



# **A11(0) IP Phone User Manual**

Version: 1.0

2015-10-15

# Content

<b>Contact ATCOM.....</b>	<b>4</b>
<b>Overview of ATCOM.....</b>	<b>4</b>
<b>1. Overview of A11(0).....</b>	<b>5</b>
1.1 Interfaces.....	5
1.2 Hardware.....	5
1.3 Software.....	6
1.4 Network.....	6
1.5 Management and Maintenance.....	6
1.6 Protocol.....	6
1.7 Compliant and Authenticated Standard.....	7
1.8 Packing List.....	7
1.9 Installation.....	7
<b>2. Keypad of IP Phone.....</b>	<b>14</b>
2.1 Describe of the buttons and Screen.....	14
2.2 Describe of the LCD Screen Icons.....	15
<b>3. Basic functions and operations.....</b>	<b>17</b>
3.1 Answer the calls.....	17
3.2 Make Call.....	17
3.3 Pre- dial.....	18
3.4 Hang up the phone.....	18
3.5 Call Transfer.....	19
3.6 Voicemail.....	19
3.7 Mute calls.....	19
3.8 Call Hold.....	19
3.9 3-Way Conference Call.....	19
3.10 Call History.....	20
3.11 Default Password.....	20
3.12 Check the Phone's IP address.....	21
3.13 Dial Plan.....	21
<b>4. Web settings.....</b>	<b>23</b>
4.1 System status.....	23
4.2 Network.....	24
4.2.1 Basic.....	24
4.2.2 Wi-Fi.....	24
4.2.3 Advance.....	25
4.3 SIP Setting.....	27
4.4 Account.....	29
4.5 Phone Setting.....	32
4.5.1 Preference.....	32
4.5.2 Features.....	34
4.5.3 Voice.....	35
4.5.4 Ring.....	35
4.5.5 Tone.....	36
4.6 Update.....	37
4.6.1 Manual Update.....	37

---

4.6.2 Update/Auto Provision.....	37
4.6.3 Reset & Reboot.....	38
4.7 Phone Book.....	38
4.8 Call Log.....	39
<b>5. FAQ &amp; Trouble Shooting.....</b>	<b>40</b>
5.1 How to make a factory reset.....	40
5.2 Upgrade firmware under safe mode.....	40
5.3 How to make direct IP call.....	40
<b>6. Trouble Shooting.....</b>	<b>41</b>
6.1 The phone can't register successfully.....	41
6.2 The phone can't obtain IP address.....	41
6.3 Only one part can hear the voice during the call.....	41
<b>7. Abbreviations.....</b>	<b>42</b>

# Contact ATCOM

## Overview of ATCOM

ATCOM is the leading VoIP hardware manufacturer in global market. We have been keeping innovating with customer's needs oriented , working with partners to establish a total solution for SMB VoIP with IP phone , IP PBX and Asterisk cards

With over 10 years' experience of R&D , manufacturing and service in network and VoIP field ; mission of creating the biggest value for IP terminals , we commit ourselves in supplying the competitive IP phone and other terminals for IP PBX , softswitch , IMS , NGN providers and carriers; supplying the competitive total VoIP solution for SMB market. We keep improving the customer's experience and creating the bigger value with our reliable products. Until now, our VoIP products have been available in 100+ countries and used by millions of end users.

## Contact Sales

Address	Area C, A2F , Block 3 ,Huangguan Technology Park , #21 Tairan 9th Rd, Chegongmiao , Futian District , Shenzhen China
Tel	+ (86) 755-83018618-8806
Fax	+ (86) 755-83018319
E-mail	<a href="mailto:sales@atcomemail.com">sales@atcomemail.com</a>

## Contact Technical Support

Tel	+ (86) 755-83018618-8008
E-mail	<a href="mailto:Support@atcomemail.com">Support@atcomemail.com</a>

**Website Address:** <http://www.atcom.cn/>

**Download Center:** <http://www.atcom.cn/download.html>

# 1. Overview of A11(0)



A11(0)

Type	POE	Power adapter
A11	Yes	Optional accessory
A10	No	necessary

## 1.1 Interfaces

- Power input: DC 5V, 1000mA or POE
- LAN: RJ45 port
- PC: RJ45 port
- Headset jack 1 : RJ9 port
- Handset jack 1 : RJ9 port

## 1.2 Hardware

- LCD: 132×58
- CPU: 400MHz Dual Core

- LED indicator: 1 Status Light

### 1.3 Software

- Sip 2.0 (RFC3261) and other related SIP RFCs
- 1 SIP lines
- STUN
- Jitter Buffer, VAD,CNG
- G.711A/u, G722, G.723, G.726-16, G.726-24, G.726-32, G.726-40, G.729 , Lin16-16, iLBC
- Echo Cancellation
- SIP Domain name, Authentication
- DTMF (inband, RFC2833, info)
- Call transfer, Call forward, 3-way conference, Call hold, Call back
- DND(Do Not Disturb), Auto answer, Blacklists, Block Call-ID, Block Anonymous call, Dial plan, IP call
- Phone book with 1000 white records and 100 black records, 200 answered calls, 200 missed calls, 200 dialed calls
- Update via HTTP, FTP, TFTP, PNP
- Syslog
- SNTP
- WEB access with different login level
- Multi-language: English, Chinese, Farsi, French, German, Hebrew, Italian, Portuguese, Russian, Spanish, Turkish
- Soft button: soft button \* 3
- Redundancy SIP server

### 1.4 Network

- LAN/PC: Support bridge mode
- Support VLAN (DATA VLAN and VOICE VLAN)
- Support L2TP VPN
- LAN support Primary and Secondary DNS
- LAN support DHCP Client
- Support QoS

### 1.5 Management and Maintenance

- Support safe mode and firmware updating under safe mode
- Support different level user management
- Configuration via web , keyboard
- Support multi-language
- Auto provision (Firmware and configuration file)
- Support system log and call log

### 1.6 Protocol

- IEEE 802.3 /802.3 u 10 Base T / 100Base TX
- DHCP: Dynamic Host Configuration Protocol
- SIP RFC3261, RFC3262, RFC3263, RFC3264, RFC3265, RFC2543, RFC3489, RFC3842, RFC3515, RFC2976, RFC3428, RFC2327, RFC2782, RFC1889
- TCP/IP: Transfer Control Protocol/Internet Protocol
- RTP: Real-time Transport Protocol
- RTCP:RTP Control Protocol
- DNS: Domain Name Server
- TFTP: Trivial File Transfer Protocol
- HTTP:Hypertext Transfer Protocol

- FTP:File Transfer Protocol

### 1.7 Compliant and Authenticated Standard

- CE: AGC01180140201E2, AGC01180140202E2
- Comply with ROHS in EU
- Comply with ROHS in China



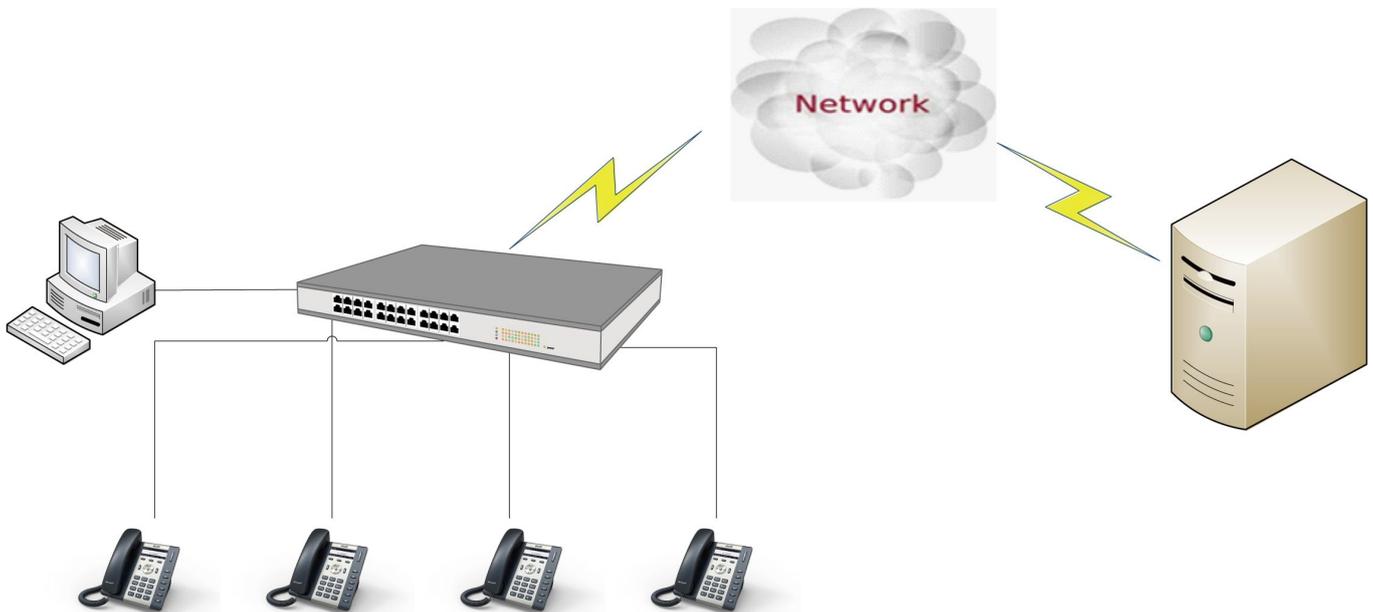
- Operation temperature: lower than 60° C
- Storage temperature: lower than 60° C
- Humidity: 10 to 90% no dew

### 1.8 Packing List

Model	Phone	Handset	Handset line	Stand bracket	Ethernet Cable	User Manual CD
A11(0)	1	1	1	1	1pcs 1.5m	1

Note: Power adapter (Input: AC 100~240V, 50/60Hz; Output: 5V, 1000mA;)

### 1.9 Installation



Connect LAN port to PC with Ethernet cable, or connect A11(0) to a switch/router which is in the same network as your PC. It uses DHCP mode by default, and you can review its current IP address

by pressing  key on idle state. To access the web interface, you can input the IP address in IE browser. E.G. The IP address of your A11(0) is 192.168.1.100, you can input 192.168.1.100 and press enter key on your browser to access its webpage. There are two login level:

User

Admin

atcom		Basic	Network	Account	Phone	Update	Phonebook	Call Log
<b>Status</b>		<b>Product</b>						
Wizard		<b>Name:</b>	A11	<b>Protocol:</b>	SIP			
		<b>Firmware Version:</b>	1.0.1.1abb6	<b>Hardware Version:</b>	1			
		<b>Mac Address:</b>	00:01:02:2B:33:51	<b>Serial Number:</b>				

