

Poly Edge E500 IP Phone and PoE-enabled

Designed for the new way you work

This desk phone makes work easy. Built for hot-desking or the home office, these phones offer the perfect user experience. Two displays and 12-line keys give you more ways to connect, plus quality audio, in a seriously sharp package.



*Product image may differ from actual product

Built to grow

This workhorse phone is outfitted with a big 5-inch color display and is designed to handle up to 48 lines. What's more, the Poly Edge E500 Series can take on two additional expansion modules, supporting up to 66 more contacts each.

Integrated protection

Rest assured that your devices, enhanced with Microban® antimicrobial product protection, stay cleaner, fresher, and more durable for longer. Protection that lasts the life of the product, actively reducing the growth of bacteria 24/7¹.

Enterprise-quality sound

The Poly E400 Series offer quality audio with Poly HD voice and bass frequency enhancing speaker design. They reduce noise and distractions with Poly NoiseBlockAI and Acoustic Fence technologies.

All the features you could ask for

Get fast access to features via a large 5" color display. Stay informed with the surround light status indicator with RGB mixing. And handle multiple calls with ease using 12-line keys supporting up to 48 lines, features, and contacts.

Versatile connectivity

Enjoy better connectivity with two high-speed GigE PoE Ethernet ports for the LAN connection to your IP phone with a passthrough connection to your PC. And a Poly headset for your workstyle: USB, RJ9, or Electronic Hook Switch.²

Accessibility is key

Enhance the user experience with phones that sound great and are more efficient. Features like improved accessibility with text-to-speech, screen color adjustments for color blindness, and bigger font settings provide more ways to connect.

Get more done

Supercharge your Poly Edge E500 desk phones with the Poly Edge E expansion modules. 22-line keys and 3 pages – up to 66 contacts per expansion module. Setup is a plug-and-play snap, with power and signaling provided by the host phone.³

Datasheet

Poly Edge E500 IP Phone and PoE-enabled

Specifications



Display

Aspect ratio: 9:16
Native resolution: 800 x 480
Panel technology: Color IPS LCD
Display size (diagonal): 5"
Display size (diagonal, metric): 12.7 cm (5")

Connectivity and communications

External I/O ports:
 1 USB 2.0 Type-C² (for media, storage applications, headset, expansion module)
 2 RJ-45 (10/100/1000BASE-TX Mbps)

Wireless technologies:
 NFC³

Battery

Power features:
 13 W (maximum)
 Built-in auto-sensing IEEE 802.3af Power over Ethernet (Class 4)^{2,4}

User interface features

Languages:
 Arabic; Chinese; Czech; Danish; Dutch; English; French; German; Hungarian; Italian; Japanese; Korean; Norwegian; Polish; Portuguese; Romanian; Russian; Slovenian; Spanish; Swedish

Audio

Audio features:
 Poly HD Voice
 Poly Acoustic Clarity technology provides full duplex conversations, acoustic echo cancellation, and background noise suppression
 Poly Acoustic Fence technology eliminates background noise when using a handset or wired headset
 Poly NoiseBlockAI technology removes most background noise when using the speakerphone
 Poly Computer Audio Connector app installed on your PC (Windows only) enables selecting your phone for PC audio in/out to use the phone's handset, optional headset and handsfree speakerphone with PC applications
 Bass frequency enhancing design
 TIA-920 wideband audio, type 1 compliant (IEEE 1329 full duplex)
 Individual volume settings with visual feedback for each audio path
 Voice activity detection
 Comfort noise generation
 DTMF tone generation (RFC 2833 and in-band)
 Low delay audio packet transmission
 Adaptive jitter buffers

Frequency response (microphone): 150 Hz to 14 kHz

Audio codecs:
 G.711 (A-law and μ -law)
 G.722
 G.729AB
 iLBC
 OPUS
 G.722.1

Environmental

Certifications and compliances: AS/NZS 60950.1; AS/NZS 62368.1; Australia RCM; Brazil ANATEL; CAN/CSA C22.2 No. 62368-1/14; CE Mark; CISPR22 Class B; EN55024; EN55032 Class B; EN 60950-1 & EN 62368-1; EN61000-3-2, EN61000-3-3; FCC Part 15 (CFR 47) Class B; IEC 60950-1 & IEC 62368-1; ICES-003 Class B; NZ Telepermit; ROHS compliant; Saudi Arabia CITC; So. Africa ICASA; So. Korea KC; UAE TRA; UL 62368.1; VCCI Class B; Eurasian Customs Union EAC; Indonesia SDPPP; Mexico NOM ANCE; TAA; UK - UKCA
Operating humidity range: 5 to 95%
Operating Temperature Range (Celsius) / Operating Temperature Range (Fahrenheit): 0 to 40°C / 32 to 104°F
Storage temperature range (Celsius) / Storage temperature range (Fahrenheit): -40 to 70°C / -40 to 160°F
Energy star certified: ENERGY STAR[®] certified

Certifications

Special features:
 Unicode UTF-8 character support
 Adjustable desk stand (2 positions)⁵

