i21 SIP Door Phone

1、Description

Fanvil i21 Sip door phone- IP intercom offers a smart and effective solution for secure access control and monitoring of a building entrance. Voice transmission is provided by standard IP/RTP/RTSP protocols, which guarantee the best compatibility and integration with third-party IP systems.

The i21 SIP door phone is designed for operation in the most demanding conditions. The robust mechanical construction offers the highest protective coverage rating against dust and water (IP65) and protection against mechanical damage (Ik10). Numerous deluxe features of the i21 SIP door phone provide high user comfort and guarantee secure access control for any outdoor conditions.

2、Basic Function

- SIP V1/V2(RFC2543/RFC3261) and P2P Protocol
- High level of comprehensibility and high volume in noisy environment
- Maximal resistivity against dust, water, and mechanical damage
- A quick dial button and backlit touch keyboard
- Support G.711,G.729,G.722,G.729 etc. Codec voice intercom；
- Unlock function (swipe or communication)
- Visitor leave message；
- Calling indoor extension for two-way conversation；
- Software upgrading on line；
- WEB remote management of Terminal malfunction or status；

3、Target Groups

- Business: offices, shopping areas
- Education: universities, campuses, schools, sports areas
- Healthcare: hospitals laboratories Pharmaceutical factory
- Logistics & Transportation: airports, parking lots or garages
- Industries: factories product center

Fanvil Technology Co., Ltd
深圳方位通讯科技有限公司

HQ Add: Level 3, Block A, Gaoxinqi Building, Anhua Industrial Park, Qianjin 1 Road, 35th District, Bao'An, Shenzhen, 518101 P.R. China
地址：深圳市宝安35区前进一路安华工业区高新奇大厦A座三楼，518101

Tel: +86-755-2640-2199   Fax: +86-755-2640-2618   Email: fanvil@fanvil.com   www.fanvil.com
Beijing Tel:+86-10-5753-6809   Suzhou Tel: +86-512-6592-0605   SEA Tel: +60-3-203-50737
www.voipon.co.uk sales@voipon.co.uk Tel: +44 (0)1245 808195 Fax: +44 (0)1245 808299

4、Specification

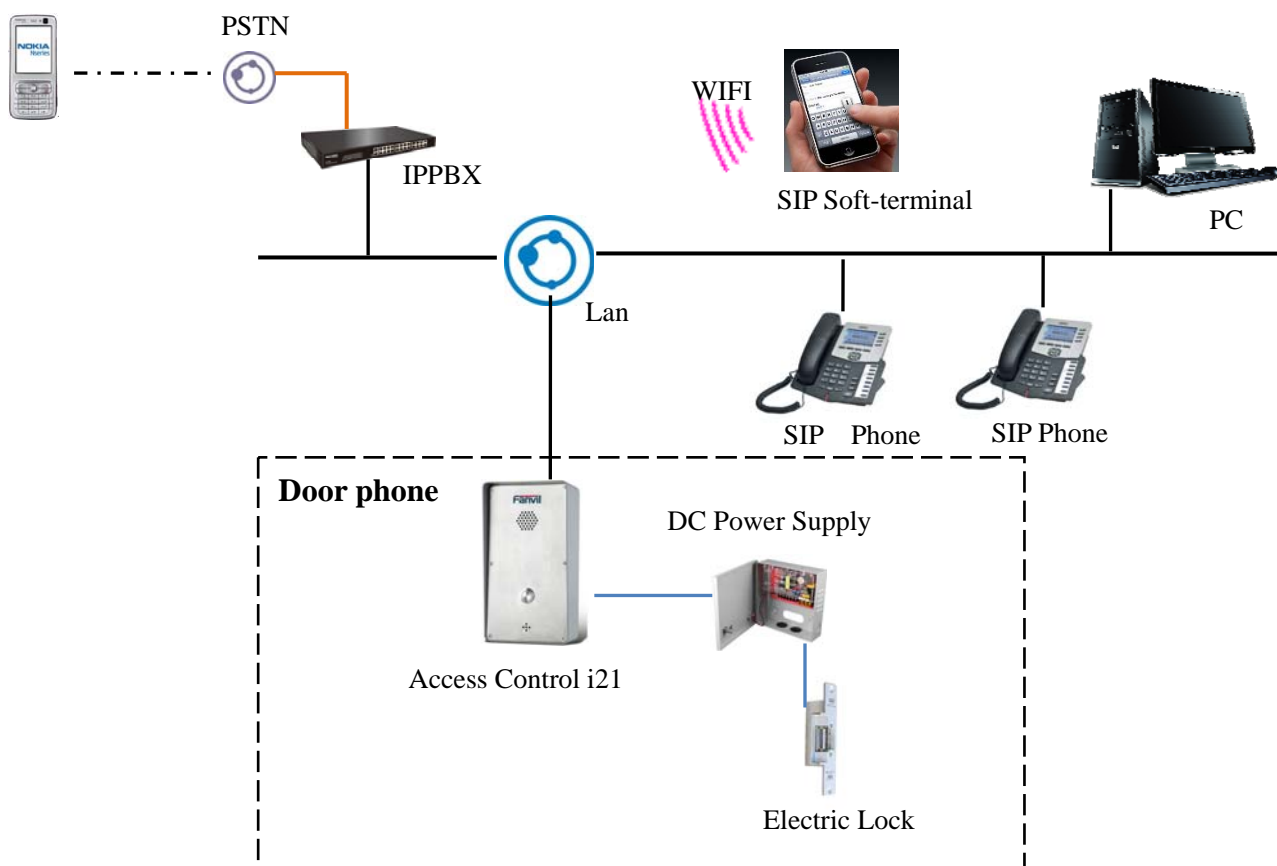|		
Communication protocol		SIP 2.0(RFC-3261)
Master Chip		Broadcom 1190
Keys	**Design**	Stainless steel
	Direct-button	1
	Numeric Keypad	Not support
Voice	**Microphone**	1
	Amplifier	1.5W
	Speaker	1.5W
	Volume Control	Adjustable
	FDSP	Support(AEC)
Voice stream	**Supportable Protocol**	RTP
	CODEC	G.711, G.729
Port	**Power Supply**	12V+-15%/1A DC or PoE
	PoE	PoE 802.3af (Class 0 - 12.95W) 48V/380mA
	LAN	10/100BASE-TX s Auto-MDIX, RJ-45）
	Cables	HSYV or better
	Passive Switch	Normally Open and Normally Closed highest at 30V/1A AC/DC
	Active Switched Output	12V/500mA DC
RFID/IC Card Reader	**EM-40XX (125Khz)**	Optional
Structure	**Shell Material**	Aluminum Cover、Plastic back case
	Operating Temperature	-40°C to 70°C
	International Protection	IP65 and Ik10
	Working Condition Relative Humidity	10% - 95%
	Storage Temperature	-40°C to 70°C
	Installation	wall mounted
	Size	Overall Dimension：230×125×76 mm