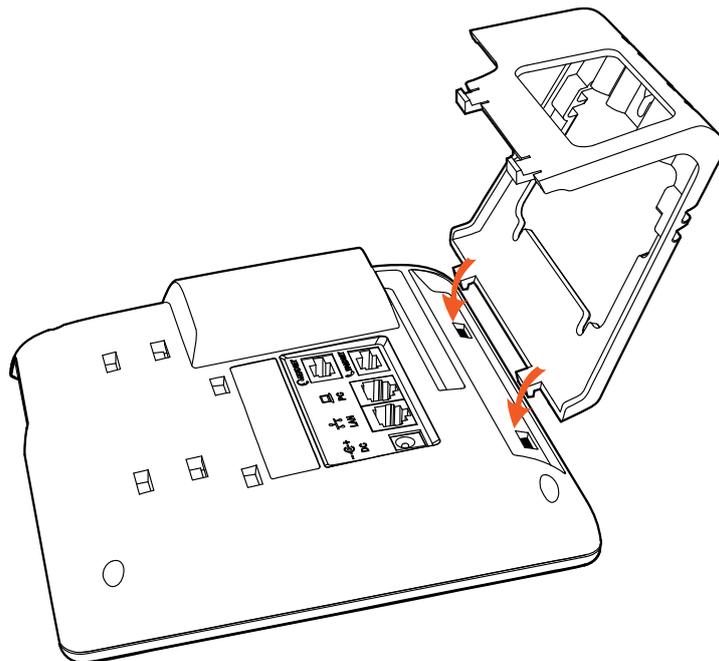
No password is set for those two accounts with factory settings. You can click admin button on the right corner of the webpage to switch from the user to admin mode. To set the password for user and admin login you can firstly login as admin and enter the Network--->Advance page as following.

atcom		System Status	Network	SIP Settings	Account	Phone Settings	Update	Phone Book	Call Log
Basic		<b>Web Server</b>							
Advance		<b>Enable Web Server :</b>	Yes <input type="button" value="v"/>						
		<b>Admin Password :</b>	<input type="text"/>	<b>User Password :</b>	<input type="text"/>				
		<b>HTTP Port :</b>	80						

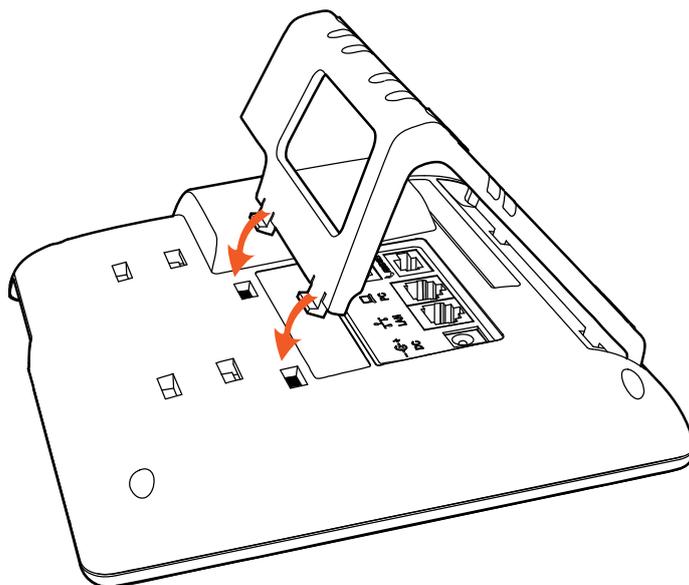
## Installation instruction

### 1. Desktop installation

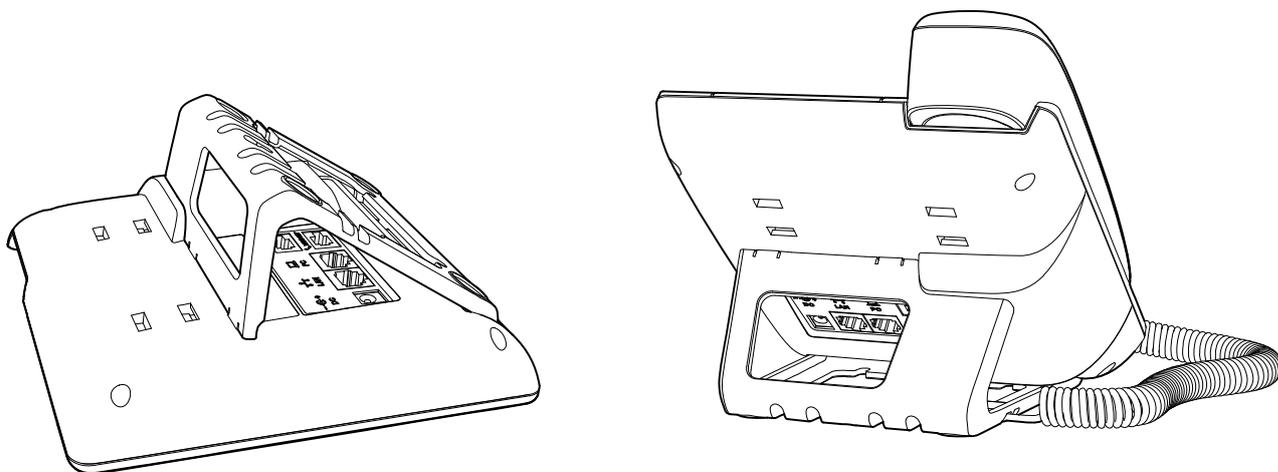
A. Put the bottom side of the IP phone upside and press one-side joints of stand bracket into the slot, please refer the picture as below:



B. Press the other side joints into the slot according to the direction of the arrow

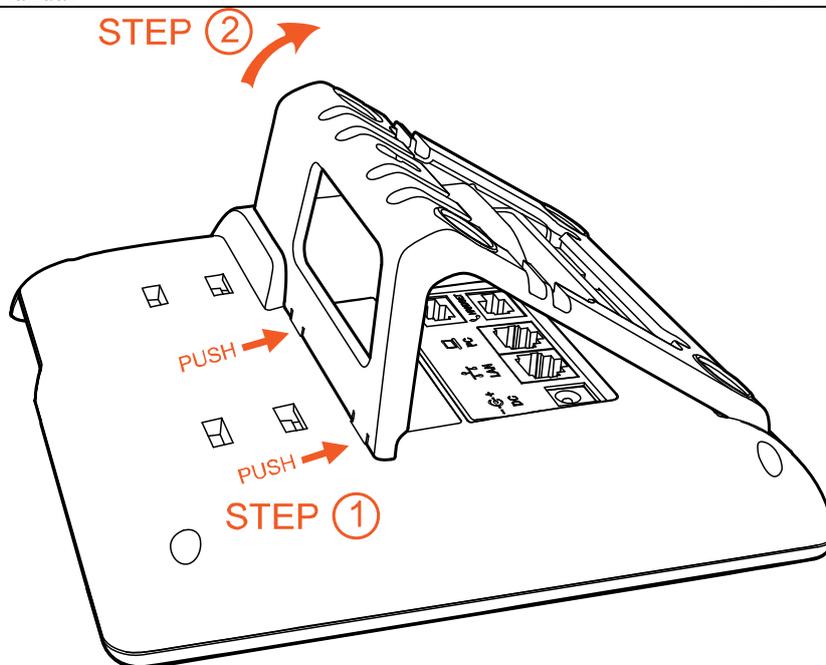


C. It is the right picture after fixing the stand bracket below:



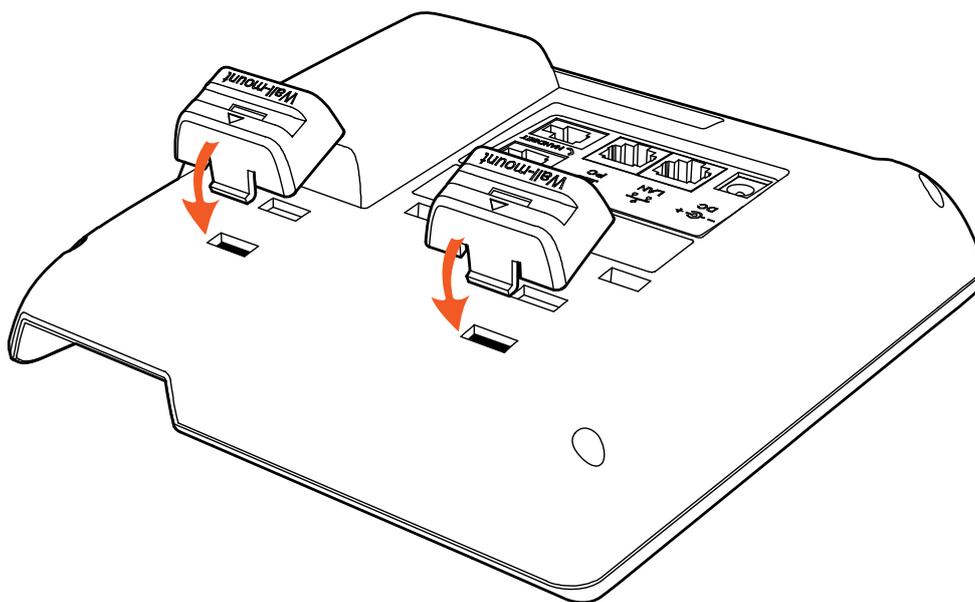
D. Disassemble the stand bracket:

Push the spring joint of stand and pull the stand according to the direction of the arrow. When the joints are pulled out of the slot, you can take off the stand bracket.

