



**E50**



The E50 Enterprise IP Handset is designed for business managers and busy office professionals to streamline communication and enhance collaboration. The large LCD colour screen along with HD voice, 20 SIP lines and 42 tri-coloured physical keys (106 DSS keys) makes it ideal for the Reception as an Operator Console, it's enhanced LCD side colour display can show wallboard information, perfect for the Supervisor.

The E50 has enhanced features such as Built-in Bluetooth and is wireless compatible (via Wi-Fi dongle), the main LCD screen can even receive SIP video from door entry and CCTV systems.

## Phone Features

- Local Phonebook (2000 entries)
- Cloud Phonebook
- Call logs (in/out/missed, 1000 entries)
- Black/White List Call Filtering
- Screen Saver
- Voice Message Waiting Indication (VMWI)
- Programmable DSS/Soft Keys
- Network Time Synchronization
- Built-in Bluetooth 2.1: Bluetooth Headset Support
- Support Wi-Fi Dongle
- Wireless Headset Support (EHS)
- Action URL / Active URI
- Widget Wallboard Display



## Call Features

- 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 (on server)
- 3-way Conference
- Hot Line
- Hot Desking



## Physical Specifications

- Main LCD x 1: 4.3" (480x272) Colour Screen LCD
- DSS Key-mapping LCD x 2: 3.5" (320x480) Colour Screen LCD
- Keypad: 77 Keys, including
  - › 4 Soft-Keys
  - › 6 Function keys (Hold, Call Forward, Phonebook, MWI, Headset, Redial)
  - › 4 Navigation Keys
  - › 1 OK Key
  - › 1 Return Key
  - › 12 Standard Phone Digits Keys
  - › 3 Volume Control Keys, Up/Down/Mute (Microphone)
  - › 1 Hands-Free Key
  - › 42 DSS/BLF/Function Keys with Tri-Colour LED
  - › 3 Page Switch (PS) Key
- HD Handset (RJ9) x1
- 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)
- USB 2.0 Port x1: Standard A, Connect with Wi-Fi USB Dongle
- DC Power Input: 5V/2A
- Power Consumption: (PoE): 2.6~9W
- Power Consumption: (Adapter): 2.4~8W
- Working Temperature: 0~45
- Working Humidity: 10~95%
- Installation: Desktop Stand
- Colour: Dark Grey
- Device Dimensions
  - Desktop Stand (angles 1): 309 x 214 x 187mm
  - Desktop Stand (angles 2): 309 x 226 x 167mm
  - Box Dimensions: 285 x 270 x 65mm

## Protocols

- SIP2.0 over UDP/TCP/TLS
- RTP/RTCP/SRTP
- STUN
- DHCP
- IPv6
- LLDP
- PPPoE
- 802.1x
- L2TP
- OpenVPN
- SNTP
- FTP/TFTP
- HTTP/HTTPS
- TR-069

## Generic

- 20 SIP Lines
- HD Voice
- Support Receiving Video Call
- POE Enabled
- 3 LCDs (Main + DSS)
- Handset/Hands-Free/Headset Mode
- Intelligent DSS Keys
- Optional External Power Supply

## Networking

- Physical: 10/100/1000Mbps 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 / OpenVPN
- VLAN
- LLDP
- QoS
- RTCP-XR(RFC3611), VQ-RTCPXR(RFC6035)

## 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

## Audio

- HD Voice Microphone/Speaker (Handset/Hands-Free, 0 ~ 7KHz Frequency Response)
- HAC Handset
- Wideband ADC/DAC 16KHz Sampling
- 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)

\* The above specifications may be updated in the future without prior notice. All Hardware, Software & Physical features should be based on the final shipped product.