



# Polycom® VoIP Products

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

Polycom is a leading independent supplier of standards-based IP phones. Our phones are fully interoperable with leading IP PBX and Softswitch platforms<sup>1</sup>, hence Polycom customers can have a variety of end-to-end, tightly integrated VoIP solutions to choose from. VoIP solutions that feature Polycom phones provide a high-quality, rich communications experience, deliver productivity-enhancing new applications, and offer significant cost savings through consolidation of network costs for voice and data, and elimination of costs of phone moves, adds, and changes.

#### **Polycom Offers the Right VoIP Endpoints to Meet Your Business Communication Needs**

Polycom provides a wide range of VoIP phone models plus a choice of supported protocols and call servers to match the unique requirements of your organization. The Polycom VoIP product portfolio includes the SoundPoint® IP family of desktop phones, an attendant console based on the SoundPoint IP 601/650 and Expansion Module, and the SoundStation® IP 4000 conference phone. Our phones are engineered to deliver a superb communications experience. They offer outstanding sound quality, advanced functionality, ease of use, security, tools for efficient provisioning and upgrades, and protection of your investment over time.

#### **Outstanding Sound Quality**

Polycom VoIP phones deliver unrivaled sound quality and full-duplex speakerphone performance. Polycom's revolutionary HD Voice technology is taking the quality of voice communications to the next level. Polycom HD Voice leverages the G.722 wideband audio codec, patented digital signal processing algorithms, and proprietary hardware design to enable life-like interactivity, richness, and clarity of voice calls\*. Polycom VoIP phones

also incorporate features to ensure superb voice quality on the network. They include IEEE 802.1 p/Q, Layer 3 TOS, and DSCP<sup>4</sup> Quality of Service (QoS) support, dynamic jitter buffer, and sophisticated packet loss concealment algorithms. Polycom VoIP phones enhance the productivity of your calls because you spend less time trying to hear what other people are saying, and more time communicating with them.

#### **Advanced Functionality<sup>2</sup>**

Polycom's cutting-edge SIP software enables enhanced call handling, security, and advanced applications on Polycom VoIP phones. Shared call / bridged line appearance; multiple call- and flexible line appearances; busy lamp field (BLF)<sup>2</sup> functionality; HTTPS<sup>4</sup> and TLS<sup>3</sup> security; support of Microsoft LCS 2005<sup>3</sup> for telephony and presence are just a few of the many software features<sup>5</sup> developed to perfect the user experience.

#### **Ease of Use**

Polycom VoIP endpoints offer an easy transition from legacy PBX and Key Systems to the world of IP communications. Our phones boast an intuitive user interface, encompassing a high-quality, easy-to-read LCD, intuitive menu navigation, and a combination of familiar dedicated feature keys and context-sensitive soft keys for one-button access to essential telephony features. All Polycom desktop IP phones have a dedicated headset port, so that users can have the flexibility to use the phones with a handset, hands-free speakerphone, or an optional headset.

#### **Efficient Installation, Provisioning, and Upgrades**

Polycom VoIP phones are designed to make installation, configuration, and upgrades as simple and efficient as possible. The phones can be

centrally configured and upgraded in the field from an FTP, TFTP, HTTP<sup>4</sup>, or HTTPS<sup>4</sup> server and support provisioning and call server redundancy<sup>3</sup>. Polycom desktop VoIP phones boast dual-port Ethernet switches<sup>6</sup> for LAN and PC connection, so you can leverage existing CAT 5 wiring and avoid additional cabling expenses. Furthermore, all Polycom VoIP phones provide a choice of powering options and support both an external AC adapter and Power over Ethernet (PoE).

#### **Investment Protection**

Polycom products are your future-proof choice for business-class IP communications. Our standards-based phones can be upgraded to new software and firmware in the field to consistently meet your evolving needs, whether you must switch to a new call server solution, or just prefer to keep your organization on the cutting edge of developments in VoIP.

#### **Make Great Things Happen with Polycom's VoIP Solutions**

In today's Internet-driven world, the ability to conduct real time communication and collaboration has become critical to an organization's survival. As the market leader in voice, video, data and Web solutions, our award-winning conference technology makes it easy for people to interact and maximize productivity – over any network, in just about any environment, anywhere around the globe. That's why more organizations worldwide use and prefer Polycom conferencing solutions. Because when people work together, great things happen. See how you, too, can achieve great things with Polycom's VoIP Solutions.

\* HD Voice is currently available on Polycom 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 platforms.

<sup>2</sup> Features must be supported by the call server. Please contact your IP PBX or Softswitch vendor for a list of supported features.

