

# Enterprise

## IP Phone

X4U



X4U is an enterprise IP Phone featuring 2.8-inch main color screen and 2.4-inch extended screen, HD voice, gigabit Ethernet, 12 SIP lines, PoE, 6-way audio conference and other extended features like EHS headset, BT dongle and Wi-Fi dongle. It provides the high-quality and convenient experience for users.

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# Highlights

- 2.8-inch main color screen and 2.4-inch extended screen for DSS keys
- HD audio on speakerphone and handset
- Support 6-way audio conference
- 3 Line keys on the main display
- 6 DSS keys on the extended screen, up to 30 DSS keys via 5 pages
- Support EHS wireless headset, Wi-Fi dongle or BT dongle
- Dual Gigabit ports, integrated PoE
- Stand with 2 adjustable angles of 45 and 50 degrees

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# Specification

## Generic

12 SIP Lines

HD Voice

PoE Enabled

2 LCDs (Main + DSS)

Intelligent DSS keys

Handset / Hands-free / Headset mode

Desktop Stand / Wall-mounted (need an additional wall hanging parts)

Optional External Power Supply

## Phone Functions

Local Phonebook (1000 entries)

Remote Phonebook (XML/LDAP, 1000 entries)

Call logs (In/Out/Missed, 600 entries)

Black/White List Call Filter

Screen saver

Voice Message Waiting Indication (VMWI)

Programmable DSS/Soft keys

Network Time Synchronization

Support Bluetooth headset (Via BT dongle BT20)

Support Wi-Fi Dongle (Via WF20)

Support Plantronics wireless headset (through Plantronics APD-80 EHS cable)

Support Jabra wireless headset (through EHS20 EHS cable)

Support recording (through flash drive or server)

Action URL / Active URI

UaCSTA

## Call Functions

Call out / Answer / Reject

Mute / Unmute (Microphone)

Call Hold / Resume

Call Waiting

Intercom

Caller ID Display

Speed Dial

Anonymous Call (Hide Caller ID)

Call Forwarding (Always/Busy/No Answer)

Call Transfer (Attended/Unattended)

Call Parking/Pick-up (Depending on server)

Redial

Do-Not-Disturb

Auto-Answering

Voice Message (With server)

6-way Conference

Hot Line

Hot desking

## Audio

HD Voice Microphone/Speaker (Handset/Hands-free, 0 ~ 7KHz Frequency Response)

HAC handset

Wideband ADC/DAC 16KHz Sampling

Narrowband Codec: G.711a/u, G.723.1, G.726, G.729A/B, iLBC

Wideband Codec: G.722, Opus

Full-duplex Acoustic Echo Canceller (AEC)

Voice Activity Detection (VAD) / Comfort Noise Generation (CNG) / Background Noise Estimation (BNE) / Noise Reduction (NR) / Automatic Gain Control (AGC) / Packet Loss Concealment (PLC)

Dynamic Adaptive Jitter Buffer

DTMF: In-band, Out-of-Band (RFC2833/ SIP INFO)

VQM voice quality monitoring

## Network

Physical: 10/100/1000 Mbps Ethernet, dual bridged port for PC bypass

IP Mode: IPv4/IPv6/IPv4&IPv6

IP Configuration: Static IP / DHCP / PPPoE

Network Access Control: 802.1x

VPN: L2TP / OpenVPN

VLAN

LLDP

CDP

QoS

RTCP-XR (RFC3611), VQ-RTCPXR (RFC6035)

## Protocols

SIP2.0 over UDP/TCP/TLS

RTP/RTCP/SRTP

STUN

DHCP

IPv6

LLDP

CDP

PPPoE

802.1x

L2TP

OpenVPN

SNTP

FTP/TFTP

HTTP/HTTPS

TR-069

AES128 & AES256

## Deployment & Maintenance

Auto-provisioning via FTP/TFTP/HTTP/HTTPS/DHCP OPT66 /SIP PNP/TR-069

Web management portal

Web-based Packet Dump

Configuration Export / Import

Phonebook Import/Export

Firmware Upgrade

Syslog

## Physical Specifications

LCD: 2.8-inch (320x240) Color Screen

DSS key-mapping LCD: 2.4-inch (240x320) color screen

Keypad: 41 keys, including:

- 3 Line keys (with LED indicator light)
- 4 Soft-keys
- 6 Function keys (Hold, Call forward, Conference, MWI, Headset, Redial)
- 4 Navigation keys
- 1 OK key
- 12 Standard phone digits keys
- 3 Volume control keys (Up/Down/Mute (Microphone))
- 6 DSS keys (with LED indicator light)
- 1 Page-switch (PS) key (with LED indicator light)
- 1 Hands-free key (with LED indicator light)

HD Handset (RJ9) x1

Standard RJ9 Handset Wire x1

1.5M CAT5 Ethernet Cable x1

Back Rack x1

Status Indicator Light x1 (Red)

RJ9 Port x2: Handset x1, Headset x1

RJ45 Port x2: Network x1, PC x1 (Bridged to Network)

USB2.0 port x1: Standard A, connect with USB BT dongle or USB Wi-Fi dongle or flash driver

DC port x1:  $\Phi 5.5 \times 2.1 \times 10$ mm

Safety keyhole x1

DC power input: DC5V / 2A

Working Temperature: 0~45°C

Working Humidity: 10~95%

Installation: Desktop Stand  
Wall-mounted (need an additional wall hanging parts)

Color: Black

Device dimensions:  
Desktop stand (angles 1: 45 degree): 214x188.6x181.1 mm  
Desktop stand (angles 2: 50 degree): 214x180.5x190.1 mm  
Wall-mounted: 214x119.4x219.1 mm

Gift box dimensions: 315x228x84 mm

Outer CTN dimensions: 476x440x335 mm (10 PCS)