



3rd Generation WIFI



Air Conditioner Remote Access Modules

January 17

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Product Introduction

How to connect WIFI air conditioner

Troubleshooting

Overview

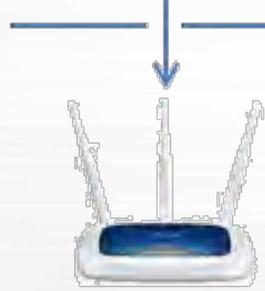
Conception

Mode

Composition



Remote
Home



WIFI



Router

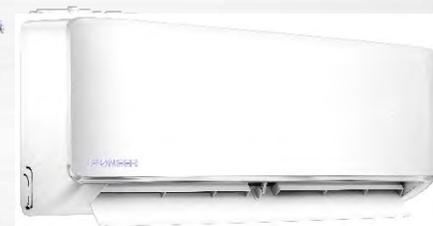
WIFI

WIFI



Android

iOS



➤ What is WIFI air-conditioner?

Air conditioners controlled by smartphone, smartpad through wireless router and internet.

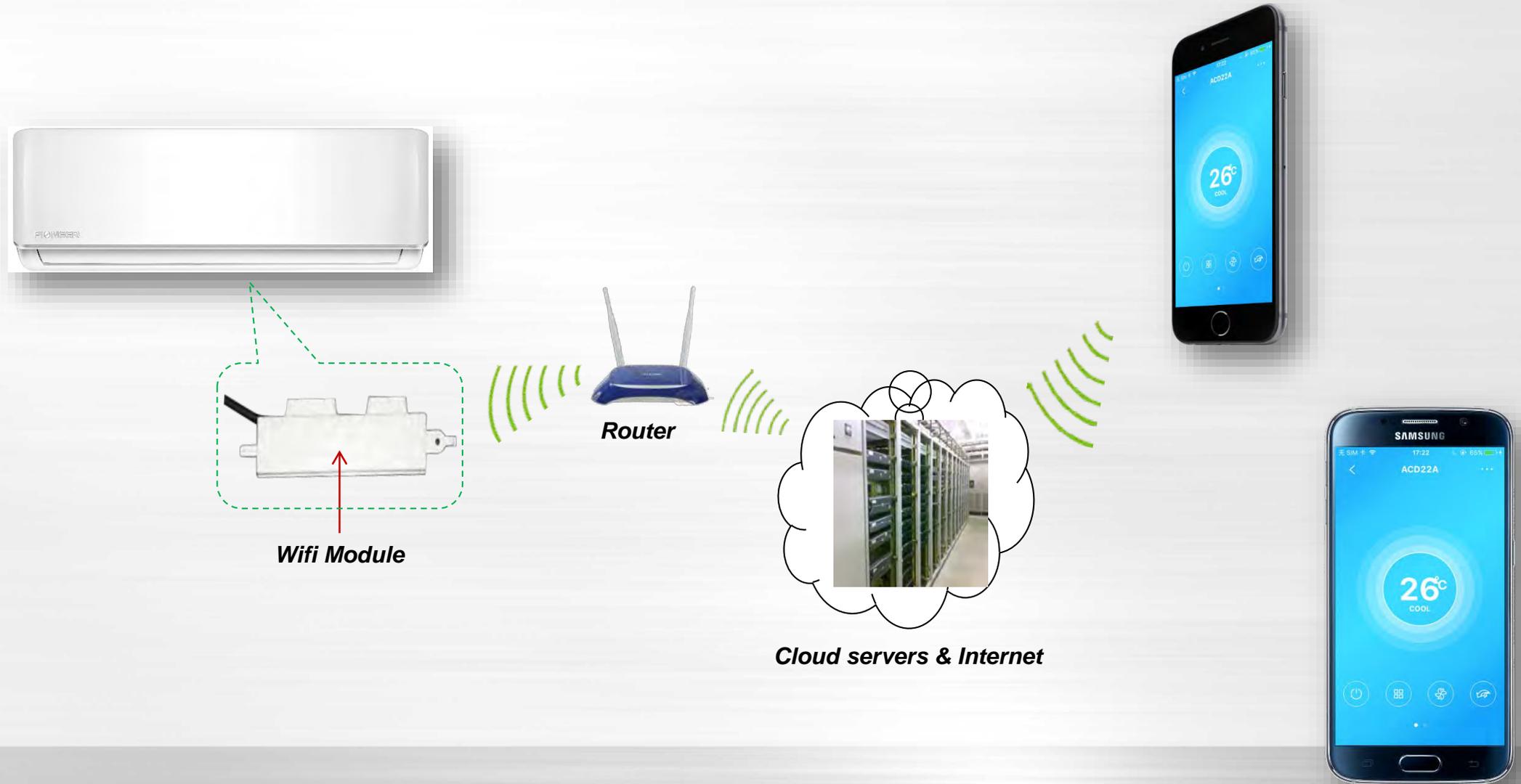
➤ Types of WIFI air-conditioner

1st Generation: Based on integrated RF module and smart control box (433Hz , only suitable in some countries).

2nd Generation: with integrated WIFI module (2.4GHz, available all over the world) made by 3rd party.

3rd Generation: with new USB WIFI module (2.4GHz, available all over the world) and new APP created.