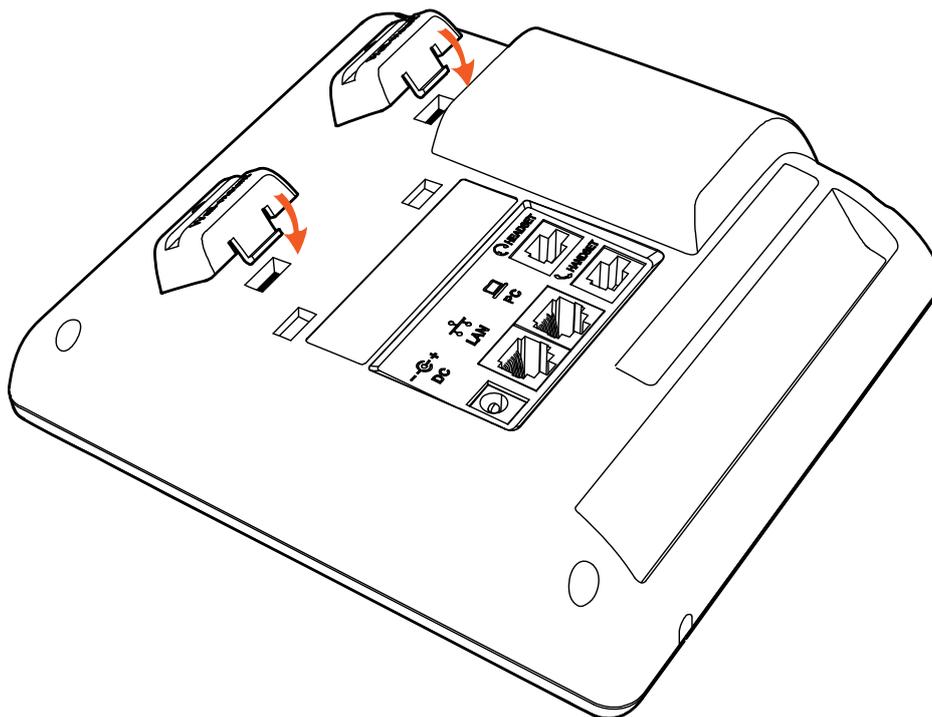


## 2. Wall-hung Installation

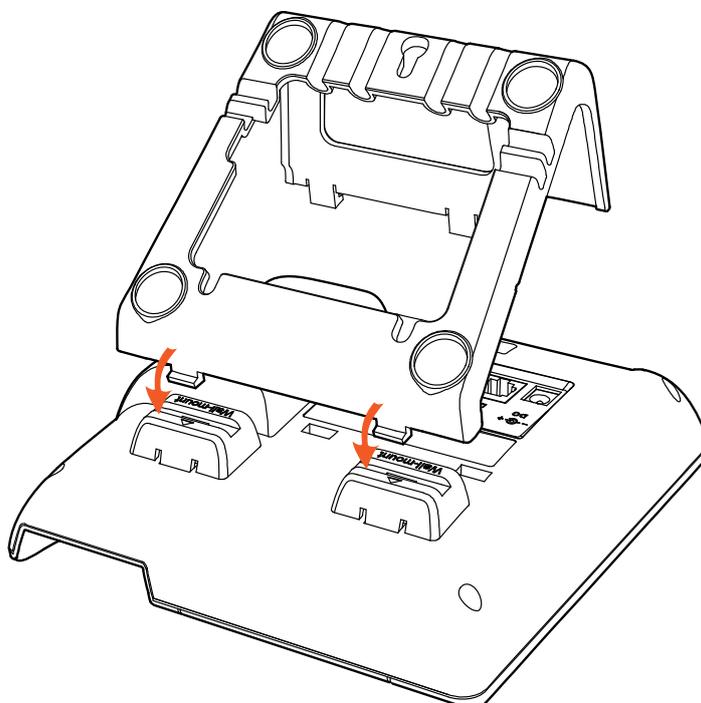
A. Put the bottom side of the IP phone upside and press one-side joints of wall-hung stand bracket into the slot, please refer the picture as below:



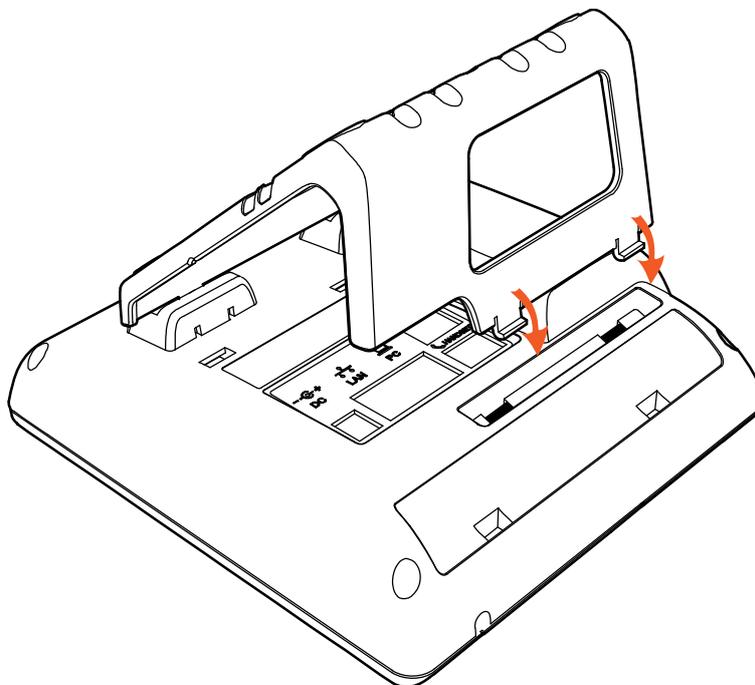
B. Press the other side joints into the slot according to the direction of the arrow



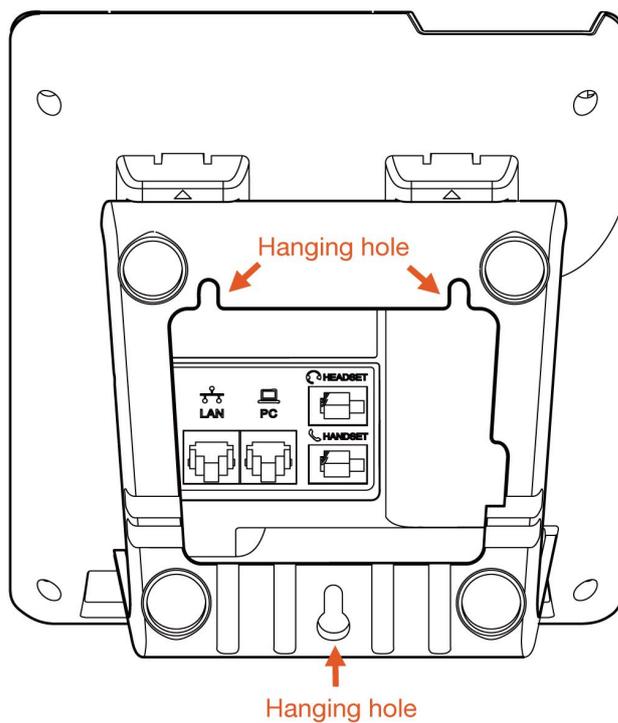
C. After install the wall-hung stand bracket, press one-side joints of stand bracket into the slot, please refer the picture as below:



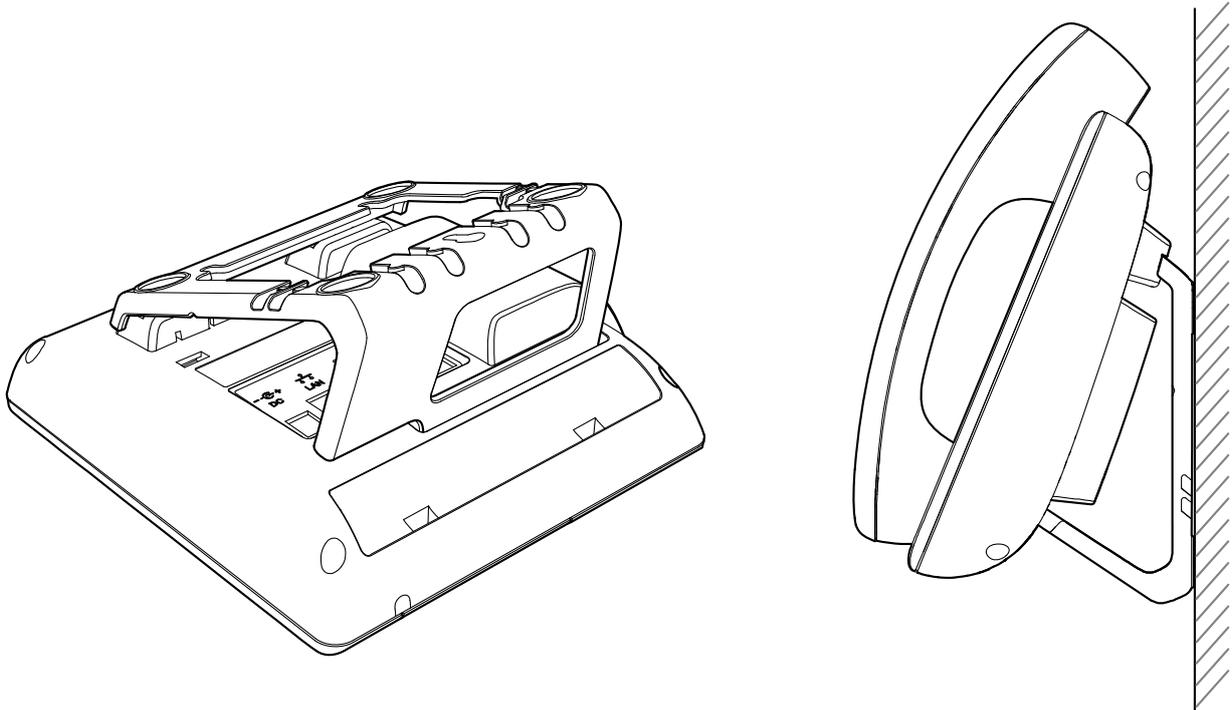
D. Press the other side joints into the slot according to the direction of the arrow



