



DATA SHEET

Polycom® SoundPoint® IP 650

High performance IP phone with Polycom® HD Voice™

Delivering revolutionary voice quality, an advanced feature set, and the expandability to support SoundPoint IP Expansion Modules

Designed to appeal to both executive users who require advanced features and applications, and telephone attendants who need multiple line support, the Polycom® SoundPoint® IP 650 sets the standard for high-performance IP phones.

Revolutionary voice quality

The SoundPoint IP 650 is the first IP phone to use Polycom's revolutionary HD Voice technology to bring life-like richness and clarity to voice communications. Polycom HD Voice incorporates wideband audio for over twice the voice clarity, Polycom® Acoustic Clarity® Technology 2, as well as best-in-class system design to deliver unprecedented voice quality.

Advanced features and applications²

The phone supports Microsoft® Lync® for telephony and presence, and interoperates with Microsoft® Lync® Server 2013. The SoundPoint IP 650 also features a USB port for software applications.

Enhanced call handling capabilities

The SoundPoint IP 650 accommodates 6 lines in standalone mode, and 12 lines as an attendant console, when equipped with SoundPoint IP Expansion Modules. The phone supports shared call/bridged line appearance, an essential feature for effective phone interaction between executives and their assistants. The phone's busy lamp field (BLF) functionality enables phone attendants to monitor the on-hook/off-hook status of key contacts, and dispatch incoming calls for those contacts more efficiently.

Expandability

When equipped with up to three Polycom Expansion Modules, the SoundPoint IP 650 delivers the advanced call handling capabilities and enhanced user interface of a high-performance attendant console. Designed to improve productivity of telephone attendants, the SoundPoint IP attendant console allows effective and efficient management and monitoring of up to 24 simultaneous calls on up to 12 lines.

Intuitive user interface

The SoundPoint IP 650 delivers all of its capabilities through an intuitive user interface, featuring a backlit 320 x 160 graphical grayscale LCD display, easy-to-navigate menu, and a combination of 26 dedicated hard keys and 4 context-sensitive soft keys for easy access to essential telephony features.

HDvoice



Benefits

- **Revolutionary voice quality**— Polycom® HD Voice™ enables life-like interactivity, richness, and clarity of voice communications
- **Advanced features & applications**
 - USB port for future applications
 - XHTML microbrowser
 - Backlit 320 x 160 graphical grayscale LCD
 - Integrated PoE support
 - Qualified for Microsoft® Lync® 2013
- **Advanced call handling capabilities**
 - Six lines (standalone)/12 lines with Expansion Module(s)
 - Shared call/bridged line appearance
 - Busy lamp field (BLF)
- **Expandability**—Supports up to three SoundPoint IP Expansion Modules for an attendant console application
- **Proven**—Polycom is the leading independent supplier of standards-based IP phones that are fully interoperable with key IP PBX and Softswitch platforms

Efficient installation and provisioning

Designed to make installation, configuration, and upgrade as simple and efficient as possible, the SoundPoint IP 650 boasts a two-port Ethernet switch and integrated Power over Ethernet

circuitry. The SoundPoint IP 650 can be centrally configured and upgraded in the field from an FTP, TFTP, HTTP, or HTTPS server and supports provisioning server redundancy.

Product specifications

Lines (direct numbers)

- Up to 6 lines (standalone mode)
- Up to 24 concurrent calls

Expansion module mode

- Up to 48 line keys/appearances
- Up to 47 remote party BLF line monitors
- Up to 34 SIP registrations

Polycom® SoundPoint® IP Expansion Module Support

- Supports up to three Expansion Modules

Display

- 320 x 160 backlit grayscale graphical LCD
- White LED backlight with custom intensity control
- Message Waiting Indicator (MWI) LED

Feature keys

- 4 context-sensitive “soft” keys
- 26 dedicated “hard” keys
 - 6 line keys with bi-color (red/green) LED
 - 8 feature keys
 - 6 display/menu navigation keys
 - Illuminated mute key
 - Illuminated headset key
 - Illuminated hands-free speakerphone key
 - Dedicated hold key

Headset and hearing aid compatibility

- Dedicated RJ-9 headset port
 - Amplified headsets are recommended
- Compliant with ADA Section 508 Recommendations: Subpart B 1194.23 (all)
- Hearing Aid Compatible (HAC) handset for magnetic coupling to approved HAC hearing aids
- Compatible with commercially-available TTY adapter equipment

Audio features

- Polycom HD Voice technology delivers life-like voice quality for each audio path—the handset, the hands-free speakerphone, and the optional headset¹
- Full-duplex hands-free speakerphone
 - Type 1 compliant with IEEE 1329 full duplex standards

