

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

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

Specifications



Display

Native resolution: 480 x 272

Panel technology: Color LCD

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)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 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 C222 No. 62368-1/14EN 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 SDPPt; Mexico NOM ANCE; Russia CU

Operating humidity range: 5 to 95%

Operating Temperature Range (Celsius) / Operating Temperature Range (Fahrenheit): 0 to 40°C /

Storage temperature range (Celsius) / Storage temperature range (Fahrenheit): -40 to 70°C /

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

Polycm Device Management Service for Service Providers (PDMS-SP) Cloud Management

SDP

Display features

Digital picture frame

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:

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:

1RJ-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 (metric): 24 x 23 x 5.7 cm

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, 5VDC, 3A, 15W (sold separately).