

# 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 platforms<sup>1</sup>.
- 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-duplex<sup>2</sup> 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 DSCP<sup>3</sup>
  - Dynamic jitter buffer
  - Sophisticated packet loss concealment algorithms

##### Enhanced Call Handling, Security, and Advanced Applications<sup>4,5</sup>

- Support of up to 24 simultaneous calls on up to 12 lines
- Shared call / bridged line appearance
- Busy Lamp Field (BLF)
- Multiple call- and flexible line appearances
- TLS security<sup>3</sup>, encrypted configuration files<sup>3</sup>, HTTPS secure provisioning<sup>7</sup>, support of "signed" software executables<sup>7</sup>, URL syntax for boot server address, and digest authentication
- Microsoft® LCS 2005 interoperability for telephony and presence<sup>3</sup>
  - Compatibility with Microsoft Office Communicator and Windows® Messenger 5.1 clients
- XHTML micro-browser for productivity-enhancing Web-based applications<sup>8</sup>

##### Ease of Use

- Polycom IP phones provide an easy transition from legacy PBX and Key Systems to the world of IP communications:
  - Intuitive user interface
  - Easy-to-read, 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, HTTP<sup>7</sup>, or HTTPS<sup>7</sup> server
  - Support of provisioning<sup>3</sup> and call server redundancy
  - Manual or DHCP set-up. Web configuration
  - Lower cabling expenses: dual-port 10/100 Mbps Ethernet switch for LAN and PC connection<sup>9</sup>
  - Choice of powering options: AC adapter or Power over Ethernet

##### Investment Protection

- Polycom IP phones can be upgraded to new 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 and 550. In some calling scenarios, such as IP to PSTN, Polycom HD Voice will not be available and the call will progress in narrowband instead.

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

<sup>2</sup> The SoundPoint IP 301 has a monitor-only speakerphone.

<sup>3</sup> Requires SIP version 2.0.x or higher.

<sup>4</sup> 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.

<sup>5</sup> Not all Polycom VoIP phones support all features. Please refer to the product documentation for details.

<sup>7</sup> Requires BootROM 3.0.x or higher.

<sup>8</sup> Not available on the SoundPoint IP 301.

<sup>9</sup> The SoundPoint IP 320 and SoundStation IP 4000 have a single 10/100 Ethernet port.



TOGETHER, GREAT THINGS HAPPEN.

# Polycom VoIP Product Line At-a-Glance

## ENTRY-LEVEL



**SoundPoint IP 301:** Entry-level two-line desktop IP phone that delivers remarkable value

- Application targets: common areas, warehouse
- 2 lines
- 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

## PERFORMANCE



**SoundPoint IP 550:** Cutting-edge SIP feature set meets Polycom HD Voice

- Application targets: manager's / professional's office
- 4 lines
- Integrated PoE support (IEEE 802.3af)
- Polycom HD Voice for all audio paths
- 320 x 160 pixel backlit grayscale graphical LCD
- 26 dedicated hard keys, 4 context-sensitive soft keys
- SIP



**SoundPoint IP 330 and 320:** Entry-level IP phones with enterprise-grade features and outstanding voice quality

- Application targets:
  - Cubicle, call center (SoundPoint IP 330)
  - Common areas, dorm rooms, wall-mounted deployments (SoundPoint IP 320)
- 2 lines
- Integrated PoE support (IEEE 802.3af)
- Full-duplex speakerphone with Acoustic Clarity Technology
- 102 x 33 pixel graphical LCD
- 15 dedicated hard keys, 3 context-sensitive soft keys
- Two-port 10/100 Ethernet switch (SoundPoint IP 330)
- Single 10/100 Ethernet port (SoundPoint IP 320)
- SIP



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

- Application targets: manager's office, telephone attendant's desk
- 6 lines (standalone) / 12 lines (with Expansion Module)
- Integrated PoE support (IEEE 802.3af and Cisco Inline Power)
- Full-duplex speakerphone with Acoustic Clarity Technology
- 320 x 160 pixel grayscale graphical LCD
- 26 dedicated hard keys, 4 context-sensitive soft keys
- Support of up to three Expansion Modules (SIP only)
- SIP, MGCP

## MAINSTREAM



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

- Application target: cubicle
- 2 lines
- Full-duplex speakerphone with Acoustic Clarity Technology
- Integrated PoE support (IEEE 802.3af)
- 132 x 46 pixel graphical LCD
- 16 dedicated hard keys, 4 context-sensitive soft keys
- SIP



**SoundPoint IP 650:** High-performance IP phone with Polycom HD Voice™

- Application targets: executive office
- 6 lines (standalone) / 12 lines (with Expansion Module)
- Integrated PoE support (IEEE 802.3af)
- Polycom HD Voice for all audio paths
- 320 x 160 pixel backlit grayscale graphical LCD
- 26 dedicated hard keys, 4 context-sensitive soft keys
- Support of up to three Expansion Modules
- USB port for future applications
- SIP

## ATTENDANT



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

- Application target: telephone attendant's desk
- 14 illuminated keys configurable as a line key, or a speed dial with BLF
- 160 x 320 pixel grayscale graphical LCD
- Plug-and-play, hot-swappable
- Cord-free, no AC adapter required – power and signaling are provided by the host phone



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

- Application targets: office, SOHO, hotel room
- 3 lines
- PoE support with optional cable
- Full-duplex speakerphone with Acoustic Clarity Technology
- 160 x 80 pixel grayscale graphical LCD
- 24 dedicated hard keys, 4 context-sensitive soft keys
- SIP, MGCP

## CONFERENCE



**SoundStation IP 4000:** The clear IP conferencing solution

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

\* Subject to change without notice

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Rev. 03/07