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

<sup>4</sup> Requires BootROM version 3.0.x or greater.



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

<sup>6</sup> Dual-port Ethernet switch is available on all models, except the SoundPoint IP 320 and SoundStation IP 4000 that have a single Ethernet port.



TOGETHER, GREAT THINGS HAPPEN.

# Polycom VoIP Products Comparison

FEATURE / MODEL	ENTRY-LEVEL		MAINSTREAM	
				
	SoundPoint IP 301	SoundPoint IP 330 and 320	SoundPoint IP 430	SoundPoint IP 501
<b>Positioning</b>				
Application Targets	Common areas, wall-mounted deployments, warehouse	IP 330 - Cubicle, call center IP 320 - Common areas, wall-mounted deployments	Cubicle, call center	Office
<b>LCD Display</b>	4 line x 20 character monochrome	102 x 33 pixel graphical	132 x 46 pixel graphical	160 x 80 pixel graphical
Unicode Characters Support		European character set	European character set	European character set
<b>Expansion Module Support</b>				
<b>Audio Features</b>				
Polycom HD Voice Technology				
Full-Duplex Speakerphone with Acoustic Clarity Technology		■	■	■
<b>Telephony Keys</b>				
Lines (Directory Numbers)	2	2	2	3
Line/Speed Dial Keys	2	2	2	3
Mute, Headset, and Hands Free Keys	Mute and headset	■	■	■
Context-Sensitive Soft Keys	3	3	4	4
Display/Menu Navigation Keys	2	5	5	6
Message Waiting Indicator	■	■	■	■
<b>Advanced Features<sup>2</sup></b>				
Busy Lamp Field (BLF) Functionality	■	■	■	■
Shared Call / Bridged Line Appearance	■	■	■	■
Flexible Line Appearance	■	■	■	■
Multiple Call Appearances	■	■	■	■
XHTML Micro-Browser		■	■ <sup>1</sup>	■ <sup>1</sup>
Microsoft LCS 2005 Interoperability for Telephony and Presence <sup>3</sup>	■	■	■	■
<b>Connectivity</b>				
USB Port				
Two-port 10/100 Mbps Ethernet Switch	■	IP 330 – yes IP 320 – single Ethernet port	■	■
<b>Power Options</b>				
AC Power	■	■ <sup>7</sup>	■	■
Power Over Ethernet (Cisco)	■ <sup>5</sup>			■ <sup>5</sup>
Power Over Ethernet (IEEE 802.3af)	■ <sup>5</sup>	■	■	■ <sup>5</sup>
<b>Protocol Support</b>				
IETF MGCP V1.0 With NCS	■ <sup>8</sup>			■ <sup>8</sup>
SIP (RFC 3261)	■	■	■	■

<sup>1</sup> Requires SIP 2.1.x or higher.

<sup>2</sup> Most features must be supported by the call server. Please contact your IP PBX or Softswitch vendor for a list of supported features.

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

<sup>4</sup> Requires BootRom 3.0 or higher.

<sup>5</sup> With optional cable (IEEE: 2200-11077-002, Cisco: 2200-11014-002)

<sup>6</sup> With optional PoE Interface Module (part number: 2200-06630-001)

<sup>7</sup> AC adapter optional (NA part number for AC adapter 5-packs: 2200-17569-001)

<sup>8</sup> Part numbers for MGCP and SIP SKUs are different. Please refer to the Polycom price list for details.

PERFORMANCE

ATTENDANT

CONFERENCE



SoundPoint IP 550

SoundPoint IP 601

SoundPoint IP 650

SoundPoint IP Expansion Module

SoundStation IP 4000

Manager's / professional's office

Manager's office / Attendant's desk – with Expansion Modules

Executive office / Attendant's desk – with Expansion Modules

Attendant's desk – with SoundPoint IP 601 or 650

Small to medium-sized conference room

320 x 160 pixel backlit graphical grayscale

320 x 160 pixel graphical grayscale

320 x 160 pixel backlit graphical grayscale

160 x 320 pixel graphical grayscale

248 x 68 pixel backlit graphical



Up to 3 Expansion Modules

Up to 3 Expansion Modules



4

6 (12 with Exp. Module)

6 (12 with Exp. Module)

1

4

6 (48 with 3 Exp. Modules)

6 (48 with 3 Exp. Modules)

14



Mute and hands free

4

4

4

3

6

6

6

3



Through the host phone



Through the host phone



Through the host phone



Through the host phone



Through the host phone



Single Ethernet port



Through the host phone



Through the host phone



Through the host phone



[www.polycom.com/voip](http://www.polycom.com/voip)

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