compliant in response to the European Union Environmental Directive.

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