

## FANVIL i21/i21T SIP Door Phone

### A SIP door phone for outdoor conditions

The design of i21/i21T Sip Door phone are based on experience and knowledge of Fanvil IP phone development. i21/i21T are using standard IP/RTP/RTSP protocol for voice transmission and enjoy the advantages of full range of compatibility. i21/i21T have a variety of enterprise-level features and compatible with lots of major platforms, such as 3CX, Asterisk, Broadsoft, Elastix, etc.

Outdoor equipment is often being damaged by water, hit, slurry, etc. In order to protect the door phones from damage, i21/i21T are made of high strength stainless steel with cast iron bottom and have non-removable hexagon screws to protect the surface shell from being removed. This structure can effectively prevent the i21/i21T from rain, water spraying, dust and reduce man-made damage. Its impact resistant level is up to IK10 standard. Besides, its water-proof and dust-proof level is up to IP65. i21/i21T adopt advanced DSP noise reduction algorithms and techniques of omnidirectional sound pickup. During calls, i21/i21T can effectively cancel background noise. At the same time, it also can optimize the distance of pickups, which guarantees high voice quality in any case and provides good experience for users.



i21

i21T

#### Highlights

- ✓ Integrate background noise reduction, high-quality audio communication
- ✓ Dusty free on the stainless panel, water proof followed by IP65, and mechanical design for IK10 approval
- ✓ A quick dial button and backlit keyboard
- ✓ All in ONE-door access, intercom and paging service

#### Generic

- 2 SIP Lines
- POE Enabled
- Full-duplex speakerphone (HF)
- Numeric keypad (Dial pad or Password input) (i21T only)
- Intelligent DSS Keys (Speed Dial)
- Wall-mount installation
- Integrated Noise Reduction
- Omnidirectional pickup
- Integrated indoor switch gear
- Integrated one Relay
- External Power Supply
- Access control-by call, code
- All-in-one door access, Intercom and Paging Service
- Industrial Standard Certifications: IP65, IK10, CE/FCC

#### Call Features

- Intercom
- Speed Dial

- Auto-Answering (per line)
- Voice Message (on server)
- Local 3-way Conference
- Hot Line

#### Phone Features

- Call log (900 entries, in/out/missed)
- Open Door Log
- Access Table (300 entries)
- Programmable DSS/Soft keys
- Network Time Synchronization
- Action URL / Active URI

#### Audio

- Narrowband CODEC: G.711a/u, G.723.1, G.726-32K, G.729AB
- Wideband CODEC: G.722
- Full-duplex Acoustic Echo Cancellation (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
- Omnidirectional pickup: pickup distance 5 m

### Networking

- Physical: RJ45 Ethernet Jacket x2: Network x1 (802.3AF POE Enabled), LAN x1 (Bridged to Network)
- 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

- Auto-Provisioning via FTP/TFTP/HTTP/HTTPS/DHCP/TR069/SIP PNP
- Web Management Portal
- Web-based Packet Dump
- Configuration Backup/Restore
- Entry Log Export
- Access Table Export/Import
- Firmware Upgrade
- Syslog (include Open Door Log)

### Physical Specifications

- Keypad: 13 keys, including
- 12 Standard Phone Digits keys (i21T only)
- 1 Hands-free key or DSS Keys (Speed Dial)
- RJ45 Ethernet Jacket x2: Network x1 (802.3AF POE Enabled), LAN x1 (Bridged to Network)
- PoE: 802.3af (Class 0 - 12.95W) 48V/380mA
- Main Chipset: Broadcom
- Passive Switch: Normally Open and Normally Closed highest at 30V/1A AC/DC
- Active Switched Output: 12V/500mA DC
- Audio Amplifier: 2.5W
- Cables: CAT5 or better
- Power Supply: 12V+-15%/1A DC or PoE
- Shell Material: Aluminum Cove, Plastic back case
- Protection level: IP65 and Ik10
- Working Temperature: -40~70°C
- Storage Temperature: -40~70°C
- Working Humidity: 10~90%
- Overall Dimension: 230 x 125 x 76mm (W x H x L)
- Package Dimensions: 310x175x115mm (W x H x L)
- Package Weight: 2.2 KG (i21T) 2.1KG (i21)

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. Customers should consult Fanvil's retailers, distributors, or Fanvil directly, if customers have concerns on any feature.

For more information, please visit: [www.fanvil.com](http://www.fanvil.com)

### Company Profile:

Fanvil Technology Co., Ltd. is a professional developer and manufacturer of VoIP products. Fanvil provides VoIP communication devices solutions for small and medium sized businesses, as well as large mission-critical enterprise environments.

