



## DATA SHEET

# Polycom® VVX® 450 Business IP Phone— OBi Edition

Twelve-line, high-performance IP desk phone with color display

The Polycom® VVX® 450 OBi edition business IP desk phone is a high-quality, twelve-line, color display and high-performance IP phone for businesses of all sizes and is ideal for executives and upper management.

### Industry's best audio

The Polycom VVX 450 OBi edition offers both Polycom® HD Voice™ and Polycom® Acoustic Fence™ technologies. Together, they dramatically improve the most important component of the VVX experience—voice clarity.

Polycom HD Voice delivers superior high-definition sound quality through industry-leading, advanced voice processing capabilities. Polycom Acoustic Fence keeps business conversations free from extraneous noises, echoes and distractions.

### Unparalleled flexibility

Polycom VVX 450 OBi edition is flexible, so every pixel can be customized, from labeling to key/button functionality. End users can change the look and feel of the phone interface to meet customer specifications and personalization. Custom skins can be built to incorporate product branding and colors or to reflect a corporate brand or image via Main Menu, Call Screen and Screen Saver.

### Intuitive user interface

The Polycom VVX 450 OBi edition is a desktop phone that meets the budget and communication needs of any business. It's loaded with sophisticated features that are traditionally found only on high-end desktop phones.

The Polycom VVX 450 is easy to use, reliable and stylish. End users will find that it combines an attractive ergonomic hardware design with an intuitive user interface that reduces the time spent learning new features and functions.

### Easy deployment and administration

Packaged with the OBi software, Polycom offers a device customization service known as OBi Zero-Touch, a proprietary cloud-based “late-customization” solution for service provider customers. This allows service providers to personalize their default-running configuration parameters, allowing service providers to ship devices to end users without the need to touch or pre-configure and re-package. OBi Zero-Touch is fully integrated with PDMS-SP, so deployed devices running OBi software can always be bootstrapped to the service provider's management domain.



### Benefits

- Make more natural and lifelike calls with Polycom HD Voice
- Unparalleled flexibility provides built-in customization, so every pixel can be personalized
- 4.3” color display delivers an engaging experience with visual information at a glance
- Two Gigabit Ethernet ports offer cost savings and performance benefits
- USB ports enable users to connect to a Plantronics USB headsets or Wi-Fi 5G dongle
- The web-based configuration tool makes the Polycom VVX 450 phones easy to administer, upgrade and maintain throughout the entire lifecycle

## Product specifications

### User interface features

- 4.3" color LCD (480x272 pixel resolution)
- Adjustable base height
- Unicode UTF-8 character support
- Two USB ports (2.0 compliant) for Plantronics USB headsets or Wi-Fi 5G dongle
- Multilingual user interface including Chinese, Danish, Dutch, English (Canada/US/UK), French, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Slovenian, Spanish and Swedish

### Audio features

- Polycom HD Voice delivers lifelike voice quality for each audio path, handset, hands-free speakerphone, and optional headset.
- Polycom Acoustic Clarity provides full-duplex conversations, acoustic echo cancellation and background noise suppression.
- TIA-920 wideband audio type 1-compliant (IEEE 1329 full duplex)
- Frequency response—150 Hz—7 kHz for handset, optional headset and handsfree speakerphone modes
- Codecs: G.711 (A-law and  $\mu$ -law), G.729AB, G.722 (HD Voice), iLBC, OPUS
- 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
- Packet loss concealment

### Headset and handset compatibility

- Dedicated RJ-9 headset port
- Hearing aid compatibility to ITU-T P.370 and TIA 504A standards
- Compliant with ADA Section 508 Subpart B 1194.23 (all)
- Hearing aid compatible (HAC) handset for magnetic coupling to hearing aids
- Compatible with commercially-available TTY adapter equipment

### Call handling features

- 12 lines (programmable line keys)
- Shared call/bridged line appearance
- Busy lamp field (BLF)

- Flexible line appearance (one or more line keys can be assigned for each line extension)
- Distinctive incoming call treatment/call waiting
- Call timer and call waiting
- Call transfer, hold, divert (forward), pickup
- Called, calling, connected party information
- Local three-way audio conferencing
- One-touch speed dial, redial remote missed call notification
- Do not disturb function
- Electronic hook switch capable
- Local configurable digit map/dial plan
- OBi XML applications:
- Corporate directory access using LDAP

### Network and provisioning

- SIP protocol support
- SDP
- IETF SIP (RFC 3261 and companion RFCs)
- Two-port Gigabit Ethernet switch 10/100/1000Base-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
- Static or dynamic host configuration protocol (DHCP) network setup
- Time and date synchronization using SNTP
- TFTP/HTTP/HTTPS server-based central provisioning for mass deployments
- call server redundancy supported<sup>1</sup>
- QoS Support—IEEE 802.1p/Q tagging
- (VLAN), Layer 3 TOS,
- DHCP VLAN discovery, LLDP-MED for VLAN discovery
- Network address translation support for static configuration and “keep-alive”
- RTCP and RTP support
- Event logging
- Syslog
- Hardware diagnostics
- Status and statistics reporting
- IPv4
- TCP
- UDP
- DNS-SRV

### Security

- 802.1X authentication and EAPOL media encryption via SRTP
- Transport layer security (TLS)
- Encrypted configuration files
- Digest authentication
- Password login
- HTTPS secure provisioning
- Support for signed software executables

### Power

- Built-in auto sensing IEEE 802.3af power over Ethernet (Class 0) 13W (Max)
- External Universal AC/DC Adapter (optional) 5VDC @ 3A (15W)
- ENERGY STAR<sup>®</sup> rated

### Approvals

- FCC Part 15 (CFR 47) Class B
- ICES-003 Class B
- EN55032 Class B
- CISPR32 Class B
- VCCI Class B
- EN55024
- EN61000-3-2; EN61000-3-3
- NZ Telepermit
- Korea KCC3
- UAE TRA
- Russia CU3
- Brazil ANATEL3
- Australia RCM
- South Africa ICASA3
- Saudi Arabia CITC
- China CCC3
- RoHS Compliant
- TAA

### Safety

- UL 60950-1/62368-1
- CE Mark
- CAN/CSA C22.2 No 60950-1/62368-1-1
- EN 60950-1/62368-1
- IEC 60950-1/62368-1
- AS/NZS 60950-1

### Operating conditions

- Temperature: 0 to 40°C (+32 to 104°F)
- Relative humidity: 5% to 95%, noncondensing

### Storage temperature

- -40 to +70° C (-40 to +160° F)

**Polycom VVX 450 comes with**

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

**Size**

- 24cm x 23cm x 5.7cm WxHxD
- 9.5in x 10in x 2.2in WxHxD

**Part number**

- 2200-48840-025 VVX 450 WW PoE

**Weight**

- Carton weight: 1.043kg (2.23 lbs)

**Master carton quantity**

- Ten (10)

**Warranty**

- One (1) year

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1. Most software-enabled features and capabilities must be supported by the server. Please contact your IP PBX/Softswitch vendor or service provider for a list of supported features.

## About Polycom

Polycom helps organizations unleash the power of human collaboration. More than 400,000 companies and institutions worldwide defy distance with video, voice and content solutions from Polycom. Polycom and its global partner ecosystem provide flexible collaboration solutions for any environment that deliver the best user experience and unmatched investment protection.

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