E. Knock in nails or screws on the wall according to the proportion of the distance between the hanging holes as below:

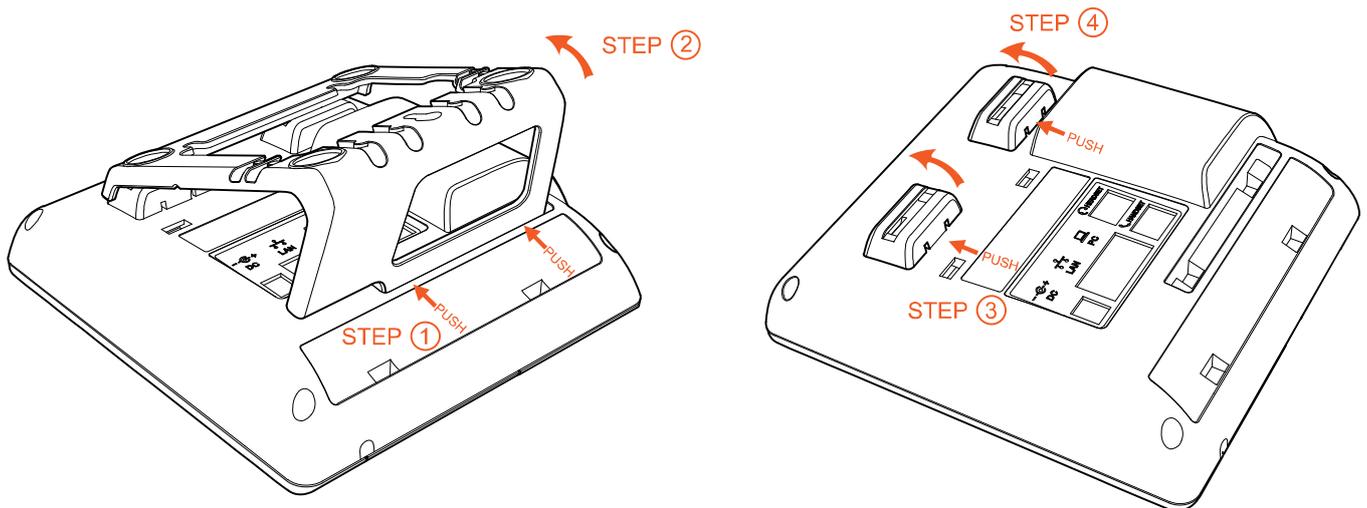


F. It is the right picture after fixing the stand bracket below:

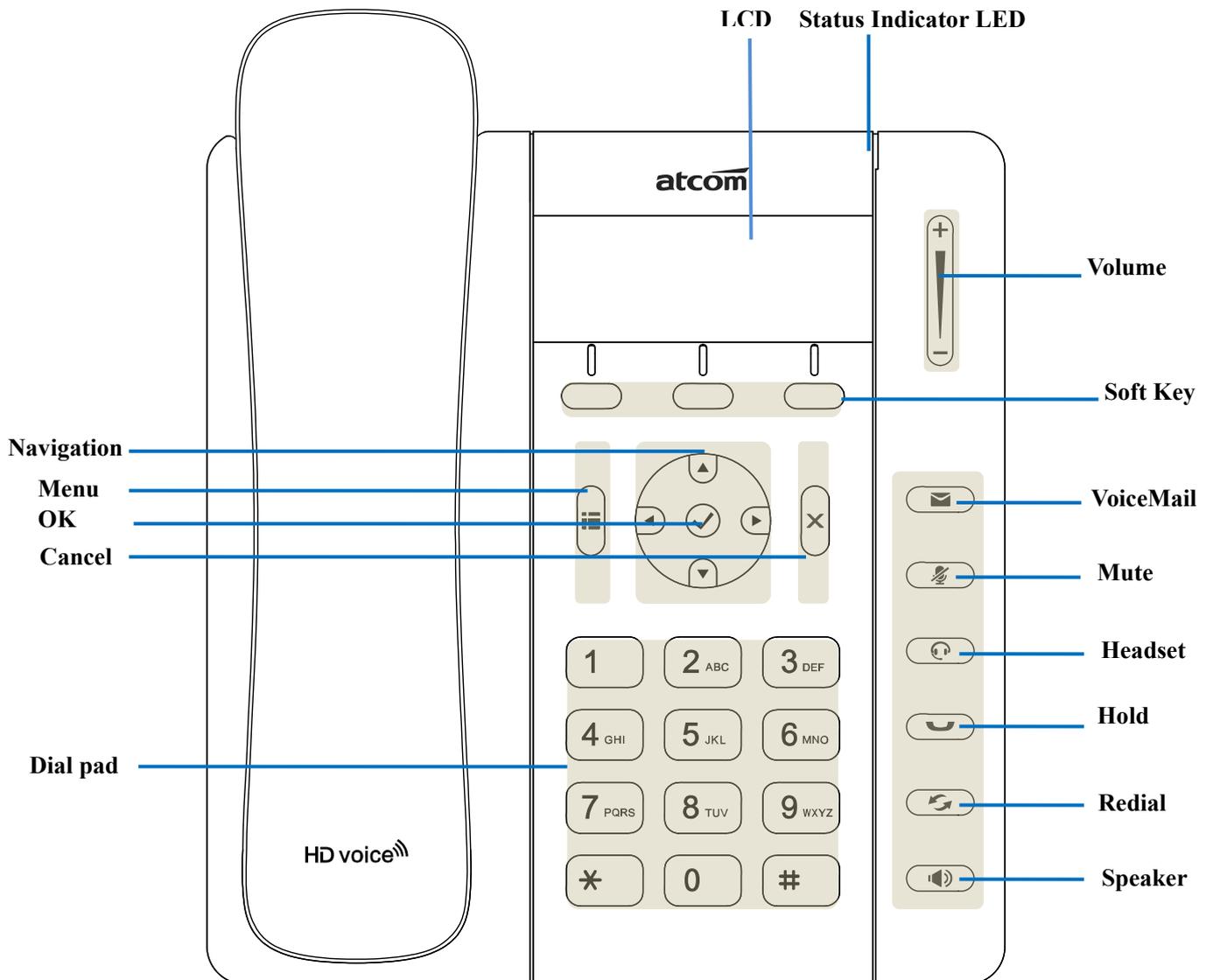


G. Disassemble the stand bracket:

Push the spring joint of stand and pull the stand according to the direction of the arrow. According to the direction of the arrow:

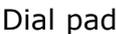


## 2. Keypad of IP Phone



### 2.1 Describe of the buttons and Screen

Soft Keys	Press to select a function which displayed at the softkey zone of screen Display all optional functions at the last line of LCD screen.
Status Indicator LED	Indicates the phone's status, <ul style="list-style-type: none"> <li>➤ If the phone is being started ,the LED is on</li> <li>➤ If the phone is standby, the LED is off</li> <li>➤ If there is income calling, the LED will blink at 120ms on, 120ms off.</li> <li>➤ If there is a new message, the LED will blink at 600ms on, 600ms off.</li> </ul>
LCD Screen	All information such as date, time, phone number, incoming caller's ID(if available),line/call status, extension numbers and the soft key features are displayed on it.

	Entering numbers or characters.
	Allows users to navigate (left, right, up, down). Press  can enter "Directory". Press  can enter "History".
	Adjust the volume (speaker/handset/headset/ring). Volume level will be displayed on LCD when pressing volume key.
	Confirm users' operation and show status when A11(0) is idle.
	Cancel users' operation.
	Enter menu settings.
	Pick up and hung up under the speaker mode.
	Mute the mic in a conversation by pressing the Mute button; this prevents the person on the active call from hearing what you or someone else in the room is saying. To un-mute, press the Mute button again.
	Pick up and hung up under headset mode.
	Check the Voicemail status.
	Hold the current call.
	Redial the last dialed number

## 2.2 Describe of the LCD Screen Icons

Icon	Description
	The extension is registered
	The extension is unregistered
	There is a new voice mail
	There is an incoming call

	The call is held
	A11(0) is in speaker mode
	A11(0) is in handset mode
	A11(0) is in headset mode
	The call is muted

## 3. Basic functions and operations

### 3.1 Answer the calls

When there is an incoming call, phone will remind user with ringing. There are 3 ways to answer the call

#### A. Answer by handset

Pick up the handset and talk with the caller. If you want to hang up, just put back the handset. When you are talking with the handset and want to switch to speaker mode or headset mode, please press

 key or  key, then put down the handset.

#### B. Answer by speaker

Press  key and talk with callers by built-in Micro-phone and Speaker. If you want to hang up, please press  key again. Switch calling or talking into handset mode by lifting the handset under speaker mode. Press  key will switch calling or talking into headset mode.

#### C. Answer by headset

Keep your microphone connected with the RJ9 headset jack, when there is an incoming call, press  key and talk with the caller. If you want to hang up, please press  key again.

Pressing  key can change calling or talking into speaker mode, and lifting the handset switches to handset mode.

### 3.2 Make Call

#### A. Use the handset

Pickup the handset and input a phone number. Press soft key "Send" to dial the number. When you hear the tones of "du~~du~~" and the phone number your dialed is being displayed on the LCD, the phone at the side of being called should be ringing. If the called party answers this calling, the call is established and the calling timer is started immediately.

#### B. Use the speaker

Press  key and input a phone number. Press soft key "Send" to dial the number. When caller hear the tones of "du~~du~~" and the phone number your dialed is being displayed on the LCD, the phone at the side of being called should be ringing. If the called party answers this calling, the call is established and the calling timer is started immediately.

#### C. Use the headset

Press  Key and input a phone number. Press soft key "Send" to dial the number. When caller hear the tones of "du~~du~~" and the phone number your dialed is being displayed on the

LCD, the phone at the side of being called should be ringing. If the called party answers this calling, the call is established and the calling timer is started immediately.

#### D. Dial from phone book



1. Press  key and input the keypad password 123 to enter the menu and choose "Directory" option. Press "Select" soft key and then find the contact person by navigation keys. When the certain contact person is highlighted, press "Dial" or just pick up the handset to call this number.
2. Pick up the handset, press "Directory" soft key, then select the contact person and press "Dial" soft key.
3. Pick up the handset, press  and enter "Directory", then select the contact person and press "Dial" soft key.

#### E. Dial from call history



1. Press  key and input the keypad password 123 to enter the menu and choose "History" option, then enter sub-directory "Dialed Calls", "Received Calls" or " Missed Calls" to select one of call history entry, and press "Dial" soft key or pick up handset to call this number.
2. Pickup the handset, press "History" soft key, then select one of call history entry, and press "Dial" soft key to call this number.
3. Pickup the handset, press  and enter "Call History", then select one of call history entry, and press "Dial" soft key to call this number.

### 3.3 Pre- dial

It's a method to dial a phone number immediacy at standby mode.

- A. Dial-up the phone number at standby mode
- B. Press soft key "Dial" to send out the number

### Multiple line dial-up

A11(0) supports up to 2 concurrent calls. If there is a new incoming call when you're talking on A11(0), the new incoming call will be displayed on LCD and status indicator LED will be fast blinking. User can press soft key "Hold" then press "Answer" to receive the new incoming call.

### 3.4 Hang up the phone

1. Handset hang up

Put back the handset at handset mode, the current calling will be hung up.

2. Speaker hang up

Press  key at speaker model, the current calling will be hung up.

3. Headset Hang up

Press  key at headset model, the current calling will be hung up.

4. Hang up one line call

Press the hook to hang up the current calling when 2 calls happened simultaneously.

### 3.5 Call Transfer

#### 1. Attended call transfer

The attended transfer allows user to call a third-party before transferring the calling.

While on calling, press the "Transfer" soft key to hold the current call and phone the third party. Then dial the target number you want to transfer to on the activated line and press "Send" soft key to call that number. After the target party answers the call, press "Transfer" soft key again to complete the transfer.

#### 2. Blind call transfer

The blind transfer allows user to transfer a call without speaking to the third party. On the user side, the call will be ended as soon as the target phone number is dialed.

Operating steps: Press "More" soft key to get more option, then press "Bxfer" soft key, input the transfer target number and press "Send" soft key.

### 3.6 Voicemail

A11(0) has a  key for entering voicemail box. Press  key to enter the menu to configure voicemail number if never configure it previously. Otherwise, the voicemail number will be called after press it. If you want to modify it after configured it, please go to the Account webpage to modify the voicemail number.

### 3.7 Mute calls

The input audio will be not transmitted to peer phone after pressing  key, and the phone will be muted even switched among different modes of speaker, handset and headset. To un-mute, just press  key again.

### 3.8 Call Hold

The current calling will be hold by pressing soft key "Hold" or  key. And the held call will be resumed after pressing soft key "Resume" or  key or the corresponding line key. Even on 3-way conference calling, the 3-way conference calling will be held after pressing "Hold" key, and be resumed to 3-way conference after pressing "Hold" Key again. Remember the conversation is still on hold without being ended even if hung up under the status of hold.

### 3.9 3-Way Conference Call

To initiate a conference call:

Press "More" soft key on calling to get more options, then press "Conf" soft key to start a conference call. Enter the phone number of the third party and press "Send" soft key to send it out.

1. After the third party answers the call, pressing "Conf" key again to establish the 3-way conference.
2. 3-way conference initiator can press "Exit" soft key to quit from the conference and leave the other two parties still in the conversation.
3. If the initiator hangs up the call or press the "End Conf" soft key, the conference will be ended and the calling between the other two parties will be hung up.