➤ Remote Mode



Product Introduction

How to connect WIFI air conditioner

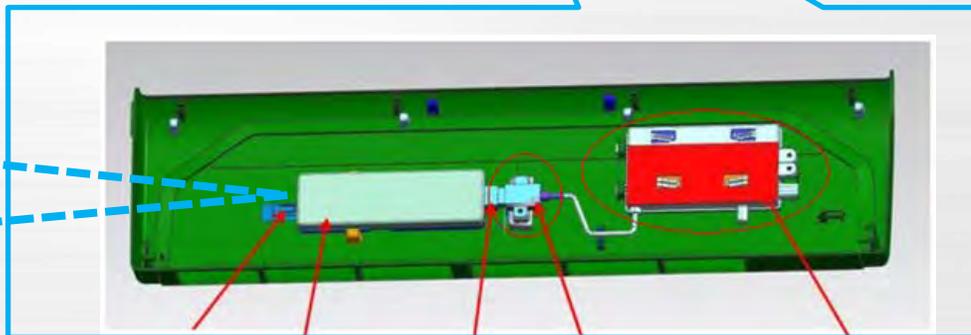
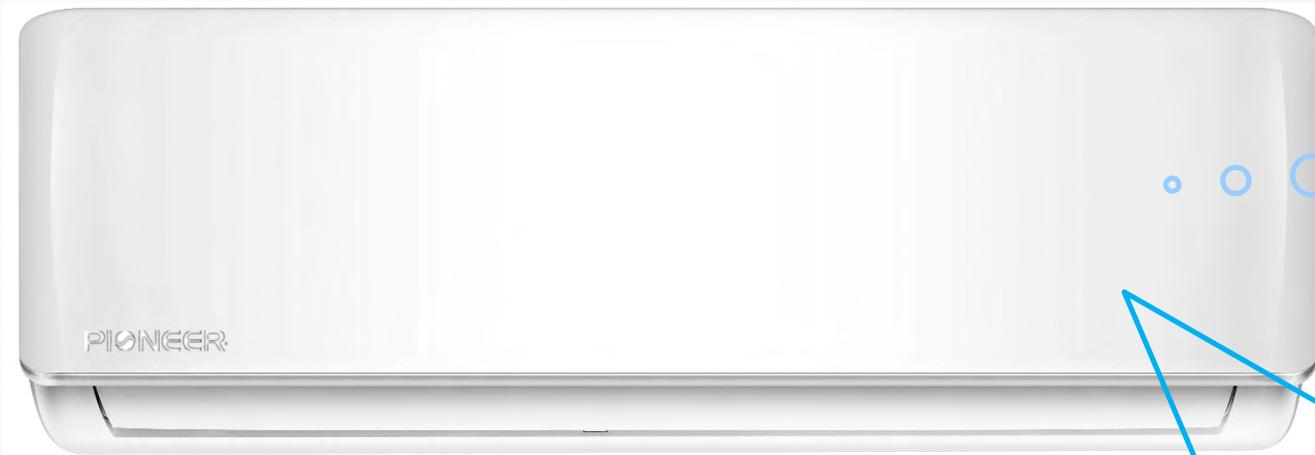
Troubleshooting

Overview

Conception

Mode

Composition



WiFi Module

USB Connection

Display Board

Standard air conditioner set does not include the USB WIFI module, it needs to be purchased separately.

Overview

Conception

Mode

Composition

● Smartphone

- Operation system: Android (above version 3.1 and but **below version 6**) or IOS (above version 6.1)
- Storage space: at least 20MB.



- *System with WIFI module*



There is QR code label on module which can identify the unit and build the connection between the Air conditioner and the Router.

The WIFI module is certified by FCC, CE and ID (Canada).

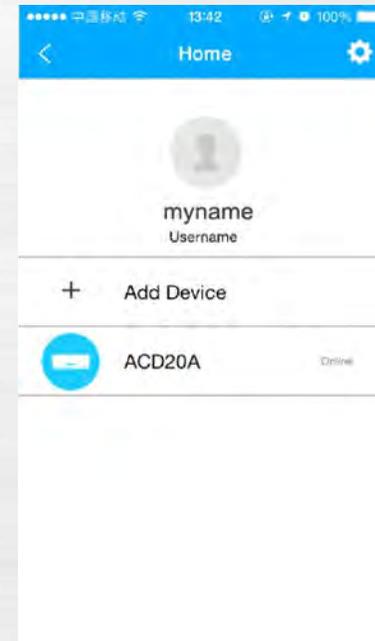
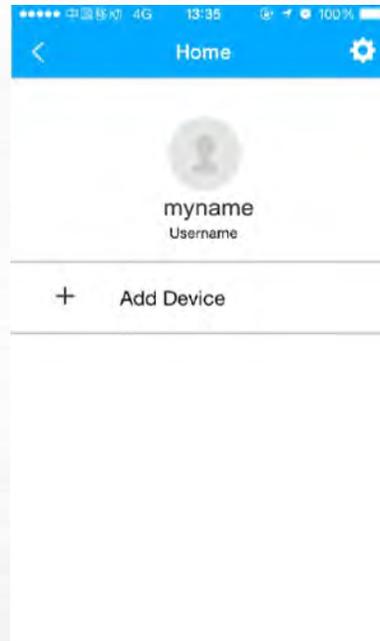
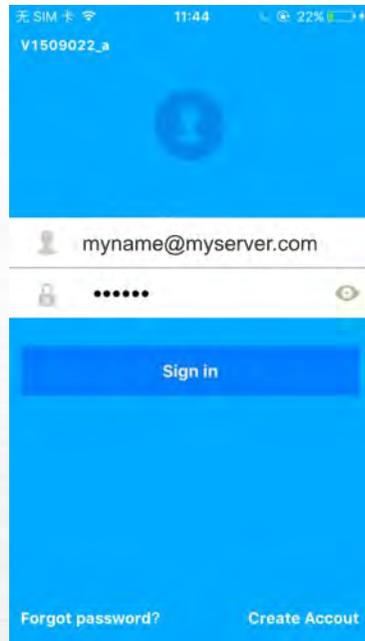


- **Wireless Router**

Any normal Home Wireless Router providing 2.4G Hz signal is suitable. But the routers providing 5G Hz signal is not supported for now. Please do not attempt to connect to 5G Hz WiFi signals.



● App

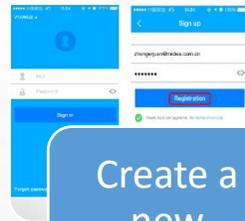


APP Interface

Device List

Operating Interface

You can download the software "NetHome Plus" from App Store for IOS system or GooglePlay® for Android system



