ESI ePhone X-1™ Enterprise IP Phone
Datasheet

The **ESI ePhone X-1™ Enterprise IP Phone** is a high-end desktop phone with a built-in sidecar that supports up to 106 LED programmable feature keys. This phone is designed for users that handle heavy call volumes and need visibility into multiple extensions on the network.

Base Specifications

Model	Screen Size	Handset
ePhone X-1	4.3" (main) 2 x 3.5" (side)	HD

Ethernet	PoE	Power Adapter
10 / 100 / 1000 Mbps	✓	Sold Separately

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" main color display, 2x3.5" side color displays for DSS keys
- Handset / Hands-free / Headset modes
- Electronic Hook Switch - support for Plantronics® headsets
- Intelligent Programmable Feature Keys
- Reversable Desktop Stand for adjusting phone angle
- 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
- Anonymous Call (Hide Caller ID)
- Call Forwarding (Always / Busy / No Answer)
- Call Transfer (Blind / Supervised)
- Call Parking / Pick-up (depending on server)
- Redial
- Do-Not-Disturb (per account)
- Auto-Answering (per line)
- Voice Mail
- 3-way Conference
- Hot Line (off-hook dial)

Phone Features
- 106 Programmable Feature Keys
  - 10 keys on the main screen
  - 96 keys on the side panel (3 pages of 32 keys)
- Local Phonebook (2000 entries)
- Remote Phonebook (XML / LDAP, 2000 entries)
- Call log (1000 entries, in / out / missed)
- Black / White List Call Filtering
- Screen Saver
- Voice Message Waiting Indication (VMWI)
- Fixed Feature Keys
- Network Time Synchronization
- Built-in Bluetooth 2.1: Supports Bluetooth headset
- Supports Recording (via Server)
- Action URL / Active URI
- uaCSTA

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, AMR-WB, Opus
- Full-duplex Acoustic Echo Canceller (AEC)
- 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 Mode: IPv4 / IPv6 / IPv4 & IPv6)
- IP Configuration: Static / DHCP / PPPoE
- Network Access Control: 802.1x
- VPN: L2TP (Basic Unencrypted) / OpenVPN
- VLAN, LLDP, QoS
- RTCP-XR(RFC3611), VQ-RTCPXR(RFC6035)
- WIFI: 2.4Ghz via addition of 2.4Ghz WIFI adapter (WIFI adapter sold separately)

Protocols
- SIP 2.0 over UDP / TCP / TLS
- RTP / RTCP / SRTP
- STUN
- DHCP
- IPv6
- LLDP
- PPPoE
- 802.1x
- L2TP (Basic Unencrypted)
- OpenVPN
- SNTP
- FTP / TFTP
- HTTP / HTTPS
- TR-069

Deployment & Maintenance
- eSIPx Bulk Auto-Provisioning
- 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
- Main LCD x1: 4.3 inch (480x272) color-screen LCD
- Feature Key-mapping LCD x2: 3.5 inch (320x480) color-screen LCD
- Keys:
  - 106 Programmable Feature Keys with tri-color LEDs
    - 10 keys on the main screen
    - 96 keys on the side panel (3 pages of 32 keys)
  - 4 Soft keys
  - 6 Function keys
    (Hold, Call forward, MWI, Headset, Phonebook, Redial)
  - 4 Navigation keys + 1 OK key + 1 Return Key
  - 12 Standard Dial Pad keys
  - 3 Volume Control keys, Up / Down / Mute (Microphone)
  - 1 Speakerphone key
  - 3 Page Switch (PS) keys
- Standard RJ9 Handset Wire x1
- 1.5M CAT5 Ethernet Cable x1
- Back Rack x1
- 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 Wi-Fi USB dongle
- DC Power Input: 5V / 2A
- Power Consumption (PoE): 2.6~ 9W, Peak – 3W ~ 4.7W
- Power Consumption (Adapter): 2.4~ 8W
- Working Temperature: 32 ~ 113° F
- Working Humidity: 10 ~ 95%
- Reversable Desktop Stand
- Color: Dark gray
- Device Dimensions:
  - Desktop Stand (Angle 1): 12.2 x 8.4 x 7.4 inches
  - Desktop Stand (Angle 2): 12.2 x 8.9 x 6.6 inches

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.