Poly Edge E450 IP Phone and PoE-enabled

*Product image may differ from actual product

Designed for the new way you work

This desk phone makes hybrid work easy. Built for hot-desking or the home office, these phones offer the perfect user experience. Two displays and 14-line keys give you more ways to connect, plus quality audio, in a seriously sharp package.

The new office standard

The perfect desk phone for the modern office, the Poly Edge E400 Series is packed with features and contacts plus Poly noise reduction technology.

Integrated protection

Rest assured that your devices stay cleaner for longer with integrated Microban® antimicrobial product protection [1].

Enterprise-quality sound

Enjoy quality audio with the Poly Edge E400 Series plus reduce distractions with Poly NoiseBlockAI and Acoustic Fence technologies.

Featuring

All the features you need

Get fast access to the features and contacts you need via the main 3.5" color display plus an additional 2.4" display.

Versatile connectivity

Two high-speed GigE PoE Ethernet ports for the LAN connection to your IP phone. And a Poly headset: Bluetooth®, USB, RJ9, or Electronic Hook Switch.

Perfectly paired

Move around the office with ease with your Poly Bluetooth® headset[2] and answer your mobile phone calls from your desk phone[2].

Works wherever you do

Work anywhere with 802.11AC Wi-Fi included. Simple out-of-the-box configuration gives you peak performance anywhere you've got a signal.

Accessibility is key

Improved accessibility with text-to-speech feature, screen color adjustments for color blindness and bigger font settings.

Get more done

Turn your Poly Edge E500 desk phone into an attendant console by adding up to two Poly Edge E expansion modules.

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Specifications

Display

Aspect ratio: 4:3 (primary); 3:4 (secondary)
Native resolution: 320 x 240 (primary); 240 x 320 (secondary)
Panel technology: Color IPS LCD
Display size (diagonal): 8.9 cm (3.5") (primary); 6.1 cm (2.4") (secondary)

Connectivity and communications

External I/O ports:
1 USB 2.0 Type-C® (for media, storage applications, headset, expansion module)
2 RJ-45 (10/100/1000BASE-TX Mbps)
Wireless Technology:
Bluetooth® 5.0; Wi-Fi network connectivity: 2.4-2.4835 GHz (802.11b, 802.11g, 802.11n HT-20); 5.15-5.825 GHz (802.11a, 802.11n, HT-20, 802.11n HT-40); NFC[3]

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 phones 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

Other features

Special features: Unicode UTF-8 character support; Adjustable desk stand (2 positions); Second display with 6 keys supporting up to 12 contacts[5]

Power supply

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

Environmental

Certifications and compliances: AS/NZS 4268; Australia RCM; Brazil ANATEL; CISPR22 Class B; EEA; EN55024; EN55032 Class B; EN 301 489-1; EN 301 489-3; EN 301 489-17; ETSI EN 300 328 v1.9.1; ETSI EN 301 893 v1.7.1; FCC Part 15 (CFR 47) Class B; FCC Part 15.247; FCC Part 15.407; ICES-003 Class B; Israel MOC; Japan MIC/VCCI; Japan Item (19)-3; Japan Item (19)-3-2; Malaysia SIRIM; NZ Telepermit; Saudi Arabia CITC; Singapore IMDA; So. Africa ICASA; So. Korea KC; UAE TRA; Argentina ENACOM; Canada ICES; Canada-RSS 247 Issue2; China SRRC; China RoHS 2.0; Eurasian Customs Union EAC; India WPC; Indonesia SDPPI; Mexico IFETEL and NYCE; Taiwan NCC; UK - UKCA; USA FCC
Operating humidity range: 5 to 95%
Operating temperature range: 0 to 40°C
Storage temperature range: -40 to 70°C
Energy star certified: ENERGY STAR® certified

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Specifications

Management
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)
Wi-Fi encryption: WEP, WPA-Personal, WPA2-Personal, WPA2-Enterprise with 802.1X (EAP-TLS, PEAP-MSCHAPv2)
SRTP media encryption using AES 256 bits

Headset and handset compatibility
Headset ports:
1 RJ-9
1 Electronic 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)
14 line keys (arranged 8+6 on two displays) supporting up to 44 line key assignments for lines, contacts, and features with pagination[1]

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
RTCP and RTP support
IPv4
IPv6
Provisioning and call server redundancy support
DNS-SRV
UDP
SIP protocol support
IETF SIP (RFC 3261 and companion RFCs)
VoIP features:
8 line keys supporting up to 32 SIP lines with pagination

Weight and dimensions
Product Primary Color: White; Midnight blue
Package weight: 300 g
Package dimensions: 1
Master carton quantity: 5
Master carton dimension: 24.5 x 44 x 29.5 cm
Master carton weight: 6.4 kg
Cartons per layer: 8
Pallet (layers): 6
Cartons per pallet: 48
Products per layer: 40
Products per pallet: 240
Pallet weight: 357 kg
Pallet dimensions: 101.6 x 121.9 x 149 cm
Product number: 82M90AA
Product name: Poly Edge E450 IP Phone and PoE-enabled

Warranty
Poly standard one-year limited warranty

Country of origin
Country of origin: Made in China

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

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Footnotes

Messaging 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] Poly Edge E Series phones connecting via Wi-Fi must be powered by an optional power supply unit when not powered via PoE. [4] Plug one (1) Poly Edge E expansion module for up to 66 additional contacts on the Poly Edge E450 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.

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March 2025
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