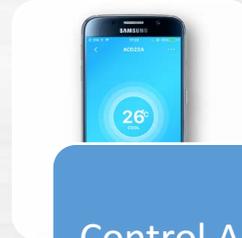
Create a new account with APP



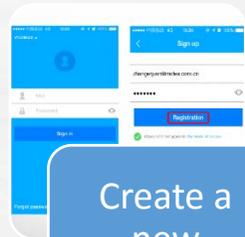
Set WIFI AC to AP mode



Connect AC to router via APP



Control AC via APP



Create a new account with APP



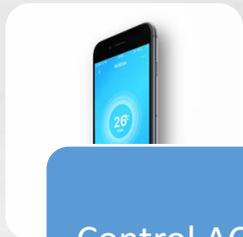
Set WIFI AC to AP mode



Make iphone connect to the WIFI AC



Connect AC to router via APP



Control AC via APP

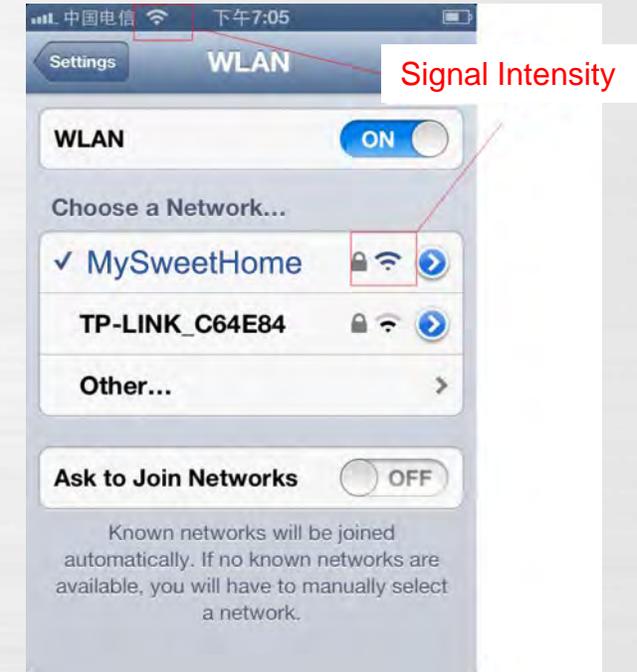
- **Before Start**

- **Check if everything is OK**

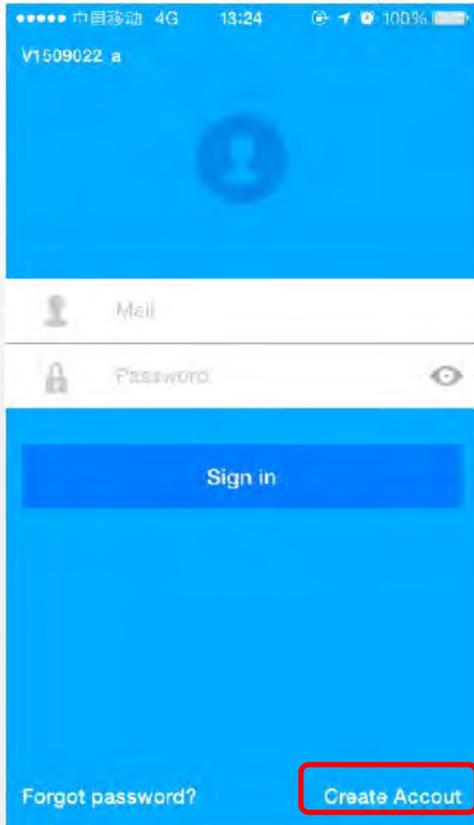
Turn on the WIFI of smartphone, check the WIFI signal to see if network is OK.

The WIFI signal should be at least one bar. Adjust the position of router to make it close to the air conditioner if the signal is too weak.

- **Get the WIFI SSID and password**



● *Register a New Account*



Start the APP and press “Create Account” button to create a new account.

The user name should be an e-mail address.

● AP mode setting

Use the present remote controller, press the [LED digital display] button no less than 7 times continuously within 3 minutes until AP appears on the panel. Note LED function is activated through the left side of this multi function button.

AP mode means the WIFI module works as a WIFI hotspot with default password "12345678".

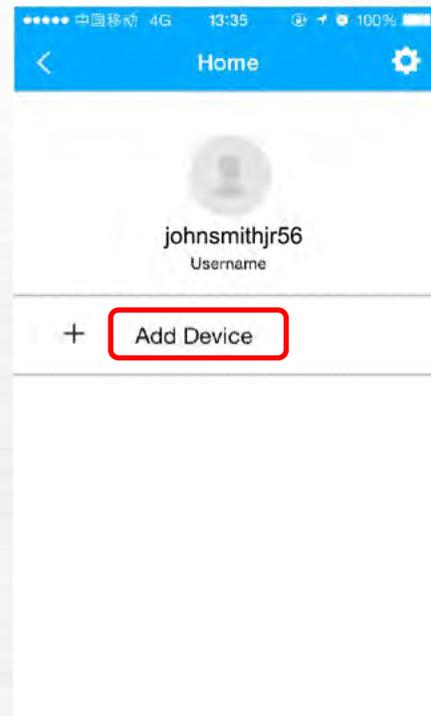
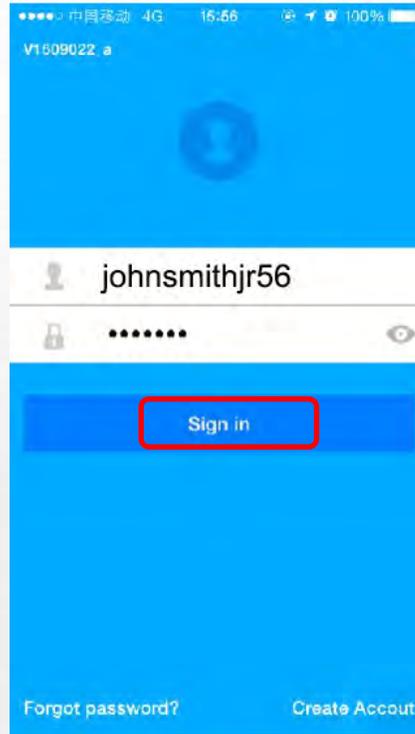


WIFI signal display from the panel



- **Building connection between Air-conditioner and Router via APP**

Input the username and password , click “ Sign in ” button , click “Add Device” , then Scan QR Code which provides connection with WIFI module.



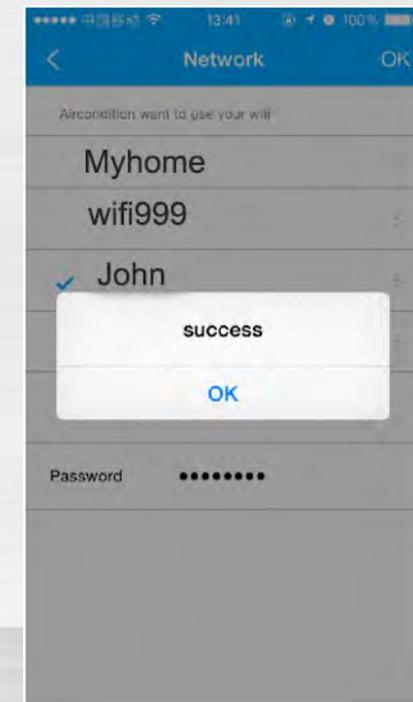
Note: Make sure your smartphone is connected to your own WIFI router when setting (not 3G/4G).

