



# ESI ePhone4x™ Enterprise IP Phone

## Datasheet

The **ESI ePhone4x™ Enterprise IP Phone** is a high-end desktop phone with 40 programmable LED keys to increase productivity for enterprise users at a cost-effective price.

### Base Specifications

Model	Screen Size	Handset
ePhone4x	3.5"	HD
Ethernet	PoE	Power Adapter
10/100/1000 Mbps	✓	Optional



### Overview

- 6 SIP Line capable
- HD voice
- POE Enabled
- 3.5" color LCD Display
- Handset (HS) / Hands-free (HF) / Headphone (HP) mode (EHS support for Plantronics® headsets)
- Intelligent DSS Keys
- Desktop / Wall-mount installation
- Optional External Power Supply
- Industrial Standard Certifications: CE/FCC

### Call Features

- Call out / answer / reject
- Mute / Unmute (microphone)
- Call Hold / Resume
- Call Waiting
- Intercom
- Caller ID Display
- Speed Dial
- Call Forwarding (Always / Busy / No Answer)
- Call Transfer (Attended / Unattended)
- Call Parking / Pick-up (depending on server)
- Redial/Auto-Redial
- Do-Not-Disturb (per line / per phone)
- Auto-Answering (per line)
- Voice Mail (server based)
- Local 3-way Conference
- Hot Line
- Hot-Desking (server based)

### Phone Features

- Phonebook (500 entries)
- Remote Phonebook (XML / LDAP)
- Call log (100 entries, in / out / missed)
- Black/White List Call Filtering
- Voice Message Waiting Indication (VMWI)
- Programmable DSS/Soft keys
- Network Time Synchronization
- Action URL / Active URI

### Audio

- HD Voice Microphone/Speaker (Handset/Hands-free, 0 ~ 7KHz Frequency Response)
- Wideband ADC/DAC 16KHz Sampling
- Narrowband CODEC: G.711a/u, G.723.1, G.726-32K, G.729AB
- 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

## Protocols

- SIP2.0 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: 3.5 inch (320x480) color-screen
- Keypad: 40 keys, including:
  - 10 DSS key with tri-color LED
  - 4 Soft-keys
  - 7 Function keys (Hold, Call forward, Conference, MWI, Handset, Phonebook, Redial)
  - 4 Navigation keys + 1 OK key
  - 12 Standard Phone Digits keys
  - 3 Volume Control keys, Up / Down / Mute (Microphone)
  - 1 Hands-free key
- HD Hands-free Speaker (0~7KHz) x1
- HD Hands-free Microphone (0~7KHz) x1
- HD Handset (RJ9) x1
- Standard RJ9 Handset Wire x1
- 1.5M CAT5 Ethernet Cable x1
- RJ9 Phone Jacket x2: Handset x1, Headphone x1
- RJ11 port x1: Extension Module 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 / 1A
- Power Consumption:
  - Idle – 1.3W ~ 2W, Peak – 3W ~ 4.7W
- Working Temperature: 0 ~ 40° C
- Working Humidity: 10 ~ 65%
- Dual-Functional Back Rack x1: Desktop Stand / Wall- mount
- Color: Black
- Device Dimensions: 241 x 217 x 179mm (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.