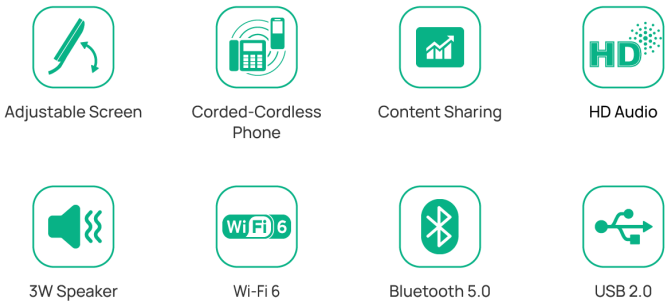
Yealink SIP-T85W Datasheet

Ultra Prime Business Phone to Deliver Optimum Desktop Productivity

Especially designed for busy executives and professionals, the Yealink T85W is a Prime Business Phone featuring an adjustable 5.5-inch color LCD screen for comfortable viewing. The hall switch handset creates a quieter office environment, and Yealink's self-developed AI noise cancellation ensures superior audio quality during calls. With ultra-high-definition sound and support for broadband audio codecs, it provides realistic audio call effects. The built-in Bluetooth 5.0 and dual-band 2.4G/5G Wi-Fi 6 modules keep you updated with the latest technology. Running on a TEE hardware encryption solution, it offers secure storage. The T8X series enhances the Yealink ecosystem, compatible with more Yealink headsets, supporting configuration and upgrades through the LCD, and works with headsets featuring wearing detection for intelligent channel switching.



Key Features and Benefits

- TEE hardware encryption solution
- Dual system function
- Unified firmware for T7X series (T73U, T73W, T74U, T74W, T77U), T85W, and T87W
- Up to 16 SIP accounts
- PoE support
- Support USB headset and EHS
- Built-in Bluetooth, WiFi

- Supports color-screen expansion modules
- One adjustable angle for desktop placement
- Wall mountable
- Handset with hall switch

User Friendly

Yealink T85W IP Phone features an adjustable 5.5-inch color LCD screen that you can readily adjust to a comfortable viewing angle. Regarding audio quality, the T85W is coupled with the latest version of Yealink Optimal HD Voice technologies, including Yealink Acoustic Shield technology, which effectively eliminates background distractions and noises and delivers crystal clear voice even in a noisy environment. Meanwhile, complying with the latest Hearing Aid Compatibility (HAC) Regulations, its HAC handset helps people with hearing loss hear the voice more clearly.

HD Audio

Yealink Optima HD Voice technology combines cutting-edge hardware and software with wideband technology for maximum acoustic performance. Yealink's self-developed AI noise cancellation ensures better audio quality during calls. This open and highly versatile audio codec is designed to deliver superior HD audio quality compared to other wideband codecs, even in high network bandwidth environments.

High Security and Compatibility

Yealink T85W adopts the latest network security technology, supporting SRTP and TLS call encryption, 802.1x media access control, MD5 and MD5-Sess based authentication, AES security profile, and other perfect security protection mechanisms to avoid hacker attacks. It is widely compatible with third-party SIP devices and leading SIP platforms. In addition, T85W supports a dual system function, which can back up your phone system in advance to avoid system crashes caused by upgrade failure, thus providing you with enterprise-level system protection. The T8X series also supports a security center function to ensure your phone is more secure, with high-sensitivity functions and data supporting user individual control and one-click disconnection.

Customizability and Scalability

T85W not only has Gigabit PoE dual network ports for PoE power supply but also features two USB ports. You can choose based on your needs. T85W supports five pages of page turning and can accommodate up to 60 programmable buttons; in addition, T85W can cascade up to 3 color screen expansion units, expanding to 234 programmable buttons to save operation time and achieve efficient office work effectively.

Wireless Transmission

Yealink T85W has a built-in Bluetooth 5.0 module, supports Bluetooth headsets, and can connect to mobile phones via Bluetooth for phone address book matching. To adapt to the upcoming 5G Wi-Fi era, T85W has built-in dual-band Wi-Fi 6. 5G Wi-Fi offers better anti-interference and faster speed, allowing you to be one step ahead in the busy data torrent. Additionally, T85W can be used with the Yealink video conferencing soft terminal to share content from the computer to the remote end, providing the ultimate content-sharing experience.

TEE Hardware Encryption Solution

T85W uses the TEE hardware encryption solution, which can provide you with a more secure data storage experience.

Specifications

Specifications	Description
Audio Features	• HD voice: HD handset, HD speaker • Hearing aid compatible (HAC) handset • Acoustic Shield • Smart Noise Filtering • Audio codec: AMR-WB (optional), G.722 • Narrowband codec: AMR-NB (optional), PCMU (G.711μ), PCMA (G.711A), G.723.1, G.729, G.729A, G.729B, G.729AB, G.726, iLBC • DTMF: In-band, Out-of-band (RFC 2833) and SIP INFO • Full-duplex hands-free speakerphone with AEC