- **Building connection between Air-conditioner and Router via APP**

When you use an Android device:

- ◆ APP will connect to network directly, choose your Router name, enter the correct password, press the “OK” button , Now connection will be established.

NOTE: If you input a wrong password, there will be no error information. Start from “Set AP mode” again if you find there is no response for a long time.



- **Building connection between Air-conditioner and Router via APP**

When you have Apple device:

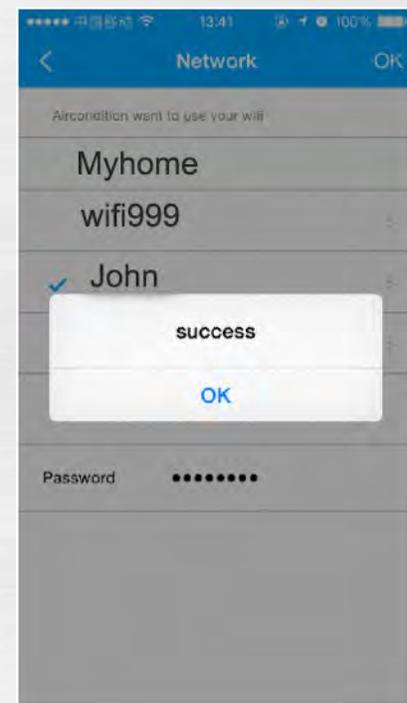
- ◆ APP will remind you to return to the setting page of IOS device to connect WIFI kit. Choose the related WIFI named with “net_ac_....” on your smart phone and enter the password: 12345678.



- **Building connection between Air-conditioner and Router via APP**

When you have Apple device:

- ◆ Then go back to APP, click “Next” button and choose your Router name, enter the correct password, press the “OK” button. Now connection will be established.



- **Building connection between Air-conditioner and Router via APP**

When you press network button to start the connection between AC and router, the WIFI module will quit AP mode and become a client of WIFI. After establishing the connection successfully, the AC will keep the connection to the router and store this information. Even there is power failure, the AC will restore this connection when power is back.

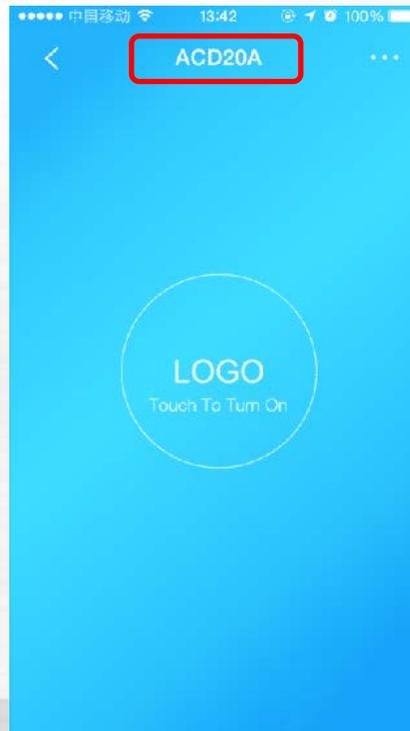
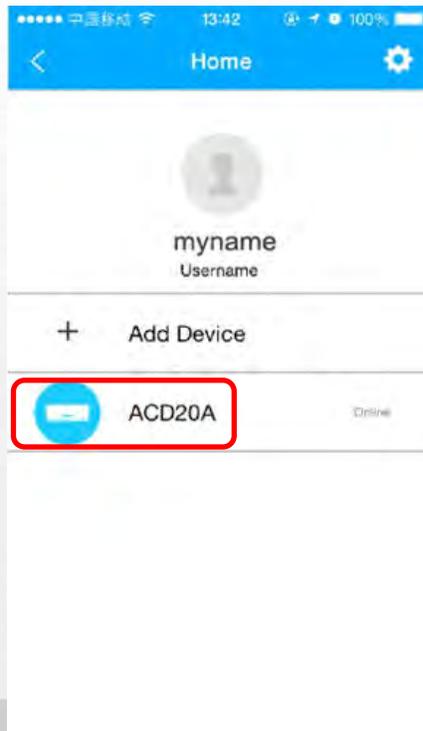
NOTE: If SSID or password of the router is reset or changed, you must re-connect the WIFI AC again from AP mode. On the contrary, if you change a new router but still set the previous SSID and password, this connection is still available.



