

## Polycom SoundPoint IP 650 VoIP Phone (IP650)



Product Name: Polycom SoundPoint IP 650 VoIP Phone (IP650)

Manufacturer: -

Model Number: 2200-12651-025

Please Note: The Polycom SoundPoint IP650 has been discontinued. For an alternative, please see the other Polycom VoIP Phones.

Polycom SoundPoint IP 650 VoIP Phone (IP650)

The Polycom SoundPoint IP 650 VoIP Phone sets the standard for high-performance IP phones. The IP650 is designed to appeal to both executive users who require advanced features and applications and telephone attendants who need multiple line support.

SoundPoint IP 650 Key Features

• Six lines (standalone) / 12 lines (with the SoundPoint IP Expansion Module)

• Polycom HD Voice technology, including support of G.722 wideband codec, Acoustic Clarity Technology 2, and systems design optimized for Polycom HD Voice technology

• Advanced functionality, including shared lines, busy lamp field, presence, and XHTML applications

• Support of up to three SoundPoint IP Expansion Modules

• Backlit 320 x 160-pixel grayscale graphical LCD

• Integrated IEEE 802.3af Power over Ethernet (PoE) support

• USB port for future applications

Revolutionary Voice Quality

The IP 650 VoIP Phone from Polycom SoundPoint 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's patented Acoustic Clarity Technology, as well as best-in-class system design to deliver unprecedented voice quality.

Advanced Features and Applications

The phone supports Microsoft Live Communications Server 2005 for telephony and presence, and interoperates with Microsoft Office Communicator. The Polycom SoundPoint IP 650 VoIP Phone also features a USB port for future applications.

Enhanced Call Handling Capabilities

The Polycom SoundPoint IP 650 VoIP Phone 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.

Expandability

When equipped with up to three Expansion Modules, the Polycom SoundPoint IP 650 VoIP Phone 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 Polycom SoundPoint IP 650 VoIP Phone 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.

Efficient Installation and Provisioning

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

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Note: Please refer to the Polycom VoIP Phone Range Detailed Comparison Table for more information.

Polycom SoundPoint VoIP 650 VoIP Phone Technical Specifications  
Lines (Direct Numbers)

- Up to 6 lines (standalone mode)
- Up to 34 lines with Expansion Module(s)

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

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
- 2 volume control 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 headset
- Full-duplex hands-free speakerphone: Type 1 compliant with IEEE 1329 full duplex standards
- Frequency response - 150Hz - 7kHz for handset, headset and hands-free speakerphone modes
- Codecs: G.722 (wideband), G.711 &micro;/A, and G.729A (Annex B)
- 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

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### Call Handling Features

- 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 three-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

- Integration with Microsoft LCS 2005 for telephone and presence: Compatibility with Microsoft Office Communicator and Windows® Messenger 5.1
- 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 Danish, Dutch, English (Canada/US/UK), French, German, Italian, Norwegian, Russian, 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/HTTPS server-based central provisioning for mass deployments.
- Provisioning server redundancy supported
- Web portal for individual unit configuration
- QoS Support &ndash; IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS, and DSCP
- Network Address Translation (NAT) support &ndash; static
- RTCP support (RFC 1889)
- Event logging
- Local digit map
- Hardware diagnostics

## Polycom SoundPoint IP 650 VoIP Phone (IP650)

• Status and statistics

### Security

- Transport Layer Security (TLS)
- Encrypted configuration files
- Digest authentication
- Password login
- Support for URL syntax with password for boot server address
- HTTPS secure provisioning
- Support for signed software executables

### Power

- Built-in, auto-sensing IEEE 802.3af Power over Ethernet
- External Source 48V DC, optional

### 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: 0 to 40°C (+32 to 104°F)
- Relative Humidity: 5% to 95%, non-condensing

### Storage Temperature

- -40 to +70°C (-40 to +160°F)

### Polycom SoundPoint IP 650 VoIP Phone Comes With:

- Polycom SoundPoint IP 650 VoIP Phone console
- Handset with handset cord
- Base stand
- Network (LAN) cable
- Quick Start Guide
- Product registration card

## Polycom SoundPoint IP 650 VoIP Phone (IP650)

### Size

1½ 10.5 in x 6 in x 7.5 in x 2.5 in  
1½ (26.5 cm x 15 cm x 19 cm x 6.5 cm)

### Weight

1½ 2.75lb (1.26kg)

Connections Illustration

### Please Enquire

Options available for Polycom SoundPoint IP 650 VoIP Phone (IP650) :

#### **Power Supply Required?**

[Require Polycom Power Supply \(+£14.50\)](#), - Not Required -.