



## Technical Specification

### Nortel Expansion Module for IP Phone 1100 Series

Delivering investment protection with scalability

*The Nortel Expansion Module for IP Phone 1100 Series is an exciting addition to the award-winning IP Phone 1100 Series portfolio. An accessory available to selected models within the IP Phone 1100 Series of desksets, the Expansion Module for IP Phone 1100 Series delivers true investment protection with scalability at the desktop. Each Expansion Module supports an additional 18 line/programmable feature keys. Up to three Expansion Modules can be supported when attached to an IP Phone 1120E, IP Phone 1140E or IP Phone 1150E deskset.*

With the Expansion Module for IP Phone 1100 Series, the ability to add line/programmable feature appearances, whenever the business needs, offers investment protection assurance when purchasing IP Phone 1100 Series desksets. Operating costs are reduced,

with preservation of the software user licenses that enable the IP Phone 1100 Series desksets. Licenses can be used more efficiently, reserved for support of “new desktops” as the business grows.

The Expansion Module for IP Phone 1100 Series also comes standard with a high-resolution, pixel-based, graphical, grayscale backlit display. Combined with a continuous-angle adjustable stand, which is used to match the angle of the IP Phone, the result is delivery of a superior user experience with quick-and-easy access to programmable features and line indication.

The Expansion Module for IP Phone 1100 Series, while integrating a power display and adding scalability, retains the sleek ergonomic design of the IP Phone 1100 Series. The module is thoughtfully designed for today's space-limited desktops.

With so many advanced features to offer, the Expansion Module for IP Phone 1100 Series is the right communications solution to enhance the competitiveness of your business — for both today and tomorrow.

#### Key features and benefits include:

- › Line/programmable feature expansion for IP Phone 1120E, IP Phone 1140E and IP Phone 1150E reduces costs by eliminating the need for additional IP Phones at the same desktop
- › Delivers 18 additional line/programmable feature keys per module, extending desktop investment in IP Phone 1100 Series desksets with added scalability
- › Up to three Expansion Modules per IP Phone 1100 Series deskset
- › High-resolution, pixel-based, graphical grayscale display provides foundation for presentation of enhanced graphical content<sup>1</sup>



Expansion Module for IP Phone 1100 Series with IP Phone 1140E



<sup>1</sup> Presentation of graphical content on the Expansion Module display requires additional Nortel Communication Server and client firmware development and is not available at GA.

- > 802.3af Power over Ethernet or local AC power options deliver maximum customer flexibility in deployment
- > Optional backlighting of the display offers enhanced user experience<sup>2</sup>
- > Wall mountable using standard jack pins or mounting screws
- > Tight integration with Nortel Communication Server 1000 feature sets for rich and reliable service
- > Firmware download support via Trivial File Transfer Protocol (TFTP) or UNISTim File Transfer Protocol (UFTP)<sup>3</sup>
- > Leverages the award-winning sleek ergonomic design of the IP Phone 1100 Series for reduced desktop footprint

## Technical specifications

### Servers supported

- Nortel Communication Server 1000 Release 4.5

### IP Phones supported

- Nortel IP Phone 1120E, IP Phone 1140E and IP Phone 1150E

### Display type

- High-resolution, graphical, Super Twisted Nematic (STN), eight-level grayscale with anti-glare coating

### Display size

- 118 x 414 pixel (W x H)

### Backlighting

- Optional. Requires C 500mA power supply and regional power cord to support local power supply/power cord to support.

### Number of appearances

- 18 appearances per module as standard
- 36 appearances (single module configuration) with shift feature<sup>4</sup>

### Maximum number of modules

- 3 per IP Phone 1120E, IP Phone 1140E or IP Phone 1150E deployed

### Adjustable contrast

### Continuous-angle stand

### Power requirements

- 3.3v per Expansion Module (exclusive of backlight)
- Integrated backlight requires 90-260 VAC 50-60Hz in, 48 VDC 500mA power supply with regional power cord for support (orderable separately)

### Power options

- 802.3af Power over Ethernet or local AC power option via 90-260 VAC 50-60Hz in, 48 VDC 500mA power supply

### Module dimensions (WxHxD)

- *Minus 5 degree position* (Wallmount): 4.84 in x 7.94 in x 3.0 in/122.8mm x 201.7mm x 76.1mm
- *+32.5 degree position*: 4.84 in x 6.22 in x 6.90 in/122.8mm x 158.1 mm x 175.4mm
- *+55 degree position*: 4.84 in x 7.79 in x 5.95 in/122.8mm x 197.9 mm x 151.0 mm

## Regulatory and safety

### EMC

- United States: FCC CFR 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
  - EN 55024
  - EN 61000-3-2
  - EN 61000-3-3
- Japan: VCCI
- Korea: MIC Approval (anticipated Q1 2007)

### Safety

- United States: UL 60950-1 1st Edition
- Canada: CSA 60950-1-03
- European Community: EN 60950-1 + A11
- Australia/New Zealand: AS/NZS 60950.1: 2003
- IEC 60950-1

### Other

- Complies with CE marking requirements
- EU Countries: This device complies with the essential requirements and other relevant provisions of Directive 1999/5/EC
- Compliant to Reduction of Hazardous Substances (RoHS) as part of the European Union Environmental Directive (EUED)

Expansion Module maximum number of appearances by IP Phone type — Nortel Communication Server 1000

IP Phone	IP Phone only. No Exp. Modules	IP Phone w/Shift Only	Phone+ One Exp. Module – No Shift	Phone+ One Exp. Module w/Shift	Phone+ Two Exp. Modules – No Shift	Phone+ Two Exp. Modules w/Shift	Phone+ Three Exp. Modules – No Shift	Phone+ Three Exp. Modules w/Shift
1110 <sup>5</sup>	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1120E <sup>6</sup>	4	N/A	4+18=22	N/A	4+36=40	N/A	4+54=58	N/A
1140E	6	12	6+18=24	12+36=48	6+36=42	12+36=48	6+54=60	12+54=66
1150E	6	12	6+18=24	12+36=48	6+36=42	12+36=48	6+54=60	12+54=66

<sup>2</sup> Optional backlighting requires one 90-260 VAC, 50-60Hz in, 48 VDC 500mA universal power supply. The power supply supports up to three Expansion Modules, per IP Phone, and is the very same adapter used for local powering of the IP Phone. A regional power cord to support the power supply must also be ordered separately.

<sup>3</sup> UFTP is Nortel Communication Server dependent and is supported on Nortel Communication Server 1000 Release 4.5 and later.

<sup>4</sup> Shift feature is supported on IP Phone 1140E and IP Phone 1150E and Nortel Communication Server 1000 Release 4.5.

<sup>5</sup> IP Phone 1110 does not include an AEM port and thus does not support the Expansion Module for IP Phone 1100 Series.

<sup>6</sup> IP Phone 1120E does not support the Shift feature on either the IP Phone or Expansion Module.

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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