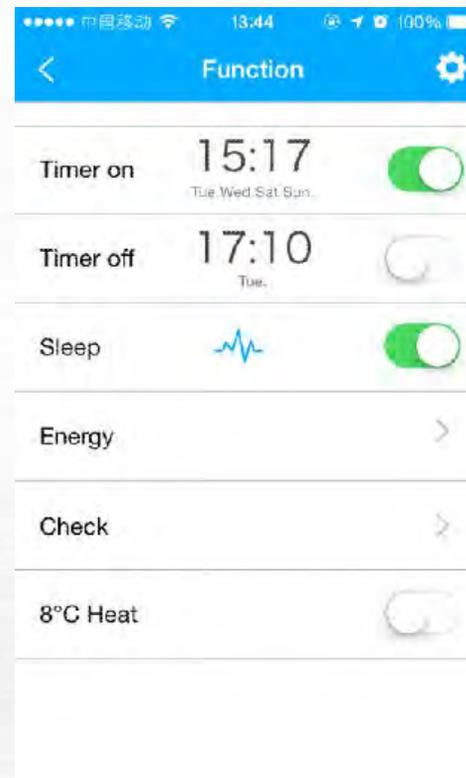
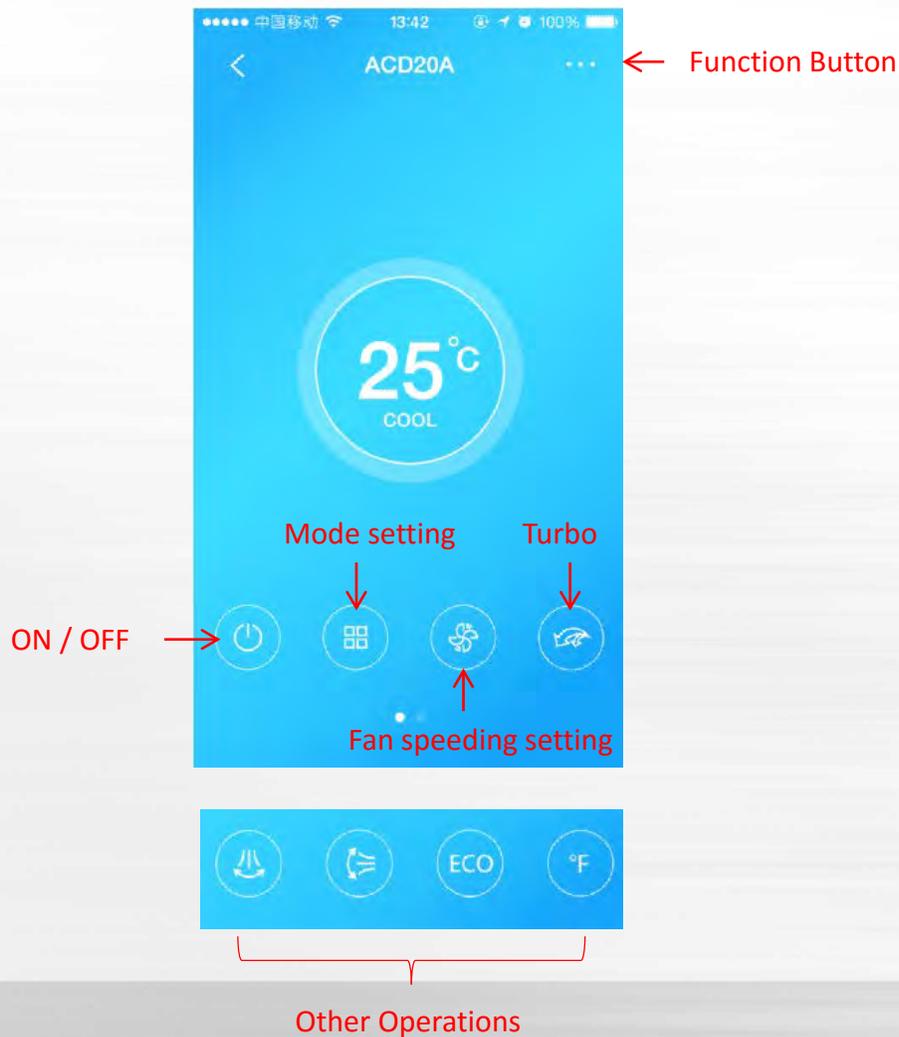
● Control AC with Smartphone

Click the device name you added, then press the “touch to turn on” button. Now you can control the unit using the phone though internet.

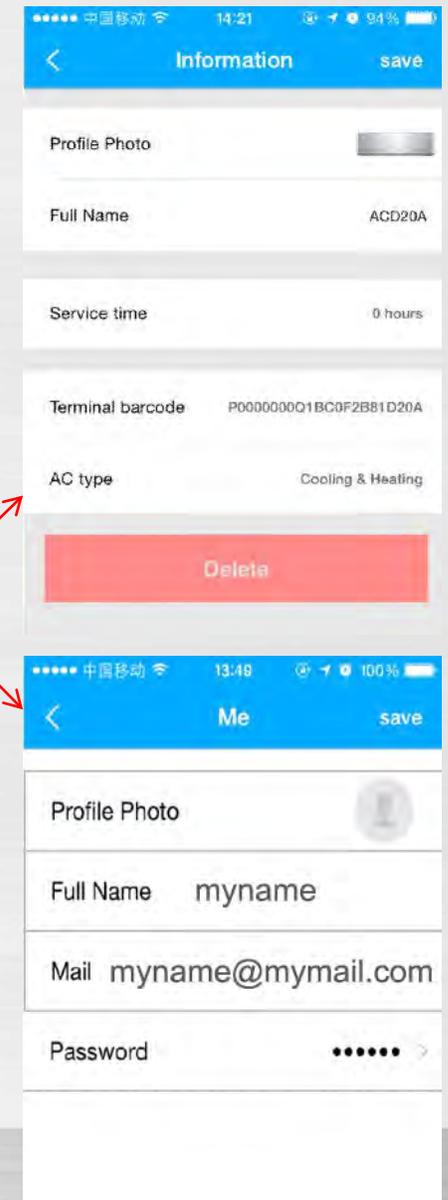
You also can login your username to control your WIFI AC by smartphone though mobile 3G/4G network if you are away from any WiFi area.