### 3.10 Call History

A11(0) supports 200 missed calls list, 200 incoming calls list and 200 dialed calls list. When the storage is full, the old record will be erased by the new one.

Press "History" soft key or  key when A11(0) is standby, all the incoming(->), outgoing(<-) and missed calls(!) will be listed. There is other ways to check them:

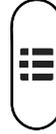
#### A. Missed call

1. Press  key.
2. Press  key and  key to select "Call History" then press "Select" soft key.
3. Press  key and  key to select "Missed Calls" then press "Select" soft key.
4. Press  key and  key to browse the missed call record. If there is no record, the LCD display will be indicated "List is Empty".

#### B. Answered call

1. Press  key .
2. Press  key and  key to choose "Call History" and then press "Select" soft key.
3. Press  key and  key to choose "Answered Calls" and then press "Select" soft key.
4. Press  key and  key to browse the answered call records. If there is no record, the LCD display will be indicated "List is Empty".

#### C. Dialed call

- 1) Press  key.
- 2) Press  key and  key to select "Call History" and then press "Select" soft key.
- 3) Press  key and  key to select "Dialed Calls" and then press "OK" soft key.
- 4) Press  key and  key to browse the dialed call records. If there is no record, the LCD display will be indicated "List is Empty".

### 3.11 Default Password

Password is needed to access menu and web.

The default password for accessing menu is 123.

There are 2 modes to access web: User mode and Admin mode. All the parameters can be visible at Admin mode while part of them can be visible at User mode.

- User Mode
 

Username: user	no default Password
----------------	---------------------
- Admin Mode:
 

Username: admin	no default Password
-----------------	---------------------

### 3.12 Check the Phone's IP address

Press  key, then the status of the phone will be displayed on the screen and you will see the current IP address of the phone.

### 3.13 Dial Plan

Dial plan defines the rule of dial. The syntax of dial plan for A11(0) is closely similar as the corresponding syntax specified by MGCP and MEGACO.

Dial plan is stipulated by the below configurable parameters:

- Interdigit Long Timer—refer to [Interdigit long timer](#) for more detail description
- Interdigit Short Timer—refer to [Interdigit short timer](#) for more detail description
- Dial Plan

Dial plan contains a series of digit sequences, separated by the '|' character. The collection of sequences is enclosed in parentheses '(' and ')'.

Default: (\*xx.|xxxxxxxxxxxxx.)

When user dials a series of digits, A11(0) will response in below way:

- No candidate sequences matched, the number will be rejected and "call ended" will be displayed on the screen. For instance, if the default dial plan only supports digits, any '\*' character or letters input will be rejected.
- More than one candidate sequences matched, A11(0) will wait for more digits input.
- When input timeout occurs, A11(0) will dial the digits input already.
- When input '#' character, A11(0) will dial the input digits immediately.

Digit Sequence Syntax:

'x': Matches any one numeric digit ('0' ... '9')

'[]': Numeric ranges are allowed within '[']. For example, [389] means '3' or '8' or '9', [3-6] means '3' or '4' or '5' or '6', [235-8\*] means '2' or '3' or '5' or '6' or '7' or '8' or '\*'.

'.' : Any element can be repeated zero or more times by appending a '.' character. For example, 01. matches 01,011,0111,01111,...,011111111...etc.

'<>': subsequence substitution. For example, '<8:1650>xxxxxx' would match '85551212' and the first digit '8' will be replaced by '1650' and '16505551212' will be dialed.

',': An "outside line" dial tone can be generated within a sequence by appending a ',' character between digits. Thus, the sequence "9,1xxxxxxxx" sounds an "outside line" dial tone after the user presses '9', until the '1' is pressed.

'!': A sequence can be barred (rejected) by placing a '!' character at the end of the sequence. For example, "137xxxxxxxx!" will forbid numbers which have 11 digits and start by 137 to be dialed.

Example:

(xxxxxxx|[\*#]xxxx|9,1xxxxxxxxxx|00xxx!) contains 4 subsequences:

1. Allow to dial numbers with 7 digits
2. Allow to dial numbers with 4 digits and start by '\*' or '#'
3. Allow to play an "outside line" dial tone after pressing '9' and dial numbers with 11 digits and start by 1
4. Forbid to dial numbers with 5 digits and start by 00

## 4. Web settings

Input the IP address in the web browser and press 'Enter' key to access A11(0)'s user webpage. Click "admin" which is on the right top corner to enter administrator webpage.

The screenshot shows the top navigation bar with the 'atcom' logo and tabs for 'Basic', 'Network', 'Account', 'Phone', 'Update', 'Phonebook', and 'Call Log'. The 'Basic' tab is active. Below the navigation bar, there is a 'Status' dropdown menu with 'Wizard' selected. The main content area shows the 'Product' section with the following details:

Name:	A21	Protocol:	SIP
-------	-----	-----------	-----

### 4.1 System status

The screenshot shows the 'System status' page with the following sections:

**Product**

Name:	A21	Protocol:	SIP
Firmware Version:	1.0.0.7896c	Hardware Version:	11
Mac Address:	80:82:88:D3:FF:38	Serial Number:	

**Network**

Type:	DHCP	Current IP:	172.16.0.147
Current Netmask:	255.255.255.0	Current Gateway:	172.16.0.1
Primary DNS:	202.96.134.133	Secondary DNS:	202.96.128.86
Host Name:		Domain:	
VPN State:	Disable	VPN IP:	

**Account 1**

Registration State:	Registered	Proxy:	172.16.0.55
User ID:	5006	Message Waiting:	Yes
Last Registration At:	10/19/2015 14:30:56	Next Registration In:	245 s

**Account 2**

Registration State:	Registered	Proxy:	172.16.0.55
User ID:	5054	Message Waiting:	Yes
Last Registration At:	10/19/2015 14:30:56	Next Registration In:	245 s

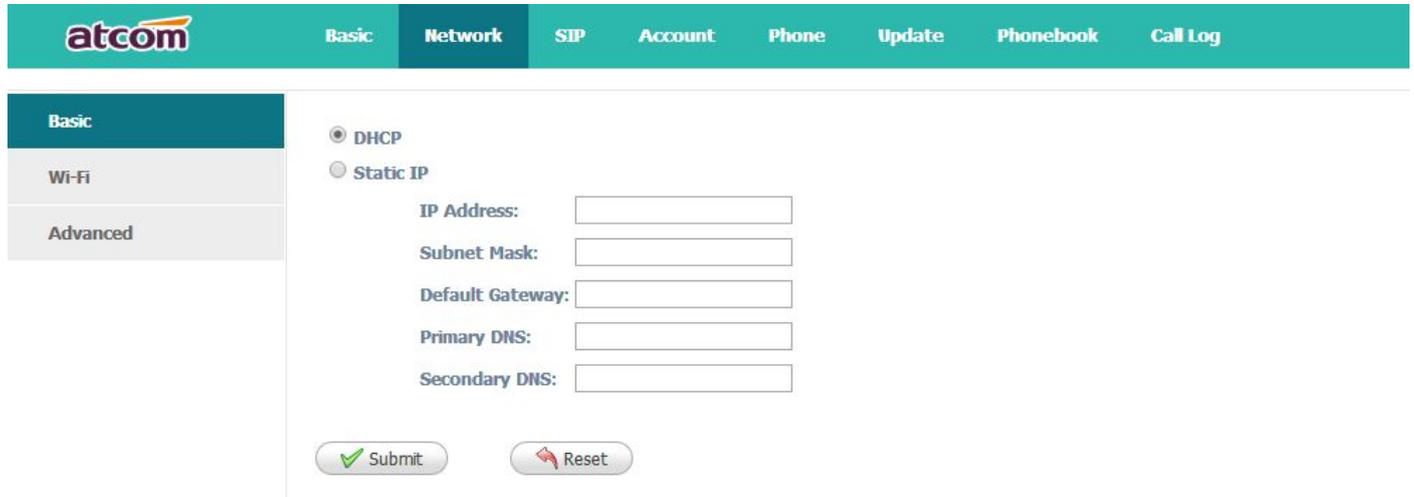
This page shows the IP phone's system status.

1. **Product Information** shows the product name, protocol, software and hardware version, Mac address and serial number.
2. **Network Information** shows the network connection type, IP address, netmask, gateway, DNS, host name, domain and VPN information.
3. **Account Information** shows registration state, proxy, user ID, message waiting on or off, the last and next registration time.

## 4.2 Network

### 4.2.1 Basic

There are 3 ways to connect to the internet: DHCP, Static and PPPoE, please choose one according to your own situation.



**Network mode:** DHCP ,Static IP

#### 1. DHCP

Obtain automatically dynamic IP from DHCP server.

#### 2. Static IP

- a) IP Address: set IP address
- b) Subnet Mask: set netmask
- c) Default Gateway: set gateway
- d) Primary DNS: set primary DNS server
- e) Secondary DNS: set secondary DNS server

Press 'Submit' button after finishing setting and all the settings info will be saved and taken effect after A11(0) reboots.

### 4.2.2 Wi-Fi

#### 1、Configure the wifi on the WEB

A21 connect to network via Wi-Fi acquiescently, click "Search Wi-Fi" button to search the available Wi-Fi.

After all available Wi-Fi hotspots are list out, click the round behind the available Wi-Fi which you want to connect.

序号	SSID	加密模式	信号	选择
1	ACCROSER5	WPA2PSK/AES	100	<input type="radio"/>
2	0xE7B2A4E5BBB7E8BDA9E6A5BCE4B8	WPA2PSK/AES	100	<input type="radio"/>
3	TP-LINK_9C5BBE	WPA2PSK/AES	100	<input type="radio"/>
4	Accesser009	WPA1PSKWPA2PSK/AES	100	<input type="radio"/>
5	0xE581B7E7AAA5E78B82	WPA2PSK/AES	86	<input type="radio"/>
6	360WiFi-C8C9	NONE	81	<input type="radio"/>
7	pushed	WPA2PSK/AES	76	<input type="radio"/>
8	D-Link_test	WPA1PSKWPA2PSK/TKIPAES	76	<input type="radio"/>
9	TOJI	WPA1PSKWPA2PSK/AES	50	<input type="radio"/>
10	chanvi	WPA1PSKWPA2PSK/AES	20	<input type="radio"/>

Input the right "Secret Key" and then click the "Submit" button, the phone will reboot, and you should disconnect the wire that connect to A21 during rebooting, or the phone will connect to network via wire preferentially. The Wi-Fi icon will display on the home screen, it means connect failed when the icon come with ×, you should to check the configuration.

## 2、Configure the wifi on the phone

- 1、 Press "Menu"->"Network"->"Connect Mode",change for the wifi connection mode,press "OK".
- 2、 Press "Menu"->"Network"->"WIFI setting"->"WLAN",choose the wifi you want to connect,Press "Connect",then input the correct wifi password.
- 3、 Return to the standby interface,and phone successful connected to the wifi.

### 4.2.3 Advance

#### ➤ Web Server

Web Server

Enable Web Server :

Admin Password :  User Password :

HTTP Port :

- ✓ Enable Web Server: Enable or disable web access. If choose "no", you're not able to access A11(0)'s webpage.