- Frequency response—150 Hz–7 kHz for handset, headset¹ and hands-free speakerphone modes
- Codecs: G.722 (wideband), G.711 μ A, G.729A (Annex B) and iLBC
- Individual volume settings with visual feedback for each audio path
- Voice activity detection
- Comfort noise fill
- DTMF tone generation/DTMF event RTP payload
- Low-delay audio packet transmission
- Adaptive jitter buffers
- Packet loss concealment
- Acoustic echo cancellation
- Background noise suppression

Call handling features²

- Shared call/bridged line appearance
- Flexible line appearance (one or more line keys can be assigned for each line extension)
- Busy Lamp Field (BLF)
- Distinctive incoming call treatment/call waiting
- Call timer
- Call transfer, hold, divert (forward), pickup
- Called, calling, connected party information
- Local four-way conferencing
- One-touch speed dial, redial
- Call waiting
- Remote missed call notification
- Intercom
- Automatic off-hook call placement
- Do not disturb function

Other features

- Clients Universal Serial Bus (USB)
 - Full Host Controller
 - Compliant with OHCI 1.1 specification
 - Support for Full-speed and Low-speed peripherals
 - Type-A receptacle interface

- Local feature-rich GUI
- Time and date display
- User-configurable contact directory and call history (missed, placed, and received)
- Customizable call progress tones
- Wave file support for call progress tones
- Unicode UTF-8 character support. Multilingual user interface encompassing Chinese, Danish, Dutch, English (Canada/US/UK), French, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Slovenian, Spanish, Swedish

Protocol support

- IETF SIP (RFC 3261 and companion RFCs)

Network and provisioning

- Two-port 10/100 Mbps Ethernet Switch
- Manual or dynamic host configuration protocol (DHCP) network setup
- Time and date synchronization using SNTP
- FTP/TFTP/HTTP/HTTPS⁴ server-based central provisioning for mass deployments
- Provisioning server redundancy supported
- Web portal for individual unit configuration
- QoS Support—IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS, and DSCP
- Network Address Translation (NAT) support—static
- RTCP support (RFC 1889)
- Event logging
- Local digit map
- Hardware diagnostics
- Status and statistics

Security²

- Transport Layer Security (TLS)
- Secure Real-time Transport Protocol (SRTP)
- Shipped with X.509 certificate installed
- Encrypted configuration files
- Digest authentication
- Password login
- Support for URL syntax with password for boot server
- HTTPS secure provisioning
- Support for signed software executables

Power

- Built-in, auto-sensing IEEE 802.3af Power over Ethernet
- External Universal AC Adapter (24V DC)

Approvals

- FCC Part 15 (CFR 47) Class B
- ICES-003 Class B
- EN55022 Class B
- CISPR22 Class B
- AS/NZS CISPR 22 Class B
- VCCI Class B
- EN55024
- EN61000-3-2; EN61000-3-3
- ROHS compliant

Safety

- UL 60950
- CE Mark
- CAN/CSA-C22.2 No. 60950
- EN 60950-1
- IEC 60950-1
- AS/NZS 60950

Operating conditions

- Temperature: 32–104° F (0–40° C)
- Relative Humidity: 5–95%, (non-condensing)

Storage temperature

- -40–160° F (-40–70° C)

SoundPoint IP 650 comes with

- SoundPoint IP 650 console
- Handset with handset cord
- Base stand
- Network (LAN) cable
- Universal power adapter (including country specific cord kit)
- Quick Start Guide

Size (L x W x H x T)

- 10.5 x 6 x 7.5 x 2.5 in (26.5 x 15 x 19 x 6.5 cm)

Part numbers/UPC codes

- 2200-12651-001/610807522959 for NA, TWN
- 2200-12651-002/610807522966 for Japan
- 2200-12651-012/610807522973 for AU, NZ
- 2200-12651-015/610807522980 for UK, HK, Singapore, Malaysia
- 2200-12651-016/610807522997 for Korea
- 2200-12651-022/610807523000 for China
- 2200-12651-122/610807523017 for ROE

Box dimensions/weight

- 12.5 x 13.25 x 3.5 in
- 2045 g (for all countries)

Master carton quantity

- Five

Country of origin

- Thailand

Warranty

- One year

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1. To enjoy the benefits of Polycom HD Voice when using the phone in the headset mode, you must use a wideband headset.
 2. Most software-enabled features and capabilities must be supported by the server. Please contact your IP PBX/Softswitch vendor or service provider for a list of supported features.

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About Polycom

Polycom helps organizations unleash the power of human collaboration. More than 400,000 companies and institutions worldwide defy distance with video, voice and content solutions from Polycom. Polycom and its global partner ecosystem provide flexible collaboration solutions for any environment that deliver the best user experience and unmatched investment protection.

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