Operation Interface

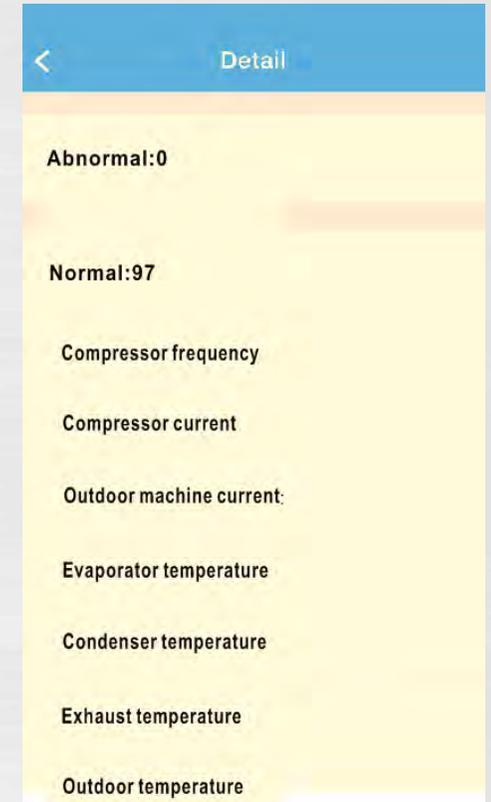
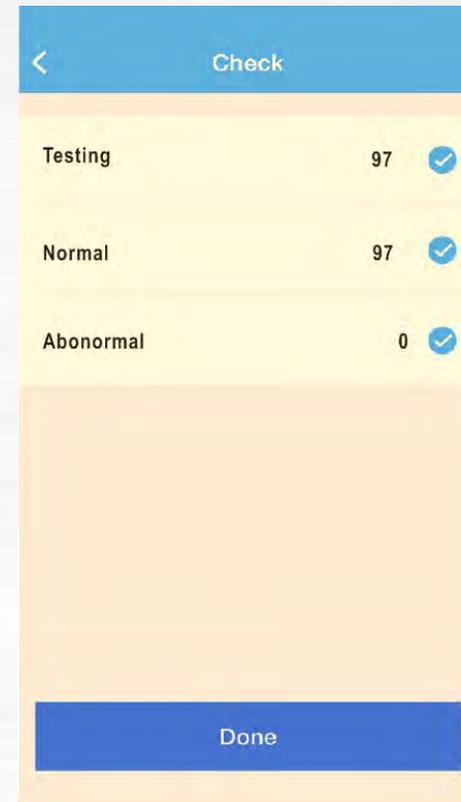
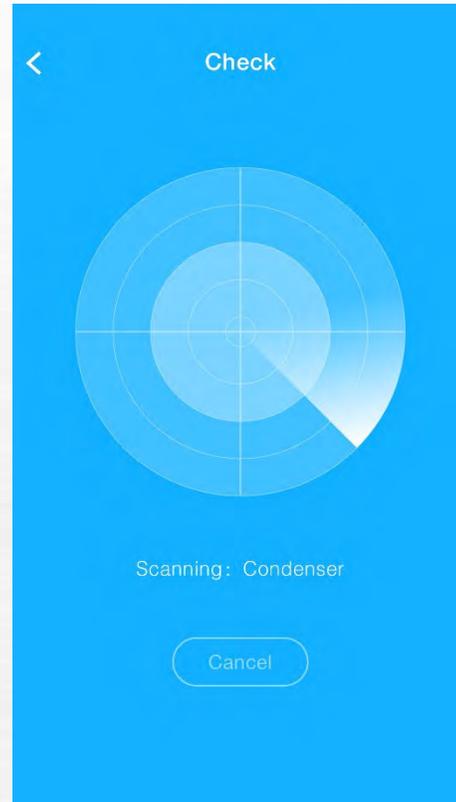
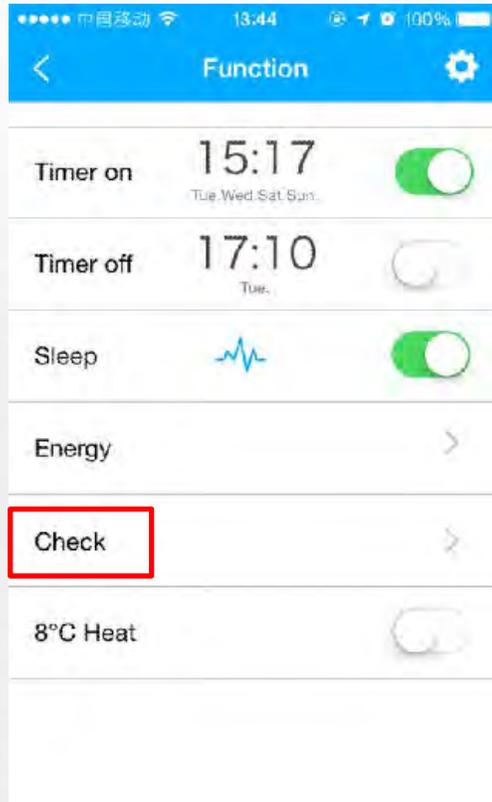


More information



Detect the AC connection condition and ERROR code

Press "Check" button to start self-check of the A/C unit, and the detailed information will be shown.



Connection failure between WIFI AC and router

Possible reasons:

1) *Wrong password inputted.*

There is no error information if you input the wrong password of router when you try to connect the WIFI AC to the router. If there is no response for a long time, please re-connect from AP mode.

2) *Composition of password*

*For now WIFI module supports the password containing **letters and numbers** only. If there are “*, @, /” symbols inside the password, the system will not connect to the router.*

3) *Unsupported encryption*

*This is about WIFI security setting of your router. There are some encryption types you can choose in normal household router such as WEP, WAP-PSK, WAP2-PSK. **WEP** is **NOT** supported.*

Supported encryption:

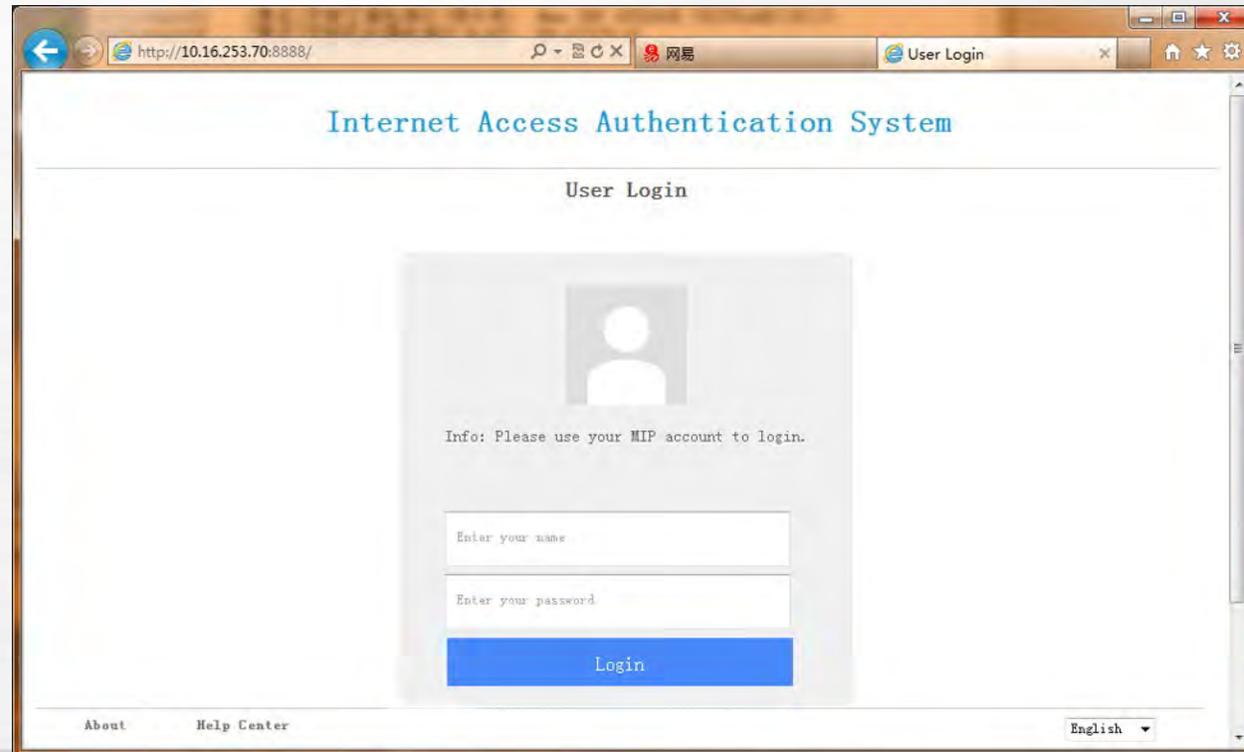
WPA2-PSK	WPA2-AES
	WPA2-TKIP
WPA-PSK	WPA-AES
	WPA-TKIP

Connection failure between WIFI AC and router

Possible reasons:

4) The WIFI that needs a **Browser Login** is **NOT** supported.