- ✓ Admin password: Set password for admin webpage access. Input 'http://ip-address/index.asp' in the web browser to access admin's login webpage after setting the admin password, then input username(admin) and password to access the admin's webpage.
- ✓ User password: Set password for user webpage access. Input 'http://ip-address/user.asp' in the web browser to access user's login webpage after setting the user password, then input username(user) and password to access the user's webpage.
- ✓ HTTP port: set port for HTTP access (defaults to 80)  
For example, A11(0)'s IP is 192.168.1.223  
HTTP port was set as 100, you have to type "http://192.168.1.223:100" in web browser to enter A11(0)'s webpage.

## ❖ VPN

### VPN

VPN Enable :	<input type="text" value="No"/>	VPN Type :	<input type="text" value="L2TP Tunnel"/>
Server Address :	<input type="text"/>		
User Name :	<input type="text"/>	Password :	<input type="text"/>

1. VPN Enable: Select "Yes" or "No" to enable or disable VPN
2. VPN Type: Only support L2TP VPN
3. Server address: VPN server address
4. Username: VPN account's username
5. Password: VPN account's password

After apply, the phone will be reboot. The VPN IP address will be shown on the System Status webpage.

## ❖ VLAN

### VLAN

You should receive the tagging values of a virtual LAN from your provider. Wrong settings will require factory reset.

LAN VLAN Enable:	<input type="text" value="No"/>	PC VLAN Enable:	<input type="text" value="No"/>
LAN Identifier(1~4094):	<input type="text" value="1"/>	PC Identifier(1~4094):	<input type="text" value="1"/>
LAN Priority:	<input type="text" value="0"/>	PC Priority:	<input type="text" value="0"/>

1. VLAN Enable: Select "Yes" or "No" to enable or disable VLAN
2. LAN VLAN Identifier(1..4094) : Assign VLAN ID for voice stream, range from 1 to 4094
3. LAN VLAN Priority: range from 0 to 7, 7 is the highest priority.
4. PC VLAN Identifier(1..4094) : Assign VLAN ID for data stream, range from 1 to 4094
5. PC VLAN Priority: range from 0 to 7, 7 is the highest priority.

## ➤ Port Link

## Port Link

LAN Port Link :  PC Port Link :

**Choose the network type and port link of LAN/PC**

1. LAN Port Link: Auto negotiate, full duplex 10Mbps, full duplex 100Mbps, half duplex 10Mbps, half duplex 100Mbps.
2. PC Port Link: Auto negotiate, full duplex 10Mbps, full duplex 100Mbps, half duplex 10Mbps, half duplex 100Mbps.

**➤ Qos**

## Qos

SIP Qos(0..63) :  Voice Qos(0..63) :

**QoS: Quality of service**

1. SIP Qos: Quality of service for SIP (Diffserv)
2. Voice Qos: Quality of service for RTP (Diffserv)

**➤ Syslog**

## Syslog

Enable Syslog :  Log Level :   
 Syslog Server :  Port :

1. Enable Syslog: Select "Yes" or "No" to enable or disable syslog.
2. Log level: None, Alert, Critical, Error, Warning, Notice, Info, Debug. The debug level is the most detailed.
3. Syslog Server: Syslog Server address.
4. Port: Syslog server port, defaults to 514.

**4.3 SIP Setting****➤ Sip Timer Values**

## Sip Timer Values

Sip T1 :  Sip T2 :   
 Sip T4 :   
 Reg Retry Intvl :  Sub Retry Intvl :

1. Sip T1: RFC 3261 T1 value (RTT). Range: 0 – 64 sec, defaults to 0.5
2. Sip T2: RFC 3261 T2 value (Maximum retransmit interval for non-INVITE requests and INVITE responses). Range: 0 – 64 sec, defaults to 4
3. Sip T4: RFC 3261 T4 value (Maximum duration a message will remain in the network). Range: 0

– 64 sec, defaults to 5

4. Reg Retry Intvl: Interval to wait before the phone retries registration again after encountering a failure condition during last registration. Range: 0 –65535, defaults to 8
5. Sub Retry Intvl: Interval to wait before the phone retries subscriber again after encountering a failure condition during last subscriber. Range: 0 –65535, defaults to 10

## ➤ RTP Parameters

### RTP Parameters

RTP Port Min :	<input type="text" value="16384"/>	RTP Port Max :	<input type="text" value="16482"/>
RTP Packet Size(ms) :	<input type="text" value="10"/>		

1. RTP Port Min: Minimum port number for RTP transmission and reception. Range: 1–65535, defaults to 16384
2. RTP Port Max: Maximum port number for RTP transmission and reception. <RTP Port Max> should be at least 2 larger than <RTP port Min>.Range: 1–65535, defaults to 16482
3. RTP Packet Size(ms): Packet size in milliseconds, which can be 10ms, 20ms, 30ms, 40ms, 60ms

## ➤ SDP Payload Types

### SDP Payload Types

G711a Codec Name:	<input type="text" value="PCMA"/>	G711u Codec Name:	<input type="text" value="PCMU"/>
G723 Codec Name:	<input type="text" value="G723"/>	G722 Codec Name:	<input type="text" value="G722"/>
G729ab Codec Name:	<input type="text" value="G729"/>		
AVT Dynamic Payload:	<input type="text" value="101"/>	AVT Codec Name:	<input type="text" value="telephone-event"/>
iLBC Dynamic Payload:	<input type="text" value="98"/>	iLBC Codec Name:	<input type="text" value="iLBC"/>
G726r16 Dynamic Payload:	<input type="text" value="108"/>	G726r16 Codec Name:	<input type="text" value="G726-16"/>
G726r24 Dynamic Payload:	<input type="text" value="109"/>	G726r24 Codec Name:	<input type="text" value="G726-24"/>
G726r32 Dynamic Payload:	<input type="text" value="110"/>	G726r32 Codec Name:	<input type="text" value="G726-32"/>
G726r40 Dynamic Payload:	<input type="text" value="111"/>	G726r40 Codec Name:	<input type="text" value="G726-40"/>
Lin16 Dynamic Payload:	<input type="text" value="107"/>	Lin16 Codec Name:	<input type="text" value="L16"/>

1. G711a Codec Name---G711a codec name used in SDP, defaults to PCMA
2. G711u Codec Name---G711u codec name used in SDP, defaults to PCMU
3. G723 Codec Name---G723 codec name used in SDP, defaults to G723
4. G722 Codec Name---G722 codec name used in SDP, defaults to G722
5. G729ab Codec Name---G729ab codec name used in SDP, defaults to G729
6. AVT Codec Name---AVT codec name used in SDP, defaults to telephone-event
7. iLBC Dynamic Payload---iLBC dynamic payload type. Defaults to 98
8. iLBC Mode---iLBC codec rate, which can be 13.3kBit/s, 15.2kBit/s. Defaults to 13.3kBit/s

9. G726r16 Dynamic Payload ---G726 dynamic payload type. Defaults to 108
10. G726r16 Codec Name---G726 codec name used in SDP, defaults to G726-16
11. G726r24 Dynamic Payload ---G726 dynamic payload type. Defaults to 109
12. G726r24 Codec Name---G726 codec name used in SDP, defaults to G726-24
13. G726r32 Dynamic Payload ---G726 dynamic payload type. Defaults to 110
14. G726r32 Codec Name---G726 codec name used in SDP, defaults to G726r32
15. G726r40 Dynamic Payload ---G726 dynamic payload type. Defaults to 111
16. G726r40 Codec Name---G726 codec name used in SDP, defaults to G726r40
17. Lin16 Dynamic Payload ---Lin16 dynamic payload type, defaults to 102
18. Lin16 Codec Name--- Lin16 codec name used in SDP, defaults to Lin16

## ➤ NAT Support Parameters

### NAT Support Parameters

Enable Stun :  Stun Server :

1. Enable Stun: Select "Yes" or "No" to enable or disable using stun to discover NAT mapping.
2. Stun Server: Set stun server, which can be IP address or domain name.

## 4.4 Account

A11(0) has 1 line which is enabled to register by default.

### ➤ SIP

SIP

Display Name :	<input type="text"/>	User ID :	<input type="text"/>
Authenticate ID :	<input type="text"/>	Password :	<input type="text"/>
SIP Server :	<input type="text"/>	SIP Port :	<input type="text" value="5060"/>
SIP Redundancy Server :	<input type="text"/>		
Use Outbound Proxy :	<input type="text" value="No"/>		
Outbound Proxy Server :	<input type="text"/>	Outbound Proxy Port :	<input type="text" value="5060"/>
Register Expires :	<input type="text" value="300"/>	Subscribe Expires :	<input type="text" value="3600"/>
Transport Type :	<input type="text" value="UDP"/>	SIP 100Rel Require :	<input type="text" value="No"/>
Session Timer Enable :	<input type="text" value="No"/>	Early Update Enable :	<input type="text" value="No"/>
Caller ID Display :	<input type="text" value="No"/>	AutoSubscribeMWIEnable :	<input type="text" value="No"/>
Server List :	<input type="text" value="Common"/>	Dns Mode :	<input type="text" value="A Record"/>
BLF List URI :	<input type="text"/>		

1. Display Name: This name will be displayed on the LCD. It will show the User ID instead if leave Display Name as blank.
2. User ID: Username of sip account.
3. Authenticate ID: Normally is the same as User ID, but blank is acceptable.

4. Password: Password of SIP account.
5. SIP Server: SIP server address, support both IP address and domain name.
6. SIP Port: SIP server port, defaults to 5060.
7. SIP Redundancy Server: SIP redundancy server address.
8. Use Outbound Proxy: Select "Yes" or "No" to enable or disable outbound proxy.
9. Outbound Proxy Server: Set address of Outbound proxy server. All signaling requests will be sent to outbound proxy server firstly.
10. Outbound Proxy Port: Outbound proxy server port.
11. Register Expires: Register expiration time, defaults to 300 seconds.
12. Subscribe Expires: Subscriber expiration time, defaults to 3600 seconds.
13. Transport Type: UDP/TCP/TLS. Defaults to UDP.
14. SIP 100Rel Require: Select "Yes" or "No" to enable or disable 100Rel. If enabled, 100rel parameters will be added to the SIP request to support PRACK.
15. Session Timer Enable: Select "Yes" or "No" to enable or disable Session Timer.
16. Early Update Enable: Select "Yes" or "No" to enable or disable Early Update.
17. Caller ID Display: Select "Yes" or "No" to enable or disable Caller ID display
18. AutoSubscribeMWIEnable: Select "Yes" or "No" to enable or disable SubscribeMWI
19. Server List: Choose the server type.
20. DNS Mode: Choose the DNS mode
21. BLF List URI: Set BLF list URI when A11(0) cooperates with Broadworks (Broadsoft).

