

# FANVIL i20T SIP Door Phone

## A SIP door phone for indoor conditions

The design of i20T Sip Door phone are based on experience and knowledge of Fanvil IP phone development. i20T are using standard IP/RTP/RTSP protocol for voice transmission and enjoy the advantages of full range of compatibility. i20T have a variety of enterprise-level features and compatible with lots of major platforms, such as 3CX, Asterisk, Broadsoft, Elastix, etc. The i20T SIP door phone is designed for operation in indoor conditions. The robust mechanical construction offers protective coverage rating against dust and water (IP54). The i20T is economical devices with four function (All in 1)- Access control by call, code, RFID card, and indoor switch.



### Highlights

- ✓ High-quality audio communication
- ✓ A quick dial button and backlit touch keypad
- ✓ Access control-by call, code, RFID card, indoor switch
- ✓ Door access, intercom

### Generic

- 2 SIP Lines
- PoE Enabled
- Full-duplex speakerphone (HF)
- Numeric keypad (Dial pad or Password input)
- Intelligent DSS Keys (Speed Dial/intercom etc)
- Embedded installation
- Integrated RFID Card reader
- Integrated indoor switchgear
- Integrated one Relay
- External Power Supply
- Access control-by call, code, RFID card, indoor switch
- Industrial Standard Certifications: IP54, 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 Logs (200,000 records max)
- Access Table (500 entries max)

- Support RFID Card issues (500 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 Canceller (AEC) – Hands-free Mode, 96ms tail-length
- Voice Activity Detection (VAD) / Comfort Noise Generation (CNG) / Background Noise Estimation (BNE)
- Packet Loss Concealment (PLC)
- Dynamic Adaptive Jitter Buffer up to 300ms
- DTMF: In-band, Out of Band (RFC2833) / SIP INFO

### Networking

- Physical: 10/100M RJ45 Ethernet interface (802.3af PoE Enabled)
- 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/SIP PNP/TR069
- Web Management Portal
- Web-based Packet Dump
- Configuration Backup/Restore
- Open Door Export
- Access Table Export/Import

- Firmware Upgrade
- Syslog (include Door log)

### Physical Specifications

- Keypad: 13 keys, including 12 Standard Phone Digits keys
- 1 Hands-free key or DSS Key (Speed Dial)
- 1 10/100M RJ45 Ethernet interface (802.3af PoE Enabled)
- PoE: 802.3af (Class3 6.95 - 12.95W) 48V/380mA
- Main Chipset: Broadcom
- Passive switch (relay): Normally open/Normally close; support 30V DC/1A, 125V AC/0.3A max
- Active Switched Output: 12V DC/750mA
- Audio Amplifier: 1.5W
- Cables: CAT5 or better
- Power Supply: 12V/1A DC or PoE
- RFID/IC Card: EM-4100 /TK4100 (125KHz)
- Shell Material: Aluminum alloy panel, Plastic bottom shell
- Protection level: IP54
- Working Temperature: -40~70°C
- Storage Temperature: -40~70°C
- Working Humidity: 10~90%
- Overall Dimension: 174.5 x 96 x 63mm (L x W x H)
- Package Dimensions: 235x140x98mm (L x W x H)
- Package Weight: 0.6 KG

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.

