



## Technical Specification

### Nortel IP Phone 2001

Standard-level IP Phone delivers highly cost-effective solution to the desktop

*The Nortel IP Phone 2001 is a standard 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 infrastructure 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, 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 with small desktop footprint makes it ideally suited to locations with limited desktop space
- › High-quality 3 line x 24 character 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
- › Four context-sensitive soft-label keys provide intuitive interface for fast access to menus and system features
- › Integrated high-quality audio speaker supports "Listen Mode" for on-hook dialing support

- › Visual Ringing Alerter/Message Waiting LED
- › 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
- › Secured communications with standards-based user authentication, signaling and media-path encryption
- › 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)<sup>1</sup>

<sup>1</sup> UNIStim File Transfer Protocol (UFTP) is Nortel Communication Server dependent.



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### Platform support

- Nortel Communication Server 1000, 2000 and 2100
- Meridian 1<sup>2</sup>
- Business Communications Manager (BCM) 50/200/400
- Media Gateway 1000B Expansion Chassis
- Survivable Remote Gateway (SRG)/50/200/400

### Phone features

- Four context-sensitive soft label keys
- 3 line x 24 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” Speaker for on-hook dialing support
- Text and Icon keycap models for global deployments
- Desk and wall mount options

### User selectable ring tones

#### IP Call Recording

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

#### Color

- Charcoal with silver-metallic bezel finish

#### 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/.78g

### Power

- Supports IEEE 802.3af Power over Ethernet, Nortel and selected third-party pre-standard<sup>3</sup>
- 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 authentication
- Static, Partial and Full Dynamic Host Control Protocol (DHCP) address assignment (Full DHCP factory default)
- Signaling encryption with support for the 128-bit Advanced Encryption Standard (AES)<sup>4</sup>
- 802.1ab Link Layer Discovery Protocol (LLDP) for network discovery and inventory management
- RFC 3711 compliant Secure Real-Time Protocol (sRTP) Pre-shared Key and Public Key Infrastructure (PKI)<sup>5</sup>

### Protocols

- Call Control Protocol: UNIStim subset over UDP with reliability layer
- E.164 dialing support

### Audio Quality of Service

- G.711 a-law and  $\mu$ -law, G.723.1 and G.729a and Annex B
- 802.1p/Q, DiffServ
- 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°F to 158°F

### EMC

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

### Safety

- United States: UL 60950-1
- Canada: CSA No. 60950-1-03
- IEC 60950-1
- Australia/New Zealand: AS/NZS 60950.1:2003
- European Community: EN 60950-1 +A11
- Mexico NOM approvals

### Other

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

<sup>2</sup> Requires Signaling Server or Voice Gateway Media Card for support

<sup>3</sup> Third-party pre-standard switch support includes Cisco 4503 CATOS 7.6(3), 6503 CATOS 8.3(2), 3550 IOS 12.1(13).

<sup>4</sup> Requires Secure Multimedia Controller 2450 (SMC 2450) for support on Communication Server 1000 and Multimedia Communication Server 5100.

<sup>5</sup> Public Key Infrastructure (PKI) is Nortel Communication Server dependent



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