## ➤ Codec Configuration

### Codec Configuration

G711A:	<input type="checkbox"/> Yes	G711U:	<input type="checkbox"/> Yes
AVT:	<input type="checkbox"/> Yes	G722:	<input type="checkbox"/> Yes
G723:	<input type="checkbox"/> Yes	G729ab:	<input type="checkbox"/> Yes
iLBC:	<input type="checkbox"/> Yes	G726-16:	<input type="checkbox"/> Yes
G726-24:	<input type="checkbox"/> Yes	G726-32:	<input type="checkbox"/> Yes
G726-40:	<input type="checkbox"/> Yes	Lin16:	<input type="checkbox"/> Yes
Prefer Codec:	<input type="text" value="G711u"/>	User Prefer Codec Only:	<input type="checkbox"/> No
DTMF Tx Method:	<input type="text" value="RFC2833"/>		

1. Prefer Codec: Select a preferred codec for all calls. Defaults to G711u. Conversation will be set up by the prefer codec preferentially if this codec also supported by the remote end. However, the actual codec used in a call still depends on the outcome of the codec negotiation protocol.
2. User Prefer Codec Only: Only use the preferred codec for all calls. The call will fail if this codec not supported by the remote end.

- DTMF Tx Method: Select the method to transmit DTMF signals to the remote end: Inband, RFC2833, SIP INFO. Defaults to RFC2833.

## ➤ Call Feature Setting

Call Feature Settings

Message Waiting :	<input type="text" value="Yes"/>	Voice Mail Number :	<input type="text"/>
Pickup Service Code :	<input type="text" value="*8"/>		
UDP Keep Alive Enable :	<input type="text" value="No"/>	UDP Keep Alive Intvl :	<input type="text" value="15"/>
Default Ring :	<input type="text" value="2"/>		
SRTP :	<input type="text" value="No"/>		

- Message Waiting: Select "Yes" or "No" to enable or disable indication of new voicemail existed.
- Voice Mail Number: Set voicemail number.
- Pickup Service Code: Set Pickup Service Code.
- UDP Keep Alive Enable: Select "Yes" or "No" to enable or disable UDP keep alive. If enabled, A11(0) sends UDP packets periodically to keep the server port alive.
- UDP Keep Alive Intvl: Set interval to send UDP packets.
- Default Ring: Set default ring tone.
- SRTP: Select "Yes" or "No" to enable or disable SRTP (Secure Real Time Control Protocol). This feature will be available only when the server supports SRTP.

## ➤ Dial Plan

### Dial Plan

Dial Plan :

Dial Plan: Configure dial rule for SIP account, please refer to [dial plan](#).

## 4.5 Phone Setting

### 4.5.1 Preference

#### Output Volume(1~8)

Handset Volume:  SpeakerPhone Volume:   
 Headset Volume:  Ring Volume:

#### Input Gain

Handset Gain:  SpeakerPhone Mic Gain:   
 Headset Gain:

#### LCD

Backlight Level:  Backlight Time(Seconds):   
 Contrast:  Keypad Password:

#### Control Timer Values(Seconds)

Interdigit Long Timer(1~64):  Interdigit Short Timer(1~64):   
 Reorder Delay(0~60):  Reorder Time(0~60):

#### Watch Dog

Watch Dog:

#### ➤ Language

Support customizable multi-language.

#### ➤ Output Volume(1~8)

1. Handset Volume: Specify handset volume grade
2. SpeakerPhone Volume: Specify speaker volume grade
3. Headset Volume: Specify headset volume grade
4. Ring Volume: Specify ring tone volume grade

#### ➤ Input Gain

1. Handset Gain: Specify handset gain, the bigger the gain, the louder the other party heard.
2. SpeakerPhone Mic Volume: Specify speaker gain, the bigger the gain, the louder the other party heard.
3. Headset Volume: Specify headset gain, the bigger the gain, the louder the other party heard.

#### ➤ LCD

1. Backlight Level: select the backlight level
2. Backlight Time(Seconds): select the backlight time
3. Contrast: select the contrast level
4. Keypad Password: set keypad access password

## ➤ Control Timer Values(Seconds)

1. Interdigit Long Timer: If the numbers or characters input have not finished and do not full matched the dial plan, it will be not dialed out automatically until time out. Range: 0 – 64 sec
2. Interdigit Short Timer: If the numbers or characters input are full matched the dial plan, it will be dialed out automatically until time out. Range: 0 – 64 sec
3. Reorder Delay: It means the delay between the remote end hangs up and reorder tone is played. "0" means the reorder tone will be played immediately. Range: 0 – 60 sec
4. Reorder Time: Set the duration about how long the page of Calling-end displayed

## ➤ Watch Dog

Monitor the phone if appears any abnormal phenomena, the default button is enable.

## ➤ Date And Time

### Date And Time

#### NTP

NTP Server :

Time Zone :

#### Manual

Set Local Date(YYYY/mm/dd) :

Set Local Time(HH:mm:ss) :

### Daylight Saving Time

Daylight Saving Time :

Daylight Saving Time Rule :

### NTP: Network time protocol

1. NTP Server: Set NTP server address, IP address or domain name are both acceptable.
2. Time Zone: Choose your own time zone.
3. Daylight Saving Time: Select "Yes" or "No" to enable or disable Daylight saving time.
4. Daylight Saving Time Rule: This parameter is a rule with three fields, each field is separated by semicolon; as show below:  
Start=<start-time>; end=<end-time>; save=<save-time>

<start-time> and <end-time> specify the start and end date of daylight saving time, month/date/week and <save-time> is the amount of hour/min/sec to add to the current time during daylight saving period. The <save-time> value can be preceded by a negative (-) sign if subtraction is desired instead of addition.

If <weekday > is 0, it means the date to start or end daylight saving is at exactly the given date. In that case, the <day> value must not be negative. If <weekday > is not zero, then the daylight saving starts or ends on the <weekday > on or after the given date if <day> is positive, or on or before the given date if <day> is negative. If <day> is -1, it means the <weekday> on or before the end-of-the -month (in other words the last occurrence of <weekday> in that month)

Optional values inside [] are assumed to be 0 if they are not specified. Midnight means 0:0:0 of the given date.

E.G. start=4/1/7/8:00:00;end=10/1/7/9:00:00;  
 save=-1 Start time is 1st April, Sunday, 8:00:00 am.  
 End time is 1st October, Sunday, 9:00:00 am.  
 The display time will be one hour early than the standard time.

### Manual

1. Set Local Date(YYYY/mm/dd): manually set local date or click  to choose local date .Format: year/month/day.
2. Set Local Time(HH:mm:ss) : manually set local time or click  to adjust local time. Format: hour/minute/second. e.g. 12:00:00.

## 4.5.2 Features

### ➤ Call Forward

**Call Forward**

Always Target:  Busy Target:

No Answer:

After Ring Time(Seconds):

1. Always Target: Every incoming call will be forwarded to this target.
2. Busy Target: The incoming call will be forwarded to this target when A11(0) is busy.
3. No Answer: The incoming call will be forwarded to this target when there is no answer.
4. After Ring Time(Seconds): After this time out, the incoming call will be forwarded to this target if no answer. Defaults waiting for 5 seconds.

The priority of Always Target is highest when Always Target, Busy Target and No Answer Target have been set. This means all the incoming call will be forwarded to the Always Target.

### ➤ Call Settings

**Call Settings**

Do Not disturb:  Call Waiting:

Block Call ID:  Block Anc Call:

Auto Answer:

**Others**

Send Key:

1. Do Not Disturb: Select "Yes" or "No" to enable or disable DND (Do Not Disturb).When DND enabled, all the incoming calls will be rejected. At this moment if Always Target or Busy Target was set, all incoming calls will be forwarded to the targets preferentially.
2. Call Waiting: When A11(0) is on calling, and Call Waiting enabled , any new incoming calls will not be rejected but ringback tone can be heard by the remote end. if Call Waiting disabled, only one conversation will be available even multi-accounts have been registered on A11(0) .
3. Block Call ID: Select "Yes" here, Caller ID will be blocked, A11(0) will call others as anonymous.

4. Block Anc Call: Select "Yes" here, all anonymous call will be blocked, A11(0) will reject all anonymous callers.
5. Auto Answer: Select "Yes" here, A11(0) will answer all incoming calls by speaker automatically.
6. Send Key: Define the Send key as "\*" key or "#" key. Press "\*" Key or "#" Key follow those phone number you want to dial, then number will be dialed out immediately.

### 4.5.3 Voice

Preference	
Features	
<b>Voice</b>	
Ring	
Tone	

**Echo Cancellation**

VAD:  CNG:

**Jitter Buffer**

Type:

Min Delay:  Max Delay:

Normal Delay:

#### Echo Cancellation

1. VAD: Select "Yes" or "No" to enable or disable VAD (Voice Active Detection). If enable, RTP packets will not be sent when A11(0) is mute.
2. CNG: Select "Yes" or "No" to enable or disable CNG (Comfort Noise Generator). If enable, comfortable noise will be sent to the remote end to let it perceive the conversation is still active when A11(0) is mute.

#### Jitter Buffer

A11(0) is able to buffer incoming voice packets to minimize out-of-order packet arrival. This process is known as jitter buffer.

1. Type: Choose type of jitter buffer. When choose Fixed, the size of jitter buffer is fixed. When choose Adaptive, the size of jitter buffer is the sum of Minimum Delay and the size of RTP packets.
2. Min Delay: The minimum delay of the jitter buffer.
3. Max Delay: The maximum delay of the jitter buffer.
4. Normal Delay: This is used to set fixed jitter buffer which should be between Min Delay and Max Delay.

### 4.5.4 Ring

Preference	
Features	
Voice	
<b>Ring</b>	
Tone	

Notes: Ring tone must be wav file, 8k sampling rate, 8 Bit u-law compression. File size should < 200Kbytes

Upload Ring Tone  未选择文件

Ring Tone Type

Administer can upload 2 user define ring. The ring file should be wav (8k, 8bit, u-law) and no larger than 200 KBytes.

## 4.5.5 Tone



[Basic](#)
[Network](#)
[SIP](#)
[Account](#)
[Phone](#)
[Update](#)
[Phonebook](#)
[Call Log](#)

---

Preference

Features

Voice

Ring

Tone

### Tone

**Country Stands:**

**Dial Tone:**

**Outside Dial Tone:**

**Busy Tone:**

**Reorder Tone:**

**Off Hook Warning Tone:**

**Ring Back Tone:**

**MWI Dial Tone:**

**Holding Tone:**

**Conference Tone:**

Set the ToneScript for each tone.

For example, MWI Dial Tone: [350@-30,440@-30;2\(.1/.1/1=2\);10\(\\*0/1+2\)](#)

Frequency1, Frequency2 ;Cadence Section1;Cadence Section2

[350@-30](#): Frequency1 is 350HZ at -19dBm

[440@-30](#): Frequency2 is 440HZ at -19dBm

[2\(.1/.1/1=2\)](#): Cadence Section length is 2s, 0.1s on, 0.1s off, with frequencies 1 and 2

[10\(\\*0/1+2\)](#): Cadence Section length is 10s, always on(\* means always, 0 means never), with frequencies 1 and 2.