Some WIFI in public places such as shopping malls, airports, hotels, etc. needs you to input username and password through a browser to log in. This system cannot be connected through such WIFI.



Connection failure between WIFI AC and router

Possible reasons:

5) The router is set to filter MAC addresses.

This router forbids other client to connect in except for the devices in the list. You need to add MAC address of WIFI AC into this list or disable the MAC address filtering function.

Firewall > MAC address filtering

This feature lets you set up a list of allowed clients. When you enable this feature, you must enter the MAC address of each client on your network to allow network access to each. More Info

Enable MAC Address Filtering >

MAC Address Filtering List >

Block	Host	MAC Address	
1.		0022fb	Delete
2.		001e58	Delete
3.		001a4d	Delete
4.		001921	Delete
5.		0019d2	Delete
6.		001A4D	Delete
7.		001150	Delete
8.		001E58	Delete
9.		0015B7	Delete
10.		002354	Delete
1.		0022FB	Delete
2.		001ADC	Delete
3.		00237A	Delete
4.	Apple iPhone	002500	Delete

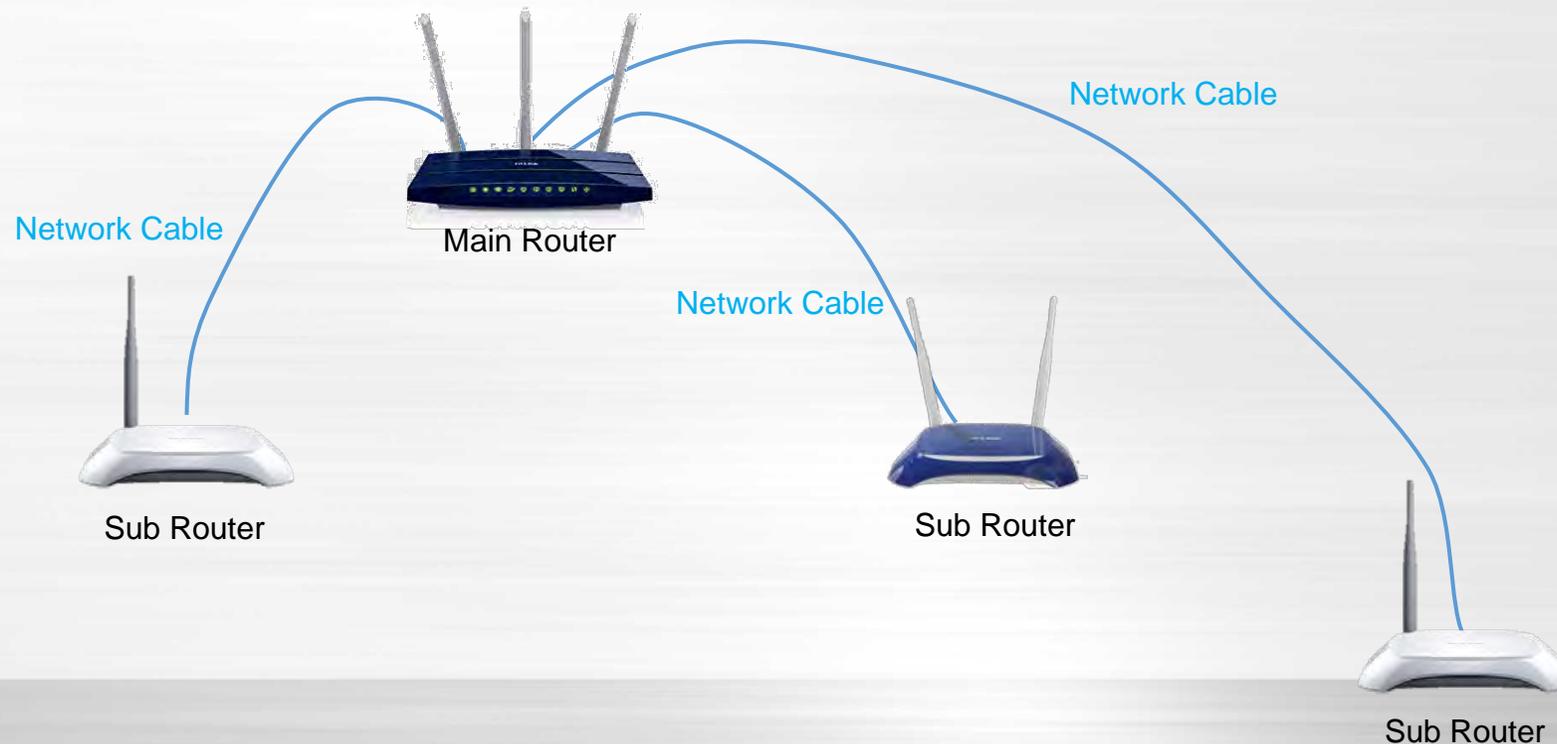
Clear Changes Apply Changes

Connection failure between WIFI AC and router

Possible reasons:

6) There are too many clients connected to the router.

Normal household router cannot support more than 8 clients connections. If connection failure is caused by this reason, reduce some clients or add routers with network cable.



Connection failure between router and Cloud Server

1) Check the internet connection.

You can connect your smartphone or a computer to the router and browse a web to see if the internet connection is OK.

3) Use browser of computer or smartphone, input

<https://app.v1.appsmb.com:8443/V2/Login.ashx> into the address bar.

If you can see the following message, your connection to the server is OK.



Note: Amazon Cloud is used as server of WIFI control service which can be reached from most countries of the world. In some countries or with carriers, restricting the connection to Amazon Cloud, you can not use this system.

LAN Setup

LAN

MAC Address:	F8-D1-11-61-E3-8A
IP Address:	<input type="text" value="192.168.0.1"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/> ▼

Save

DO NOT change anything

Wireless Setup

Wireless Settings

Wireless Network Name: (Also called the SSID)

Region: ▼

Warning: Ensure you select a correct country to conform local law.
Incorrect settings may cause interference.