Applications supported

Management software:
 Poly Zero Touch Provisioning
 Poly Lens
 Polycom Device Management Service for Service Providers (PDMS-SP) Cloud Management SDP

Display features

Lightbar status indicator (RGB with color mixing)

Security

Security management:
 802.1X Authentication and EAPOL Media encryption via SRTP
 Digest authentication
 Encrypted configuration files
 HTTPS secure provisioning
 Password login
 Support for signed software executables
 Support for URL syntax with password
 Transport Layer Security (TLS)
 SRTP media encryption using AES 256 bits

Network

Supported network protocols:
 DHCP VLAN discovery
 LLDP-MED for VLAN discovery
 FTP/TFTP/HTTP/HTTPS server-based central provisioning
 Hardware diagnostics
 Manual or dynamic host configuration protocol (DHCP) network setup
 Network address translation support for static configuration and Keep-Alive
 QoS Support – IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS, and DHCP
 Status and statistics reporting
 Syslog Event Logging
 Conforms to IEEE802.3-2005 (Clause 40) for physical media attachment
 Conforms to IEEE802.3-2002 (Clause 28) for link partner auto-negotiation
 Time and date synchronization using SNTP
 RTP and RTCP support
 IPv4
 IPv6
 Provisioning and call server redundancy support
 DNS-SRV
 UDP
 SIP protocol support
 IETF SIP (RFC 3261 and companion RFCs)
VoIP features:
 12 line keys supporting up to 34 SIP lines with pagination

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Specifications



Headset and handset compatibility

Headset ports:

- 1RJ-9
- 1Electronic Hook Switch (EHS) port for optional APP-51 adapter

Headset and handset compatibility:

- Compatible with commercially available TTY adapter equipment
- Compliant with ADA Section 508 Subpart B 1194.23 (all)
- Hearing aid compatibility to ITU-TP.370 and TIA 504A standards
- Hearing aid compatible (HAC) handset for magnetic coupling to hearing aids
- USB Type-C® headset support

Telephony and call handling features

Telephony and call handling features:

- 4 context-sensitive soft keys
- 4 way navigation key cluster with center Select key
- Bundled with Polycom UC Software: Corporate Directory Access using LDAP
- Busy Lamp Field (BLF)
- Call timer and call waiting
- Call transfer, hold, divert (forward), park, pickup
- Called, calling, connected party information
- Calling Party Identification (RFC8225 classifications – Trusted, Unknown, SPAM)
- Distinctive incoming call treatment/call waiting
- Do not disturb function
- Electronic hook switch capable
- Enhanced Feature Keys make powerful feature shortcuts online key appearances or soft keys
- Headset select key (illuminated when selected)
- Hold and transfer keys
- Home and back feature keys
- Local three-way audio conferencing
- Local configurable digit map/dial plan
- Mute key (illuminated when muted)
- One-touch speed dial, redial
- Pagination key for additional lines/contacts
- Remote missed call notification
- Reverse number lookup via LDAP
- Shared call/bridged line appearance
- Speakerphone select key (illuminated when selected)
- Supports Polycom Apps SDK and API for third-party business and personal application
- Visual Conference Management
- Voicemail key
- Volume +/- control keys
- Flexible line appearance (one or more line keys can be assigned for each line extension)
- 12 line keys supporting up to 48 line key assignments for lines, contacts, and features with pagination¹

Weight and dimensions

- Product Primary Color: Black
- Package dimensions (Imperial): 10 x 13.3 x 3.5 in
- Package dimensions (metric): 25.6 x 33.8 x 8.9 cm
- Package weight (Imperial): 2.4 lb
- Package Weight (metric): 1080 g
- Product number: 82M94AA

Country of origin

- Country of origin: Made in China

Warranty

- Poly standard one-year limited warranty

What is in the box

- Setup sheet
- Network (LAN) cable-CAT-5E
- Desk stand
- Console with Microban® Antimicrobial protection
- Handset with Microban® Antimicrobial protection
- Handset cord

Key Selling Points Footnotes

¹ Microban antimicrobial product protection available for the Poly Edge E Series phones protects the entire phone except for the handset cord. Microban antimicrobial product protection is a built-in active ingredient that enables products to resist the growth of microbes such as bacteria, mold, and mildew. Microban protection helps products stay cleaner, fresher, and last longer than products with untreated surfaces. ² Poly headsets sold separately. Poly Electronic Hook Switch (EHS) sold separately. ³ Plug up to 2 Poly Edge E expansion modules for up to 132 additional contacts on the Poly Edge E500 and Poly Edge E550 IP desk phones.

Technical Specifications Footnotes

¹ Most software-enabled features must be supported by the service provider platform. Please contact your IP PBX/softswitch vendor or service provider for a list of supported features. ² External universal AC/DC adapter, 5 VDC, 3 A, 15 W (sold separately). Power supply unit (PSU) sold separately. ³ NFC-enabled Edge E series phones allow third-party applications to read serial number and other device information that can be useful in application development such as guest login for phone hoteling. ⁴ Ordering an optional power supply unit will be necessary if not powered over ethernet with PoE (i.e. using Wi-Fi for network). ⁵ Optional wall mount kit can be ordered separately.