1. Country stands: Select a country standard tone as default.
2. Dial Tone: The prompting audio to remind user to enter a phone number for dialing
3. Outside Dial Tone: The prompting audio to remind user to enter an external phone number (versus an internal extension). This is triggered by a “,” character encountered in the dial plan.
4. Busy Tone: The promoting audio when a 486 RSC is received for an outbound call.
5. Reorder Tone: The promoting audio when an outbound call failed or after the remote end hangs up an established call.
6. Off Hook Warning Tone: The promoting audio when user does not put the handset on the cradle properly.
7. Ring Back Tone: The promoting audio when the remote end is ringing.
8. MWI Dial Tone: The promoting audio when an unread voicemails existed.
9. Holding Tone: Indicate the local end that the current calling is hold by the remote end.
10. Conference Tone: The promoting audio to all parties when a 3 way conference is in progress.

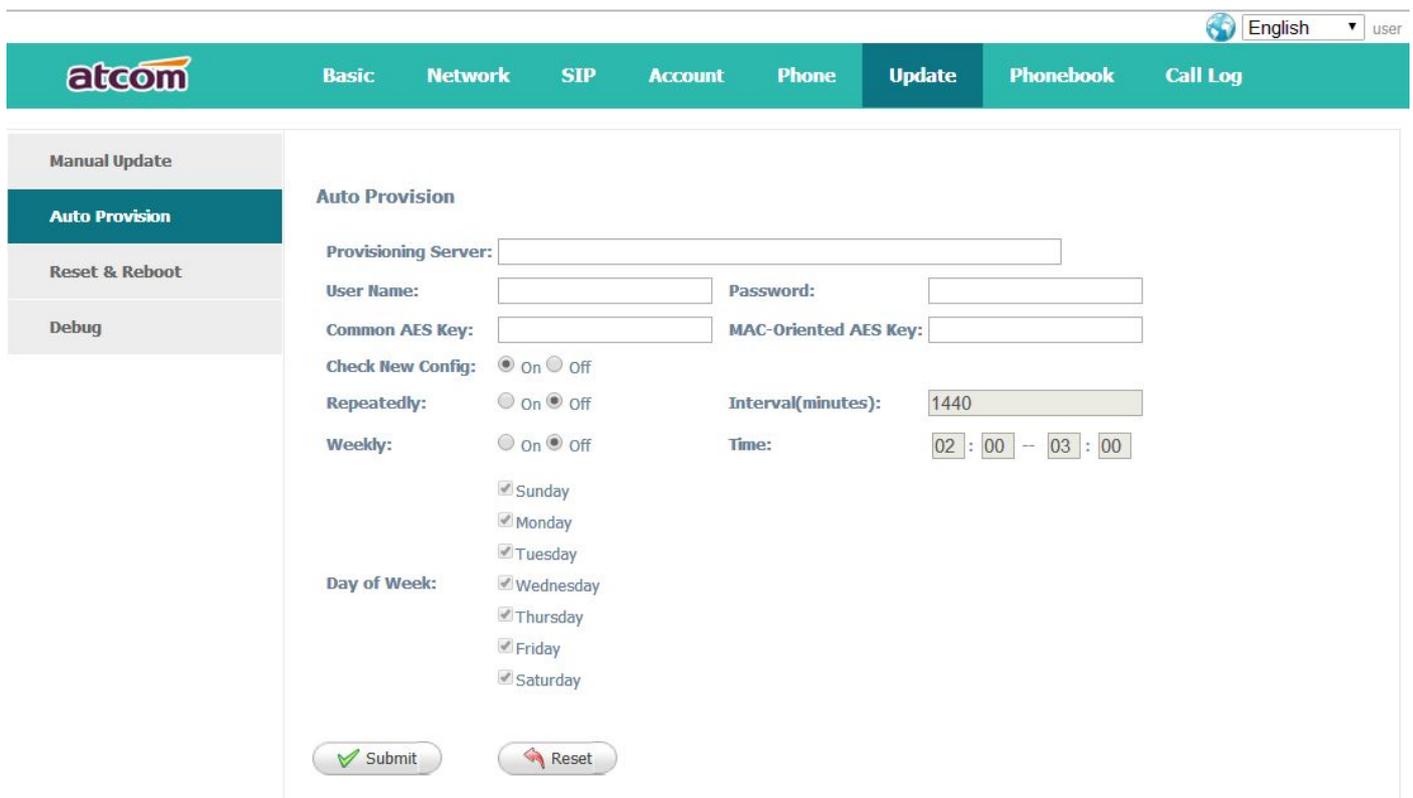
## 4.6 Update

### 4.6.1 Manual Update



1. Firmware: Download firmware from ATCOM's webpage, then select firmware from your PC to upgrade.
2. Configuration: Upload and download config.xml file.
3. Phone Book: Upload and download phonebook.xml file

### 4.6.2 Update/Auto Provision



### Configuration Profile

1. Provisioning Server: The address to save control file for auto upgrading, it can filled by http 、 https、 tftp server、 ftp server.
2. User Name: The user name to access the file server

3. Password: The password to access the file server
4. AES Key: If the configuration file has been encrypted, the AES key will be used to decrypt for auto-upgrading
5. Check New Config: If set this parameter as "On", the phone will do some check for upgrading, and it will upgrade automatically once the conditions are met
6. Repeatedly: If set this parameter as "On", the phone will do some check for upgrading after "Interval(minutes)", and it will upgrade automatically once the conditions are met
7. Interval(minutes) : This parameter is configurable once the Repeatedly is "On"
8. Weekly: If set this parameter as "On", the phone will do the check for upgrading at a certain time in every week
9. Time: The time range that the phone do the check for upgrading every week, and it's configurable once the Repeatedly is "On"
10. Day of week: The day of week that the phone do the check for upgrading every week, and it's configurable once the Repeatedly is "On"

### 4.6.3 Reset & Reboot

#### 1. Reboot

Reboot will terminate all active calls, and restart the phone in a several seconds.

#### 2. Reset

Click the "Reset" button will set A11(0) to factory default, please backup the config.xml, phonebook.xml and attendant\_keypad.xml before reset.

### 4.7 Phone Book

	Mode	Name	Number	
1	Contact	Enuice	8003	Delete
2	Contact	yulei	8010	Delete

1. New Contact: Add a new phonebook record.

2. Delete All: Delete all the phonebook records.

3. Mode: Contact or Blacklist. All calls from Blacklist will be rejected.
4. Name: Specify a name for each phone number. This name will be displayed on LCD when call to this number or call from this number.
5. Number: Phone number.
6. Submit: Submit to apply the change.
7. Reset: Cancel the inputting.
8. Delete: Delete this record.

Notice: The maximum of records in the phone book is 1000.

## 4.8 Call Log

Dialed	Received	Missed
Dialed	Received	Missed
	Received	Missed
		Missed

Delete All			
	Name	Number	Time
1:	5039	5039	20/02 11:40
2:	5032	5032	20/02 11:39
3:	5069	5069	20/02 11:39

Dialed	Received	Missed
Dialed	Received	Missed
		Missed

Delete All			
	Name	Number	Time
1:	5039	5039	20/02 11:40
2:	IP Call	172.16.0.116	20/02 11:40
3:	5069	5069	20/02 11:39

Dialed	Received	Missed
Dialed	Received	Missed

Delete All			
	Name	Number	Time
1:	5039	5039	20/02 11:40
2:	IP Call	172.16.0.116	20/02 11:40
3:	5069	5069	20/02 11:39

1. Redial: Record of dialed list, maximum 200 records.
2. Received: Record of received list, maximum 200 records.
3. Missed: Record of Missed list, maximum 200 records.

## 5. FAQ & Trouble Shooting

### Frequently Asked Questions

#### 5.1 How to make a factory reset

There are three ways to make a factory reset:

1.Factory reset from keyboard, steps are:



- a) Press  and input password 123.
- b) Find and select '12 Factory Reset'.
- c) Press 'OK' key, then the phone will be restarted automatically and factory reset.

2.Factory reset through web, please refer to [Reset & Reboot](#);

3. Factory reset during rebooting, steps are:

- a) Press '\*' and '#' key immediately after plugging in the power adapter.
- b) Wait for about 5 seconds, A11(0) will be reset to factory default setting after rebooted.

#### 5.2 Upgrade firmware under safe mode

If the phone could not start up normally, please upgrade firmware under safe mode. Steps are:

1. Build a TFTP server and set its IP address as 192.168.1.200.
2. Copy the firmware to the root directory of the TFTP server and modify the file name as A11(0).FW.
3. Make sure the TFTP server and the phone are connecting with the same switch and reachable to each other;
4. Keep pressing '#' key and start up the phone until the LCD displays 'Upgrading...';
5. The phone will download the firmware from the TFTP server;
6. After the download is done, the phone will upgrade automatically;
7. After the update is finished, the phone will start up with the factory configuration.

#### 5.3 How to make direct IP call

When hook off/ pressing speaker or headset key,

1. Press soft key 'Num' until it switch to 'IP'.
2. Using '\*' key to input '.'. If user wants to dial 192.168.1.100, then press 192\*168\*1\*100.
3. After inputting the IP address, press dial key to dial it out.

## 6. Trouble Shooting

### 6.1 The phone can't register successfully

1. Check the IP address, and if the mode of WAN port is DHCP, please make sure the DHCP server is in service.
2. Check the gateway.
3. Check the DNS.
4. Make sure the information of the account is consistent with which offered by the service supplier.
5. Make sure the SIP server is on.
6. Check the port of the SIP server whose default value is 5060.

### 6.2 The phone can't obtain IP address

1. Make sure the cable has been connected to the LAN port of the phone.
2. Make sure the cable and the switch's port that connected with the cable is available.
3. Make sure the DHCP server is on and there are some assignable IP addresses in the address pool.
4. Try to change the LAN port mode as Static.

### 6.3 Only one part can hear the voice during the call

1. Make an IP dial-up call to make sure the telephone receiver and microphone are normal.
2. Enable STUN on web page.
3. Set STUN server as `stun.sipgate.com`.
4. Click 'submit' and wait for the phone to restart.
5. Try to make calls again.

## 7. Abbreviations

DND : Do Not Disturb  
CFWD : Call Forward  
Bxfer : Blind Transfer  
Conf : Conference  
Num : Number  
DelChr : Delete Char  
Y/N : Yes/No  
SIP: Session Initiate Protocol  
RTP: Real-time Transport Protocol  
SDP: Session Description Protocol  
VPN: Virtual Private Network  
VLAN: Virtual Local Area Network  
QoS: Quality of Service  
Syslog : System log  
UDP: User Data Protocol  
TCP: Transmission Control Protocol  
TLS: Transport Layer Security Protocol  
BLF: Busy Lamp Field  
DNS: Domain Name System  
SRTP: Secure Real-time Transport Protocol  
NTP: Network Time Protocol  
VAD: Voice Activity Detection  
CNG: Comfort Noise Generator