

Polycom® IP Telephones

Quick Reference Guide

The Power of a Network. The Simplicity of a Phone.

Why Polycom VoIP?

- Polycom is the *leading independent supplier* of standards-based IP telephones.
- To offer you a *choice of end-to-end, integrated VoIP solutions*, Polycom ensures that your Polycom phones are fully interoperable with leading standards-based IP PBX and Softswitch platforms¹.
- Polycom's *comprehensive product portfolio* encompasses the SoundPoint® IP family of desktop phones, the attendant console based on the SoundPoint IP 601/650 and Expansion Module, and the SoundStation® IP 4000 conference phone.

Features and Benefits

Outstanding Voice Quality



- Polycom's revolutionary HD Voice technology delivers voice communications of life-like interactivity, richness, and clarity*:
 - Exceptional sound quality, echo cancellation, and noise reduction
 - Support of G.722 wideband codec*
 - Interactive two-way conversations that are as natural as being there
 - Polycom full-duplex² speakerphones are compliant with IEEE 1329 standards
- Network-related provisioning for superb voice quality:
 - Quality of Service – IEEE 802.1 p/Q, Layer 3 TOS, and DSCP³
 - Dynamic jitter buffer
 - Sophisticated packet loss concealment algorithms

Enhanced Call Handling, Security, and Advanced Applications^{3, 4}

- Support of up to 24 simultaneous calls on up to 12 lines
- Shared call / bridged line appearance
- Busy Lamp Field (BLF)⁴
- Multiple call- and flexible line appearances
- TLS security³, encrypted configuration files³, HTTPS secure provisioning⁷, support of "signed" software executables⁷, URL syntax for boot server address⁷ and digest authentication
- Microsoft® LCS 2005 interoperability for telephony and presence³
 - Compatibility with Microsoft Office Communicator and Windows® Messenger 5.1 clients

Ease of Use

- Polycom IP phones provide an easy transition from legacy PBX and Key Systems to the world of IP telephony:
 - Intuitive user interface
 - Large, high-quality LCD displays with up to 320x160 pixel resolution
 - A combination of up to 26 dedicated hard keys and up to 4 context-sensitive soft keys for one-touch access to essential features

Efficient Installation, Provisioning, and Upgrades

- Polycom IP phones are designed to make installation, configuration, and upgrades as simple and efficient as possible:
 - Centralized provisioning and upgrades from an FTP, TFTP, HTTP⁷, or HTTPS⁷ server
 - Support of provisioning server redundancy³
 - Manual or DHCP set-up. Web configuration
 - Dual switched 10/100 Mbps Ethernet ports for LAN and PC connection (SoundPoint IP only)
 - Choice of powering options: AC adapter or Power over Ethernet

Investment Protection

- Polycom IP phones can be upgraded to new software and firmware in the field so as to consistently meet your business communication needs as protocols develop and standards evolve
- Polycom IP phones are standards-based, so there is no need to replace them when upgrading or replacing your standards-based call server

* Currently available on SoundPoint IP 650 only.

¹ Please visit <http://www.polycom.com/techpartners.htm> for a full list of supported IP PBX and Softswitch solutions.

² The SoundPoint IP 301 has a monitor-only speakerphone.

³ Requires SIP version 2.0.x or higher.

⁴ Most features must be supported by the call server. Please contact your IP PBX / Softswitch vendor or service provider for a list of supported features.

⁵ Not all Polycom VoIP phones support all features. Please refer to the product documentation (user guides and data sheets) for details.

⁷ Requires BootROM 3.0.x or higher.



Polycom VoIP Product Line At-a-Glance



SoundPoint IP 301: High-quality two-line desktop IP telephone that delivers remarkable value

- Positioning
 - Deployment focus: common areas, warehouse, dorm rooms
 - Supported call traffic: low
 - Feature set: basic
- 2 lines
- Two-port 10/100 Ethernet switch
- PoE support with optional cable
- Monitor-only speakerphone
- 4 line x 20 character-based LCD
- 12 dedicated hard keys, 3 context-sensitive soft keys
- SIP, MGCP



SoundPoint IP 430: Full-duplex speakerphone, built-in PoE, and a graphical LCD in a two-line telephone

- Positioning
 - Deployment focus: cubicle
 - Supported call traffic: low
 - Feature set: basic-to-mid-range
- 2 lines
- Two-port 10/100 Ethernet switch
- Full-duplex speakerphone featuring Polycom Acoustic Clarity Technology
- Built-in, auto-sensing PoE (IEEE 802.3af)
- 132 x 46 graphical LCD
- 16 dedicated hard keys, 4 context-sensitive soft keys
- SIP



SoundPoint IP 501: Three-line desktop IP telephone that delivers exceptional voice quality

- Positioning
 - Deployment focus: office, SOHO, hotel room
 - Supported call traffic: medium
 - Feature set: mid-range
- 3 lines
- Two-port 10/100 Ethernet switch
- Full-duplex speakerphone featuring Polycom Acoustic Clarity Technology
- 160 x 80 grayscale graphical LCD
- 24 dedicated hard keys, 4 context-sensitive soft keys
- SIP, MGCP



SoundPoint IP 601: Six-lines, advanced functionality, and Expansion Module support

- Positioning
 - Deployment focus: executive office, telephone attendant's desk
 - Supported call traffic: high
 - Feature set: mid-range-to-advanced
- 6 lines (standalone) / 12 lines (with the Expansion Module)
- Two-port 10/100 Ethernet switch
- Built-in, auto-sensing PoE (IEEE 802.3af and Cisco Inline Power)
- Full-duplex speakerphone featuring Polycom Acoustic Clarity Technology
- 320 x 160 grayscale graphical LCD
- 26 dedicated hard keys, 4 context-sensitive soft keys
- Support of up to three SoundPoint IP Expansion Modules
- XHTML microbrowser
- SIP, MGCP



SoundPoint IP 650: High-performance IP phone with HD Voice

- Positioning
 - Deployment focus: executive office, telephone attendant's desk
 - Supported call traffic: high
 - Feature set: advanced
- 6 lines (standalone) / 12 lines (with the Expansion Module)
- Two-port 10/100 Ethernet switch
- Built-in, auto-sensing PoE (IEEE 802.3af)
- Polycom HD Voice technology for life-like sound quality for all audio paths
- 320 x 160 backlit grayscale graphical LCD
- 26 dedicated hard keys, 4 context-sensitive soft keys
- Support of up to three SoundPoint IP Expansion Modules
- XHTML microbrowser
- USB port for future applications
- SIP



SoundPoint IP Expansion Module: Turn the SoundPoint IP 601/650 into a high-performance attendant console

- Positioning
 - Deployment focus: telephone attendant's desk, informal call center
 - Supported call traffic: very high
- 14 illuminated multifunctional keys configurable as a line appearance, or a speed-dial with busy lamp field (BLF) functionality
- 160 x 320 grayscale graphical LCD
- Plug-and-play – slide it onto the host phone and it works
- Cord-free, no AC adapter is required – power and signaling are provided by the host SoundPoint IP 601/650 phone
- Hot-swappable - attach / detach the Expansion Module to / from the idle host phone at any time



SoundPoint IP 4000: A clear IP conferencing solution

- Full-duplex conference phone featuring Polycom Acoustic Clarity Technology
- 10-ft. microphone coverage expandable to cover rooms up to 20 ft. x 30 ft. with optional extension microphones
- PoE support with optional PoE Interface Module
- Backlit, graphical 248 x 68 pixel LCD
- SIP

* Subject to change without notice

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