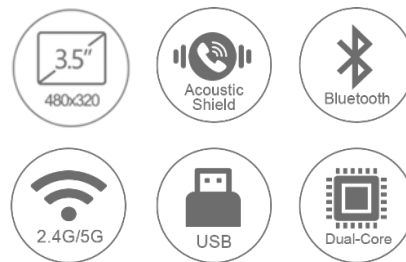


# Enterprise HD IP Phone

## —Wi-Fi/Bluetooth IP Phone TS\_TOPG

TS\_TOPG is an innovative Gigabit color IP phone with built-in Bluetooth module and dual-band Wi-Fi (2.4G/5G) module, covering all scenes. Its USB2.0 interface allows you to connect an external USB flash drive, which greatly expands the storage space of the IP Phone. Up to 6 expansion modules can be connected. It supports up to 5-way conference. TS\_TOPG is optimized for executive use for major decision makers, administrative assistants and those working with bandwidth-intensive application on collocated PCs. Programmable keys could be configured as IP PBX features like BLF, SCA, Intercom, Call Park and many other features. The high-resolution TFT-LCD and HD Voice bring you the lifelike visual and audio experience.



### Key Features and Benefits

#### 1. HD Audio

TS\_TOPG not only upgrades its hardware such as handset, hands-free components and headset, but also supports Opus and other sound codecs, creating a clearer voice, and achieving HD sound quality under different network bandwidths. Moreover, TS\_TOPG adopts the latest acoustic shield technology, which effectively eliminates environmental noise, making remote communication close at hand and helping your team to more smoothly.

#### 2. Industry-leading Connectivity

TS\_TOPG has a built-in Bluetooth 4.2 module and supports Bluetooth headsets. Meanwhile, to greet the 5G Wi-Fi era, TS\_TOPG has built-in dual-band 2.4G/5G Wi-Fi. 5G Wi-Fi has better interference immunity and faster transmission speed, helping you break through the data flood dilemma and enter the "fast lane".

#### 3. Powerful Expansibility

TS\_TOPG integrates a USB 2.0 interface, which can be used for U disk storage and USB headset. It has Dual-port Gigabit Ethernet and supports PoE, making network connections more flexible and convenient; it also can connect up to 6 color-screen expansion modules UC46 which can be programmed with up to 240 paperless DSS keys, supports wall hanging to meet user needs in different scenarios.

#### 4. High Security and Wide Compatibility

TS\_TOPG supports SRTP and TLS which is the latest network security technology. It is widely compatible with third-party SIP devices and leading SIP platforms, such as 3CX, Broadsoft, NetSapiens. Furthermore, TS\_TOPG is equipped with a dual firmware images function, which can prevent system crashes caused by upgrade failures and provide you with carrier-class system protection.

- 3.5" 480\*320-pixel color display with backlight
- 12 SIP accounts, 8 feature keys, 8 line keys
- Support up to 28 paperless DSS keys
- Acoustic shield technology
- Dual core CPU
- Dual firmware images
- Support EHS30
- Support expansion modules
- Local phonebook up to 10000 entries
- Dual-port Gigabit Ethernet, PoE support
- 1 x USB Port (2.0 compliant) for more functions
- Built-in Bluetooth 4.2
- Built-in dual band 2.4G/5G Wi-Fi
- Local phonebook up to 10000 entries

## Phone Features

- 12 SIP accounts
- Call hold, mute, DND
- One-touch speed dial, hotline
- Call forward, call waiting, call transfer
- Redial, call return, auto answer, direct IP call
- 5-way conferencing
- Group listening, SMS, emergency call
- Ring tone selection/provisioning
- Set date time automatically or manually
- Dial plan for each account
- RTCP-XR (RFC3611), VQ-RTCPXR (RFC6035)
- Action URL/URI
- USB port (2.0 compliant) for:
  - USB call recording through USB flash drive
  - USB storage (screen saver, wallpaper)
  - USB headset

## Audio Features

- HD Voice: HD Speaker, HD Handset, HD codec
- Codecs: iLBC, G.722, G.711(A/μ), Opus, G.723.1, G.729AB, G.726-32, G.722.1
- DTMF: In-band, RFC 2833, SIP INFO
- Full-duplex hands-free speakerphone with AEC
- AEC, VAD, AGC, CNG, PLC, AJB

## Directory

- Local phonebook up to 10000 entries
- XML/LDAP remote phonebook
- Intelligent search method
- Phonebook search/import/export
- Call history: dialed/received/missed/forwarded
- Black list

