ESI ePhone 4x™ Enterprise IP Phone

Datasheet

The **ESI ePhone 4x™ Enterprise IP Phone** is a high-end desktop phone with 45 LED programmable feature keys to increase productivity for enterprise users at a cost-effective price.

Base Specifications

Model	Screen Size	Handset
ePhone4x (v2)	4.3"	HD
Ethernet	**PoE**	**Power Adapter**
10 / 100 / 1000 Mbps	✓	Sold Separately

2025 INTERNET TELEPHONY PRODUCT OF THE YEAR

Overview

- Compatible with eSIP Evolution Series™ and ESI eCloud PBX™
- 20 SIP Accounts
- HD Voice (handset + speakerphone)
- PoE Enabled - Optional external power supply sold separately
- 4.3” color LCD Display
- Handset / Hands-free / Headset modes
- Electronic Hook Switch - support for Plantronics® headsets
- Intelligent Programmable Feature Keys
- Two position desktop stand with dual angles (45 and 60 degrees)
- Industrial Standard Certifications: FCC
- Hearing Aid Compatible (HAC)

Call Features

- Call out / answer / reject
- Mute Key
- Call Hold / Resume
- Call Waiting
- Intercom
- Caller ID Display
- Speed Dial
- Call Forwarding (Always / Busy / No Answer)
- Call Transfer (Blind / Supervised)
- Call Parking / Pick-up (depending on server)
- Redial/Auto-Redial
- Do-Not-Disturb (per account)
- Auto-Answering (per line)
- Voice Mail
- Local 3-way Conference
- Hot Line (off-hook dial)

Phone Features

- 45 Programmable Feature Keys (5 pages of 9 keys)
- Phonebook (1000 entries)
- Remote Phonebook (XML / LDAP)
- Call log (1000 entries, in / out / missed)
- Allowed/Blocked List Call Filtering
- Voice Message Waiting Indication (VMWI)
- Fixed Feature Keys
- Network Time Synchronization
- Action URL / Active URI
- Bluetooth: with optional Bluetooth adapter (sold separately)

Audio

- HD Voice Microphone/Speaker; Narrowband CODEC: G.711a/u, G.723.1, G.726-32K, G.729AB, iLBC, Opus
- Wideband CODEC: G.722
- Full-duplex Acoustic Echo Canceller (AEC) – Hands-free Mode, 96ms tail-length
- Voice Activity Detection (VAD) / Comfort Noise Generation (CNG) /
- Background Noise Estimation (BNE) / Noise Reduction (NR)
- Packet Loss Concealment (PLC)
- Dynamic Adaptive Jitter Buffer up to 300ms
- DTMF: In-band, Out-of-Band – DTMF-Relay (RFC2833) / SIP INFO

Networking

- 10/100/1000 Mbps Ethernet, dual bridged port for PC bypass
- IP Configuration: Static / DHCP / PPPoE
- Network Access Control: 802.1x
- VPN: L2TP (Basic Unencrypted) / OpenVPN
- VLAN
- QoS
- WIFI: 2.4GHz with optional WIFI adapter (sold separately)

Protocols

- SIP 2.0 over UDP / TCP / TLS
- RTP / RTCP / SRTP
- STUN
- DHCP
- PPPoE
- 802.1x
- L2TP (Basic Unencrypted)
- OpenVPN
- SNTP
- FTP / TFTP
- HTTP / HTTPS
- TR069

RFCs

- 354 / 1321 / 1350 / 1769 / 1889 / 1890 / 2131 / 2132 / 2616 / 2617 / 2661 / 2833 / 2976 / 3261 / 3262 / 3263 / 3264 / 3265 / 3268 / 3311 / 3489 / 3711 / 4346 / 4566 / 5630 / 5865

Deployment & Maintenance

- eSIPx Bulk Auto-Provisioning
- Auto-Provisioning via FTP / TFTP / HTTP / HTTPS / DHCP OPT66 / SIP PNP / TR069
- Web Management Portal
- Web-based Packet-dump
- Configuration Export / Import
- Phonebook Import/Export
- Firmware Upgrade
- syslog

Physical Specifications

- LCD: 4.3 inch (320x480) color-screen
- Keys:
  - 45 Programmable Feature Keys with tri-color LEDs (5 pages of 9 keys)
  - 4 Soft keys
  - 1 Special Soft key for Page Switch
  - 7 Function keys (Voicemail, Headset, Redial, Hold, Transfer, Contacts, Mute)
  - 4 Navigation keys + 1 OK key
  - 12 Standard Dial Pad keys
  - 3 Volume Control keys, Up / Down / Mute (Microphone)
  - 1 Speakerphone key
- HD Hands-free Speaker (0~7KHz) x1
- HD Hands-free Microphone (0~7KHz) x1
- HD Handset (RJ9) x1
- Standard RJ9 Handset cord x1
- 1.5M CAT5 Ethernet Cable x1
- RJ9 Phone Jack x2: Handset x1, Headphone x1
- RJ45 Ethernet Jacket x2:
- Network x1 (802.3AF POE Class 2 Enabled),
- PC x1 (Bridged to Network)
- Main Chipset: Broadcom
- DC Power Input: 5V / 2A
- Power Consumption:
- Idle – 1.3W ~ 2W, Peak – 3W ~ 4.7W
- Working Temperature: 32 ~ 104° F
- Working Humidity: 10 ~ 65%
- Desktop Stand with dual angles (45 and 60 degrees)
- Color: Black
- Device Dimensions: 9.25 x 8 x 7 inches (Desktop Stand)

The above specifications may be updated in the future without prior notice.
All hardware/software/physical features should be based on the final shipped products.