

# Poly Edge E450 IP Phone and PoE-enabled with Power Supply

## 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.



\*Product image may differ from actual product

### The new office standard

The perfect desk phone for the modern office, the Poly Edge E400 Series is packed with features and contacts. These phones pair Poly noise reduction technology with cutting-edge design that brings style to any desktop.

### 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 24/7<sup>1</sup>.

### 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.

Datasheet

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## Specifications



### Display

**Aspect ratio:** 16:9 (primary); 9:16 (secondary)  
**Native resolution:** 320 x 240 (primary); 240 x 320 (secondary)  
**Panel technology:** Color IPS LCD  
**Display size (diagonal):** 3.5" (primary); 2.4" (secondary)  
**Display size (diagonal, metric):** 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<sup>2</sup> (for media, storage applications, headset, expansion module)  
 2 RJ-45 (10/100/1000BASE-TX Mbps)

#### Wireless technologies:

Bluetooth<sup>®</sup> 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<sup>3</sup>

### Battery

**Power features:**  
 13 W (maximum)  
 Built-in auto-sensing IEEE 802.3af Power over Ethernet (Class 4)<sup>2,4</sup>

### 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 NoiseBlock AI 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  $\mu$ -law)  
 G.722  
 G.729AB  
 iLBC  
 OPUS  
 G.7221

### 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; ETSI EN 301 893 v1.7; 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 CTC; Singapore IMDA; So. Africa ICASA; So. Korea KC; UAE TRA; Argentina ENACOM; Canada ICES; Canada-RSS 247 Issue 2; China SRRC; China RoHS 2.0; Eurasian Customs Union EAC; India WPC; Indonesia SDPP; Mexico IFTETEL and NYCE; Taiwan NCC; UK - UKCA; USA FCC  
**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<sup>®</sup> certified

### Certifications

**Special features:**  
 Unicode UTF-8 character support  
 Adjustable desk stand (2 positions)  
 Second display with 6 keys supporting up to 12 contacts<sup>5</sup>

### 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)  
 Wi-Fi encryption: WEP, WPA-Personal, WPA2-Personal, WPA2-Enterprise with 802.1X (EAP-TLS, PEAP-MSCHAPv2)  
 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 IEEE 802.3-2005 (Clause 40) for physical media attachment  
 Conforms to IEEE 802.3-2002 (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

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## Specifications



### 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-T P.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<sup>1</sup>

### Weight and dimensions

- Product Primary Color: Black
- Package dimensions (Imperial): 10.2 x 12 x 3.5 in
- Package dimensions (metric): 25.8 x 30.6 x 8.9 cm
- Package weight (Imperial): 2.45 lb
- Package Weight (metric): 1110 g
- UPC number: 196188444498
- Product number: 89B55AA

### 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

<sup>1</sup> 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.

### Technical Specifications Footnotes

<sup>1</sup> 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. <sup>2</sup> External universal AC/DC adapter, 5 VDC, 3 A, 15 W (sold separately). Power supply unit (PSU) sold separately. <sup>3</sup> 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. <sup>4</sup> Ordering an optional power supply unit will be necessary if not powered over ethernet with PoE (i.e. using Wi-Fi for network). <sup>5</sup> Optional wall mount kit can be ordered separately.