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NØRTEL

Technical Specifications Nortel IP Phone 1535

IP videophone with innovative new communications features for a personal video endpoint

Nortel's IP Phone 1535 is a standardsbased Session Initiation Protocol (SIP) deskset for enterprises or organizations looking for a cost-effective personal video endpoint. Key features include an integrated color video camera coupled with a high-resolution, pixel-based, color display.

Incorporating a number of advanced communication capabilities, the IP Phone 1535 includes an integrated web browser, a POP3-based or IMAP-based e-mail client, and supports personalization such as customized ringtones and backgrounds.

The IP Phone 1535 is ideal for environments where a desktop or laptop PC may not be available or suitable, yet IP telephony and video conferencing is desired. The IP Phone 1535 may also provide benefit to users requiring a simplified always-on operation, flexible deployment with Wi-Fi connectivity, and casual web browsing or e-mail access.



Nortel IP Phone 1535

Key features and benefits include:

- > Featured SIP-based videophone (single user login) with an advanced user interface featuring dedicated video function keys to simplify the interactive experience
- > Eight dedicated telephony-related icon-labeled keys (Send/Handsfree, Goodbye/Release, Video Start, Video Stop, Record, Video Mode, Favorites, Messages) and two context-sensitive soft-label keys for item selection
- > Enhanced navigation/input options with four-way navigation cluster for menu operations and two key "mouse" click (right/left) for web-browsing

- Integrated multimedia for simple, easy-to-use video conferencing, personal audio recorder (up to 20 second recordings), still image capture (high/low resolution with camera timer) and video capture (up to 20 second recordings)
- Integrated applications including a web browser, e-mail browser (for user to view inbox/outbox or create/send e-mail messages), calendar with alarms, Video Supervision for remote video monitoring and galleries (image, sound and video libraries)
- "T9" (Text on 9 keys) dialpad support for predictive text entry¹

Enhanced Text Entry capabilities available for English, French, German, Portuguese and Spanish languages



- Integrated Directory/Phonebook for up to 300 contacts (stored in the local directory/phonebook)
- Call history for the last 20 items for Missed, Received and Dialed calls
- > Customized Personalization Options including ringtone support (select from up to 50 local Polyphonic Ringtones), menu color and background image (for idle screen)
- Support for Picture Caller ID² and enhanced display name support (for Caller ID and Call Logs)
- > Video standards interoperability support with Video Fast Update (for multi-party video conferencing server environments), H.264 SDP negotiation/interoperability (RFC3984), and interoperability with leading thirdparty H.263/H.264 SIP video conferencing endpoints and conferencing systems³
- > Memory Card slots for expandability and data input/storage with Subscriber Identity Module (SIM) Reader Slot (used to copy user directory/phonebook information from a SIM card) and Secure Digital (SD)/MultiMedia Card (MMC) slot⁴ (used for external storage and uploading of images or sounds)
- > Flexible connectivity options with traditional LAN wired Ethernet (10/100 Base-T Fast Ethernet) or Wireless LAN access with an integrated IEEE 802.11b/g (Wi-Fi) radio
- ² Supported with MCS 5100 Rls 3.5 and 4.0 systems
- ³ Includes interoperability with the TANDBERG Media Processing System (MPS) and MXP Video Conferencing Systems Family
- ⁴ Support for up to 1GB SD/MMC card size
- ⁵ Planned general availability December 2007

Technical specifications

Platform support

- Nortel Multimedia Communication Server 5100 Rls 3.5 and 4.0
- Nortel Communication Server 2000⁵ Rls SN09U and SN10

Display

- High resolution, graphical, fully-backlit, 16-bit color (65,535 colors) Liquid Crystal Display (LCD) using TFT (Thin Film Transistor) technology
 - Quarter Video Graphics Array (QVGA) Resolution
 - Approximately 3.5" / 89mm diagonal
- 2.80" x 2.09" / 71mm x 53mm (W x H)
- -320 pixels x 240 pixels (W x H)
- Configurable backlight timer extends the quality of the display experience with a user-defined time setting (ten seconds to one hour)

Camera

- Image sensor: 1/4.5-inch Complementary Metal-Oxide Semiconductor (CMOS)
- Pixel resolution: 300K VGA (Video Graphics Array)
- Captures still (JPG format) or video images (up to 15fps)

Processor and memory

- CPU: Intel PXA 270 processor @ 416 MHz
- SDRAM: 64 MB (Synchronous Dynamic Random Access Memory)
- Flash: 128 MB (NAND Memory)

IP Phone footstand/display adjustment

- Desktop footstand attachment (optional) raises the IP phone to an optimal angle for video camera usage
- Desktop viewing adjustments with full range tilt display (0 to 60 degrees)

Fixed and soft label keys

- Eight Telephony-related keys (Send/Handsfree, Goodbye/Release, Video Start, Video Stop, Record, Video Mode, Favorites, Messages)
- Two Context-sensitive soft keys

Navigation cluster

• Four-way navigation cluster (left, right, up, down arrows) plus right/left click keys (for web browsing)



IP Phone 1535 Main Menu

- Messages Access to e-mail options and related account configuration
- Call History Access to missed, dialed (outgoing) and received (incoming) calls history
- Services Access to web browser, voice mail and video supervision (remote monitoring)
- Images & Sounds Access to the multimedia tools including image, audio and video galleries
- Settings Access to configuration parameters for connection profile, audio, video, phone, VoIP and system
- Organizer Access to IP Phone 1535 local phonebook and calendar/alarm

Enhanced text entry capabilities

• "T9" (Text on 9 keys) dialpad support for predictive English, French, German, Portuguese or Spanish text entry

