

Poly VVX 450 12-Line IP Phone and PoE-enabled

Go pro without the price tag

When you want the best small business 12-line phone system for your money, the VVX 450 is full of good surprises. Handle high volume calls easily with the sleek, color display – and be confident conversations will always sound great.



*Product image may differ from actual product

Crystal clear conversations

Hear every nuance on the VVX 450 with Poly HD Voice technology. And reduce distracting background noise with Poly Acoustic Fence technology.

Deploy easily and quickly

IT will appreciate zero-touch provisioning and web-based management capabilities that take the headache out of telephony deployment and support.

Integrated protection¹

Your phones stay cleaner for longer with integrated Microban® antimicrobial product protection¹ actively reducing the growth of bacteria 24/7.

Lines

Stay productive with 12 programmable line keys supporting up to 34-line key assignments with pagination for autodials and contacts.

LCD color display

A large 4.3" backlight color display shows all your lines and necessary information so you can be more productive.

Keys

4-way navigation cluster with a center select key and a 12-key dial pad with controls for mute, speaker, and headset volume.

Add a Poly headset

Multiple Poly headset options are available to suit your style – in addition to the traditional handset.²

Datasheet

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Specifications



Display

Native resolution: 480 x 272
Panel technology: Color LCD
Display size (diagonal): 4.3"
Display size (diagonal, metric): 10.9 cm (4.3")

Connectivity and communications

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

Battery

Power features:
 Built-in auto sensing IEEE 802.3af Power over Ethernet (Class 0)
 13 W (maximum)⁹

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:
 PolyHD 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 headset or wired headset
 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
 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 7 kHz
Audio codecs:
 G.711 (A-law and μ -law)
 G.722
 G.729AB
 iLBC
 OPUS

Environmental

Certifications and compliances: AS/NZS 60950-1; Australia RCM; Brazil ANATEL; CAN/CSA C22.2 No. 62368-1; IEC 60950-1; CE Mark; CISPR22 Class B; EN 60950-1 & EN 62368-1; EN55024; EN55032 Class B; EN61000-3-2, EN61000-3-3; FCC Part 15 (CFR 47) Class B; ICES-003 Class B; IEC 60950-1 & IEC 62368-1; NZ Telepermit; ROHS compliant; So. Korea KC; Saudi Arabia CTC; So. Africa ICASA; UAE TRA; UL 60950-1 and UL 62368-1; VCCI Class B; Indonesia SDPP; Mexico NOM ANCE; Russia CU
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 158 °F
Energy star certified: ENERGY STAR[®] certified

Certifications

Special features:
 Adjustable desk stand (2 positions)
 Unicode UTF-8 character support²

Applications supported

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

Display features

Digital picture frame

Security

Security management:
 8021X 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:
 10/100/1000 Base-TX across LAN and PC ports
 Conforms to IEEE802.3-2005 (Clause 40) for physical media attachment
 Conforms to IEEE802.3-2002 (Clause 28) for link partner auto-negotiation
 Manual or dynamic host configuration protocol (DHCP) network setup
VoIP features:
 Up to 34 SIP line registrations with pagination softkey and/or optional expansion module(s)

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Headset and handset compatibility

Headset ports:

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

Telephony and call handling features

Telephony and call handling features:

- 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
- Local three-way audio conferencing
- Local configurable digit map/dial plan
- One-touch speed dial, redial
- Remote missed call notification
- Reverse number lookup via LDAP
- Shared call/bridged line appearance
- Supports Polycom Apps SDK and API for third-party business and personal application
- Visual Conference Management
- Key system emulation
- STIR/SHAKEN Caller ID validation
- Voice Quality Monitoring (VQMon)
- 12 line keys supporting up to 48 line key assignments for lines, contacts, and features supported with pagination
- Flexible line appearance (one or more line keys can be assigned for each line extension)
- WebKit-enabled full browser that supports HTML5, CSS, SSL security, and JavaScript¹

Weight and dimensions

- Product Primary Color: Black
- Package dimensions (Imperial): 9.5 x 10 x 2.2 in
- Package dimensions (metric): 24 x 23 x 5.7 cm
- Package weight (Imperial): 2.23 lb
- Package Weight (metric): 1004 g
- UPC number: 196337662940
- Product number: 8B1L7AA

Country of origin

- Country of origin: Made in China

Warranty

- Poly standard one-year limited warranty

What is in the box

- Console
- Desk stand/wall mount hardware
- Handset with handset cord
- Network (LAN) cable-CAT-5E
- Setup sheet

Key Selling Points Footnotes

¹ 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.

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 Optional wall mount kit can be ordered separately. ³ External universal AC/DC adapter, 5 VDC, 3 A, 15 W (sold separately).