Fanvil Technology Co., Ltd
深圳方位通讯科技有限公司

HQ Add: Level 3, Block A, Gaoxinqi Building, Anhua Industrial Park, Qianjin 1 Road, 35th District, Bao'An, Shenzhen, 518101 P.R. China
地址：深圳市宝安35区前进一路安华工业区高新奇大厦A座三楼，518101

Tel: +86-755-2640-2199   Fax: +86-755-2640-2618   Email: fanvil@fanvil.com   www.fanvil.com
Beijing Tel:+86-10-5753-6809   Suzhou Tel: +86-512-6592-0605   SEA Tel: +60-3-203-50737
www.voipon.co.uk sales@voipon.co.uk   Tel: +44 (0)1245 808195 Fax: +44 (0)1245 808299

5、Schematic Diagram

Housing

Speaker

Intercom

Mic

www.voipon.co.uk sales@voipon.co.uk   Tel: +44 (0)1245 808195 Fax: +44 (0)1245 808299

6.System CompositionDiagram

System Composition Diagram

- Web Business Management

    It is mainly used for remote management i21 voice access device, which includes such features as the device parameter management, access control parameter settings, card, log management.

- Access Control

    Access control is consist of i21 voice access control, exclusive DC power supply and electric lock . Inside of i21 , self-powered electric lock can directly drive the starting current of 500mA power locks; additionally you can also access exclusive external DC power supply and the voice access output control signals , to drive electric lock on and off by access exclusive DC power.

- Intercom function

    i21 voice intercom system consists of i21- access control, SIP phones, phones installed SIP soft-terminal, IPPBX . i21 Voice Access supports standard SIP protocol, and has good system compatibility with main IPPBX in the market.

www.voipon.co.uk sales@voipon.co.uk   Tel: +44 (0)1245 808195 Fax: +44 (0)1245 808299

7 、Functions

Functions			Application
Software Functions	**Intercom**	Resident voice intercom	Intercom between residents and visitors
	Open the door	Remote Door	Both Sip terminals and phones can open the door when ring or speak
		Swipe	Swipe at RF ID area, the door will be open after valid confirmation
	Timeout Handling	Calling Timeout	When calling timeout, the terminal does not answer, the I21 Voice Access automatically hang up
		Conversation timeout	When conversation between i21 voice access and terminal is timeout, I21 automatically hang up
	Incorrect handling	Fault Tips	Equipment failure, the speaker needs to have tips
	Property management	Front Monitoring	If monitoring function activate , the user terminal can hear the voice situation of door
	Terminal Management	Query and device settings	Remote checking and setting device parameters and status via internet
		Running Log	I21 Record device running logs
	Project maintenance	I21 Setting function	During installation and commissioning, you can set up the device through the key parameter
	Network Access Request	Access to Internet	When equipment power on, select 2 ways to access to internet(dynamic or static IP)
		Access to IPPBX	According to user SIP account and password , Device registered on the specified IPPBX
Hardware function	Keys		Support Talkback（1 or 2 buttons）
	RFID Card reader (Optinal)		For swiping to open the door
	Speaker		For intercom audio, voice prompts, the alarm tone or an error, success prompt
	Microphone		Visitor's voice input
	Door lock Controller		Control on/off of lock(Initially output switch control signal only
	Ethernet Port		Debug connection to internet and lan，support POE power-up
	Power Port		Input 12V , power supply for I21

	Indicator	Indicate status of I21 Access Control
	Function Jumper	Setting output mode of door lock
	Reset	Press * (on the motherboard) button for 5 seconds to restore factory settings
	Voice Reporting No.	Press # (on the motherboard) button for 5 seconds, to start voice reporting IP function
Physical Function	Waterproof	Splashing to panel does not affect the normal operation of the system
	Operating Temperature	-40～70 Degree

www.voipon.co.uk sales@voipon.co.uk   Tel: +44 (0)1245 808195   Fax: +44 (0)1245 808299