## IP-PBX Features

- Busy Lamp Field (BLF)
- Bridged Line Appearance (BLA)
- Anonymous call, anonymous call rejection
- Voice mail
- Intercom, paging
- Call park, call pickup
- Music on hold
- Hot-desking
- Flexible seating
- Call recording

## Management

- Configuration: browser/LCD-Menu/auto-provision
- Auto provision via HTTP/HTTPS/FTP/TFTP
- Auto-provision with PnP
- Reset to factory, reboot
- Local tracing log export, system log
- Phone lock for personal privacy protection

## Display and Indicator

- 3.5" 480\*320-pixel color display with backlight
- 24 bit depth color
- LED for call and message waiting indication
- Dual-color(red or green) illuminated
- LEDs for line status information
- Wallpaper, multi-language selection
- Intuitive user interface with icons and soft keys
- Caller ID with name, number and photo

## Feature keys

- 8 line keys with LED
- 8 line keys can be programmed up to 28 Paperless DSS keys (4-page view)
- 8 feature keys: voice mail, headset, mute, speaker, conference, hold, transfer, redial
- 4 context-sensitive soft keys
- 6 Navigation keys(include cancel key) and volume control keys

## Interface

- Dual-port Gigabit Ethernet
- Power over Ethernet (IEEE 802.3af), class 3
- IEEE 802.3az Green Energy Efficient Ethernet
- 1xRJ9 (4P4C) handset port
- 1xRJ9 (4P4C) headset port
- 1 x RJ12 (6P6C) EXT port
- Support EHS
- Support up to 6 Expansion Modules
- 1xUSB Port(2.0 compliant)

## Physical Features

- Stand with 2 adjustable angles
- Wall mountable
- External universal AC adapter : AC 100~240V input and DC 5V/1.2A output
- Power consumption (PSU): 2.0~4.6W
- Power consumption (PoE): 2.5~5.5W
- Operating humidity: 10~95%
- Operating temperature: -10~50°C

## Wi-Fi/Bluetooth

- Built-in dual band Wi-Fi:
  - Network Standard: IEEE802.11a/b/g/n/ac
  - Transmission Rate: Up to 433 Mbps
  - Frequency Range: 2.4GHz/5GHz
- Built-in Bluetooth:
  - Bluetooth specification: V4.2+HSsystem
  - Enhanced Data Rata (EDR) compliant for both 2Mbps and3Mbps supported
  - Bluetooth frequency range: 2.402GHz-2.480GHz

- Compatible with Bluetooth specification V4.2,
- Backward compatible with Bluetooth1.1 1.2 2.0 and 3.0 for wide-ranging use

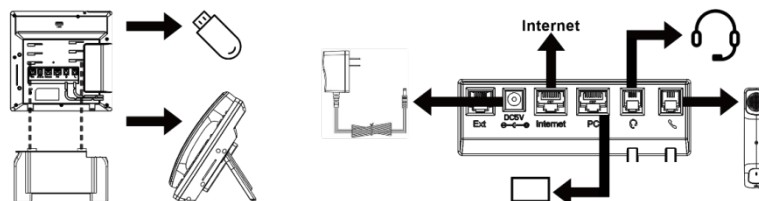
## Network and Security

- SIP v1 (RFC2543), v2 (RFC3261)
- SIP server/proxy redundancy
- NAT Traversal: STUN mode
- IP assignment: static/DHCP
- HTTP/HTTPS web server
- Time and date synchronization using SNTP
- DNS-NAPTR/DNS-SRV(RFC 3263)
- QoS: 802.1p/Q tagging (VLAN), Layer 3 ToS DSCP
- Transport Layer Security(TLS1.2), SRTP, ZRTP
- HTTPS certificate manager
- AES encryption for configuration file
- Digest authentication using MD5/MD5-sess
- IEEE802.1X/OpenVPN
- IPv4/IPv6, LLDP/CDP/DHCP VLAN

## Package Features

- Package content:
  - Phone Device\*1pcs
  - Footstand\*1pcs
  - Handset\*1pcs
  - Handset Cord\*1pcs
  - Ethernet Cable\*1pcs
  - Quick Reference Manual
  - Power Adapter (Optional)
- Qty/CTN:10pcs
- N.W/CTN:13.76kg
- G.W/CTN:15.01kg
- Phonebox Size: 245mm(L)\*225MM(W)\*100MM(H)
- Carton Meas:525mm(L)\*510mm(W)\*245mm(H)

## Compliance



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