

## i20S IP Door Phone

The design of i20S IP Door phone is based on experience and knowledge of Fanvil IP phone development. i20S are using standard IP/RTP/RTSP protocol for voice transmission and enjoy the advantages of full range of compatibility. i20S have a variety of enterprise-level features and compatible with lots of major platforms, such as 3CX, Asterisk, Broadsoft, Elastix, etc.

The i20S IP door phone is designed for operation in indoor conditions. The robust mechanical construction offers protective coverage rating against dust and water (IP65).

The i20S is economical devices with triple function(All in 1)- Access control DTMF, Password, RFID/IC card and Indoor Switch



### Highlights

- ✓ Compatible with standard SIP(RFC3261) protocol and main IPPBX/IMS platform.
- ✓ Access Control( DTMF, Password, RFID/IC car, Indoor Switch)
- ✓ All-in-One(Access Control, Intercom and Broadcasting)
- ✓ Built-in 3W speaker and AEC, support high quality hand-free communication.
- ✓ Status indication icon
- ✓ System online maintenance and management

### Generic

- 2 SIP Lines
- PoE Enabled
- Duplex speakerphone (HF)
- Intelligent DSS Keys (Speed Dial)
- Wall-mounting
- Integrated RFID/IC Card reader
- Integrated indoor switchgear
- Integrated one Relay
- External Power Supply
- All-in-One: Access Control, Intercom and Broadcasting
- Access control-DTMF, Password, RFID/IC card, Indoor Switch
- Industrial Standard Certifications: IP65, CE/FCC

### Call Features

- Intercom
- Speed Dial
- Auto-Answering (per line)

### Door Phone Features

- Open Door Log (200 thousand)
- Access Table (5000 entries)
- Support RFID/IC Card issues (5000 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
- Duplex intercom with Acoustic Echo Cancellor (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 – DTMF-Relay (RFC2833) / SIP INFO

### Networking

- Support PoE
- IP Configuration: Static / DHCP / PPPoE
- Network Access Control: 802.1x
- VPN: OpenVPN/L2TP
- VLAN: 802.1p/q
- QoS: DSCP

### Protocols

- SIP2.0 over UDP / TCP / TLS
- RTP / RTCP /SRTP
- STUN
- DHCP
- PPPoE
- 802.1x



- Open VPN
- SNTP
- FTP / TFTP
- HTTP / HTTPS
- TR069

### 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 door access logs)

### Physical Specifications

- 1 DSS Key
- 12 Numeric keypad
- WAN: 10/100BASE-Tx, Auto-MDIX, RJ-45

- Passive Switch(short-circuit output): NC/NO Contacts, DC30V / 1A, AC125V / 0.5A
- Active Switch output: 12V/500mA DC
- RFID/IC Card: ID (EM4100,125KHz) & IC(MIFARE ONE,13.56MHz)
- 1 Indoor door interface
- Main Chipset: Broadcom
- Speaker: 4Ω/3W
- Cables: CAT5 or better
- Power Supply: 12V/1A DC or PoE
- Shell material: Metal panel, ABS sump
- Protection level: IP65
- Working Temperature: -10~60°C
- Storage Temperature: -40~70°C
- Working Humidity: 10~90%
- Qty/CTN: 10 PCS
- N.W/CTN: 4.6kg
- G.W/CTN: 5.12kg
- Device Dimension: 160 x 93 x 35mm
- Package size: 209 x 118 x 64mm
- CTN Size: 340 x 250 x 224mm

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. (Fanvil) is a leading global provider of Audio& Video- IoT devices with three R&D centers in Beijing, Shenzhen, and Suzhou, China, and three factories in Huizhou, China, Shangrao, China, and Vietnam. Fanvil provides A&V-IoT devices including SIP phones and SIP security industry products, which are widely used in smart city, smart transportation, smart education, smart healthcare, etc.