Card slots

- Subscriber Identity Module (SIM) Reader Slot
- Secure Digital (SD) / MultiMedia Card (MMC) slot for external device storage (Support for up to 1GB SD/MMC card size)

Administration

- Static and Dynamic Host Control Protocol (DHCP factory default)
- File Transfer Protocol (FTP)

Dimensions and weight (approximate)

- Size (W x D x H)
 - 7.48in x 4.88in x 7.48in / 190mm x 124mm x 190mm - without desktop footstand (Display fully raised – 60 degrees)
 - 7.48in x 6.01in x 7.76in / 190mm x 156mm x 197mm - with desktop footstand (Display fully raised – 60 degrees)

• Weight (phone, desktop footstand, handset and handset cord)

- 2.06 lbs / 0.94kg

Color

• Silver metallic finish

Connectivity/data rates

- Wired connection
 - Integrated 10/100 Base-T Fast Ethernet (auto-negotiation)
- Wireless connection
 - Integrated IEEE 802.11b/g Wi-Fi radio with Wired Equivalent Privacy (WEP), Wi-Fi Protected Access
 (WPA), Wi-Fi Protected Access - Pre-Shared Key (WPA-PSK) and Wi-Fi Protected Access 2 – Pre-Shared Key (WPA2-PSK) support

Power

- Universal AC power supply input: 100V-240V AC, 50-60Hz at 0.22A delivering 5V DC at 3A
- Country-specific power cord with IEC-620 connector

Note: Remote powering of the IP Phone 1535 via IEEE 802.3af Power over Ethernet (PoE) is not supported.

Protocol support

- Transport:
- User Datagram Protocol (UDP) -RFC 768

- Transmission Control Protocol (TCP)- RFC 793
- Simple Traversal of UDP through NAT (STUN) - RFC 3489
- TCP/IP:
 - Dynamic Host Control Protocol (DHCP) - RFC 2131/RFC 2132
 - Domain Name System (DNS) RFC 1034 / RFC 1035
 - Hypertext Transfer Protocol (HTTP) -RFC 2616
 - File Transfer Protocol (FTP) RFC 959
 - Trivial File Transfer Protocol (TFTP) -RFC 783
- Signaling:
 - Session Initiation Protocol (SIP) -RFC 3261
 - Session Description Protocol (SDP) -RFC 2327
- Dual-Tone Multifrequency (DTMF)
 Digits Telephony Tones & Signals RFC 2833
- Voice / Video:
- Real-time Transport Protocol (RTP) -RFC 1889
- Real-time Transport Control Protocol (RTCP) - RFC 1890
- RTP Payload Format for H.264 Video- RFC 3984

- E-mail:
 - Simple Mail Transfer Protocol (SMTP) - RFC 821
 - Post Office Protocol Version 3 (POP3) - RFC 1939
 - Internet Message Access Protocol (IMAP) - partial support

Audio and video quality of service

- Audio:
 - G.711 u-law, G.711 a-law, G.723,
 G.729 and Adaptive Multi-Rate Narrow-Band (AMR-NB)
- Video:
 - H.263 (RFC 2190) and H.264
 - QCIF (Quarter Common Intermediate Format) video formats

File format support

- Image file formats
 - JPG (Joint Photographic Experts Group) - JFIF:1.01
 - PNG (Portable Network Graphics) -PNG version 1.2
 - GIF (Graphics Interchange Format) GIF87a, GIF89 (Does not support animated gif)
- Audio file formats
 - MIDI (Musical Instrument Digital Interface) - Standard MIDI Files 1.0



- WAV (Waveform audio format) -CCITT u-law format, 8000Hz, 16bit Sampling, 1998 Windows PCM format, 8000Hz, 16bit Sampling
- IMY (iMelody Ringtone Format) iMelody version v1.0, v1.1 , v1.2
- Video file formats
 - 3GP (Third Generation Partnership Project) movie file format
 - 3GPP (Third Generation Partnership Project) TS.26.140 version 6 format

Menu language support

- English (US)
- French (Canadian)
- Spanish (LA)
- Korean
- Portuguese
- German

Operating temperature

• +0°C to +40°C / +32°F to +104°F

Relative humidity

• 5% to 95% (non-condensing)

Storage temperature

• -20°C to +65°C / -4°F to +149°F

EMC

- United States: FCC CFR 47 Part 15 Class B
- Canada: ICES-003 Class B
- European Union:
 - EN 55022:1998 + A1 & A2 (Class B)
 - EN 55024:1998 + A1 & A2
- EN 61000-3-2
- EN 61000-3-3
- China CCC
- Brazil Anatel Requirements
- Mexico (COFETEL)

Safety

- United States: UL 60950-1 1st Edition
- Canada: CSA 60950-1-03
- European Union: EN 60950-1
- International: IEC 60950-1
- China CCC
- Mexico NOM Approvals

Wireless regulatory identification/ compliance (for Wi-Fi radio)

- United States: FCC Part 15 Wireless Certification
 - FCC ID: AB6IP1535
- FCC Registration No.: US:AB6IP16BIP1535

- Canada: IC RSS 210 Wireless Certification
 - Canada IC No.: IC:332E-IP1535
- European Union:
- EN 300 328 V1.6.1
- EN 301 489-1 V1.6.1
- EN 301 489-17 V1.2.1
- China CCC
- Brazil Anatel Requirements
- Mexico (COFETEL)

US/Canada/EU Countries

- United States/Canada: Hearing Aid Compatibility (HAC) as per FCC Part 68 and Industry Canada CS-03 Part V
- Compliant at general availability to the Reduction of Hazardous Substances -RoHS (6 of 6) requirement as part of the European Union Environmental Directive (EUED)
- 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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