	• VAD, CNG, AEC, PLC, AJB, AGC
Display and Indicator	• 5.5" 960 x 480 resolution screen • 16 bit depth color • LED for call and message waiting indication • Dual-color (red or green) illuminated LEDs for line status information • Intuitive user interface with icons and soft keys • Multilingual user interface • Caller ID with name, number, and photo • Wallpaper • Screensaver • Supports both dark and light themes
Phone Features	• 16 VoIP accounts • One-touch speed dial, hotline, mute, DND • Call hold, call forward, call waiting, call transfer • Group listening • Emergency call • Redial, call return, auto answer • 10-way conferencing • Direct IP call without SIP proxy • Ring tone selection/import/delete • Set date time manually or automatically • Dial plan, XML Browser, action URL/URI • RTCP-XR • XML Browser, XML Push • Custom DSS Key • Accessibility features
Corded-Cordless Phone (via DECT Dongle DD10K)	• Up to 4 DECT cordless handsets • Up to 4 concurrent calls • Support Yealink W73H/W53H/W56H/W59R/DDPhone/CP930W • Slave Handset for Master Deskset
Directory	• Local phonebook up to 1000 entries • Blocklist • XML/LDAP remote phonebook • Smart dialing • Phonebook search/import/export • Call history: all records/dialed/received/missed/forwarded

IP-PBX Features	• Busy Lamp Field (BLF), Bridged Line Appearance (BLA) • Anonymous call, anonymous call rejection • Message Waiting Indicator (MWI) • Voice messages, call parking • Call pickup, intercom, multicast • Music on hold • Call recording, mobile office, chief assistant • Server-based recording function • Visual mailbox user interface
Feature keys	• 12 linekeys with LED buttons (up to 60 dsskeys, 5 pages) • 4 touch buttons: message, headset, mute, pagination (mute/headset/pagination button with indicator light) • 4 function keys: call hold, call transfer, redial, hands-free • 2 volume adjustment buttons • 6 navigation keys
Interface	• Dual-port Gigabit Ethernet • 2 x USB port (Type-USB A, Type-USB C) - USB flash drive - Connecting a USB headset - Connecting to the color screen expansion station - Wireless Headset Adapter EHS40 •1 x Security keyhole • 1 x RJ9 (4P4C) handset port • 1 x RJ9 (4P4C) headset port • 1 x 5V power port • Dual USB ports (2.0 compliant) - Support Yealink Bluetooth headset BH71/BH71 Workstation/BH71 Workstation Pro/BH72/BH76/UH38 through BT51 - DECT wireless headset (Yealink WH62 Portable/WH63 Portable) - USB call recording through USB flash drive - USB headset - Expansion Module EXP55 - Wireless Headset Adapter EHS40 • USB/Bluetooth connectivity to Yealink CP900/CP700 speakerphone/wireless headset UH38, USB connectivity to

	Yealink wired headset UH34/UH36/UH37: - Basic functions: answer/end, call mute - Enhanced function: audio optimization, redial, call hold, volume synchronization, multiple call control
Management	• Configuration: browser/phone/auto-provision • Auto provision via FTP/TFTP/HTTP/HTTPS for mass deployment • Auto-provision with PnP • Broadsoft device management • Zero-Sp-Touch, TR-069 • Phone lock for personal privacy protection • Reset to factory, reboot • Package tracing export, system log • Support Yealink Device Management Platform (YDMP/YMCS)
Network and Security	• Built-in Dual-Band Wi-Fi: - Network standard: IEEE802.11a/b/g/n/ac/ax - Frequency band: 2.4GHz/5.0GHz • Built-in Bluetooth 5.0: - Connecting Bluetooth Headset - Connect your phone - Connect headphones and phone at the same time - Connect to PC as PC peripheral • IPv4/IPv6 • SIP v1 (RFC2543), v2 (RFC3261) • Call server redundancy supported • NAT traversal: STUN mode • Proxy mode and peer-to-peer SIP link mode • IP assignment: static/DHCP • HTTP/HTTPS web server • Time and date synchronization using SNTP • UDP/TCP/DNS-SRV(RFC 3263) • QoS: 802.1p/Q tagging (VLAN), Layer 3 ToS DSCP • Support SRTP protocol • Support TLS1.3 • HTTPS Certificate Management • Configuration file encryption (AES256)

	• Supported authentication mechanisms: MD5/SHA1/SHA224/-SHA256/SHA384/SHA512 • OpenVPN, IEEE802.1X, L2TP VPN • LLDP/CDP/DHCP VLAN • ICE • WPA2/WPA3 • Secure Boot • GARP (Generic Attribute Registration Protocol) • TEE hardware encryption solution
Other Physical Features	• Color: Classic Grey • Wall mountable (optional) • External Yealink AC adapter (optional): AC 100~240V input and DC 5V/2A output • USB output current: 5V/1A • Power consumption (PSU): 1.68 W-2.06 W • Power consumption (PoE): 1.537 W-2.44 W • Dimension (W*D*H*T): 258.73 mm*176.3 mm*224.38 mm*39.1 mm • Operating humidity: 10 - 95% • Operating temperature: -10 to 45°C (+14 to 113°F) • Storage temperature: -30 to +70°C (-22 to +158°F)
Package Features	• Package content: - Yealink SIP-T85W IP phone - Handset with handset cord - Ethernet Cable (2m CAT5E UTP Cable) - Stand - Quick Start Guide - Power Adapter (Optional) - Wall Mount Bracket (Optional) • Qty/CTN: 3 PCS • N.W/CTN: 4.154 kg • G.W/CTN: 4.636 kg • Giftbox size: 285 mm*253 mm*104 mm • Carton Meas: 324 mm* 260 mm*300 mm
Compliance	