Channel: ▼

Mode: ▼

Channel Width: ▼

Max Tx Rate: ▼

Enable Wireless Router Radio

Enable SSID Broadcast

Enable WDS Bridging

Use any name you can recognize and remember

Wireless Security Setup

Wireless Security

Disable Security

WEP

Type: Automatic **DO NOT use it**

WEP Key Format: Hexadecimal

Key Selected	WEP Key (Password)	Key Type
Key 1:	<input type="text"/>	Disabled
Key 2:	<input type="text"/>	Disabled
Key 3:	<input type="text"/>	Disabled
Key 4:	<input type="text"/>	Disabled

WPA/WPA2 - Enterprise

Version: Automatic

Encryption: Automatic

Radius Server IP:

Radius Port: 1812 (1-65535, 0 stands for default port 1812)

Radius Password:

Group Key Update Period: 0 (in second, minimum is 30, 0 means no update)

WPA/WPA2 - Personal(Recommended) **Recommended**

Version: Automatic(Recommended)

Encryption: Automatic(Recommended)

PSK Password:

(You can enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)

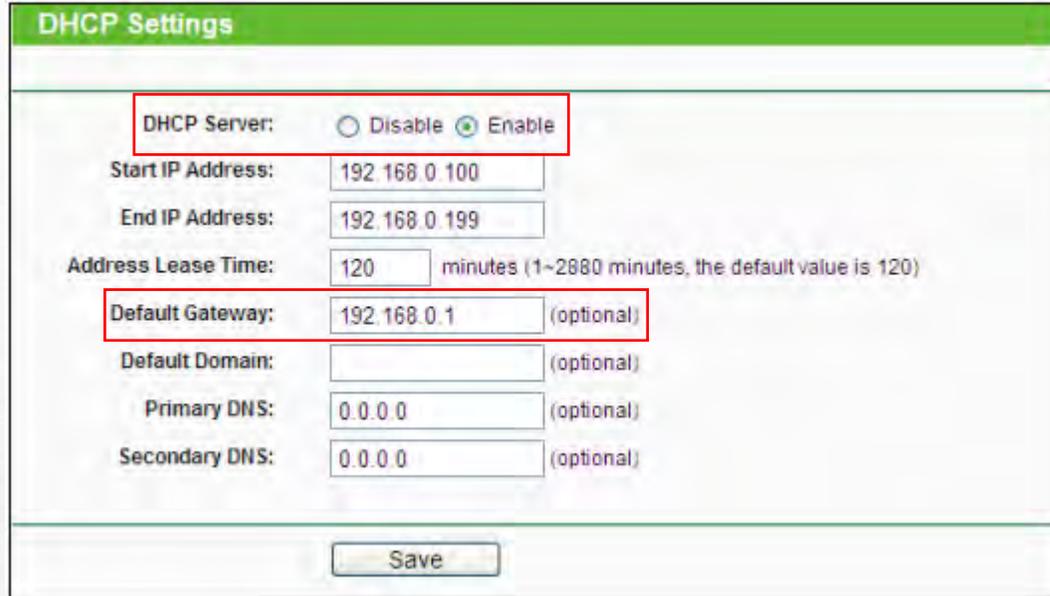
Group Key Update Period: 0 Seconds (Keep it default if you are not sure, minimum is 30, 0 means no update)

Save

Use combination of letters and numbers as password
DO NOT use any special symbols.

Gateway and DHCP Setup

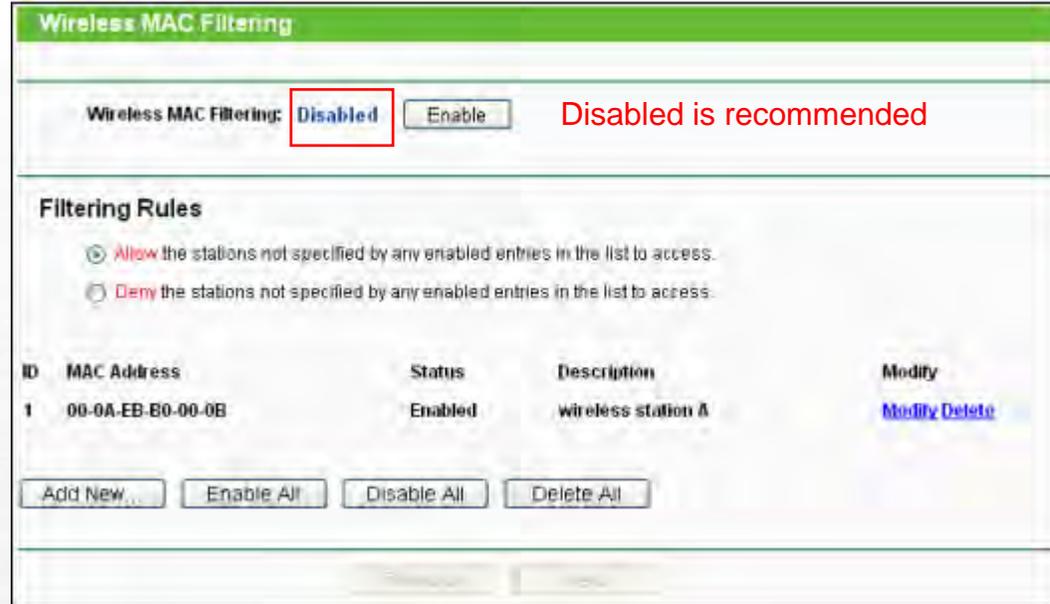
Enable DHCP server which can manage the IP address distribution of connected clients automatically.



The image shows a screenshot of a web-based configuration interface for DHCP settings. The page has a green header bar with the text "DHCP Settings". Below the header, there are several configuration fields. The "DHCP Server" field is highlighted with a red box and contains two radio buttons: "Disable" (unselected) and "Enable" (selected). Below this, there are text input fields for "Start IP Address" (192.168.0.100), "End IP Address" (192.168.0.199), and "Address Lease Time" (120 minutes). The "Default Gateway" field is also highlighted with a red box and contains the value "192.168.0.1" with "(optional)" next to it. Other fields include "Default Domain" (empty), "Primary DNS" (0.0.0.0), and "Secondary DNS" (0.0.0.0). At the bottom of the form is a "Save" button.

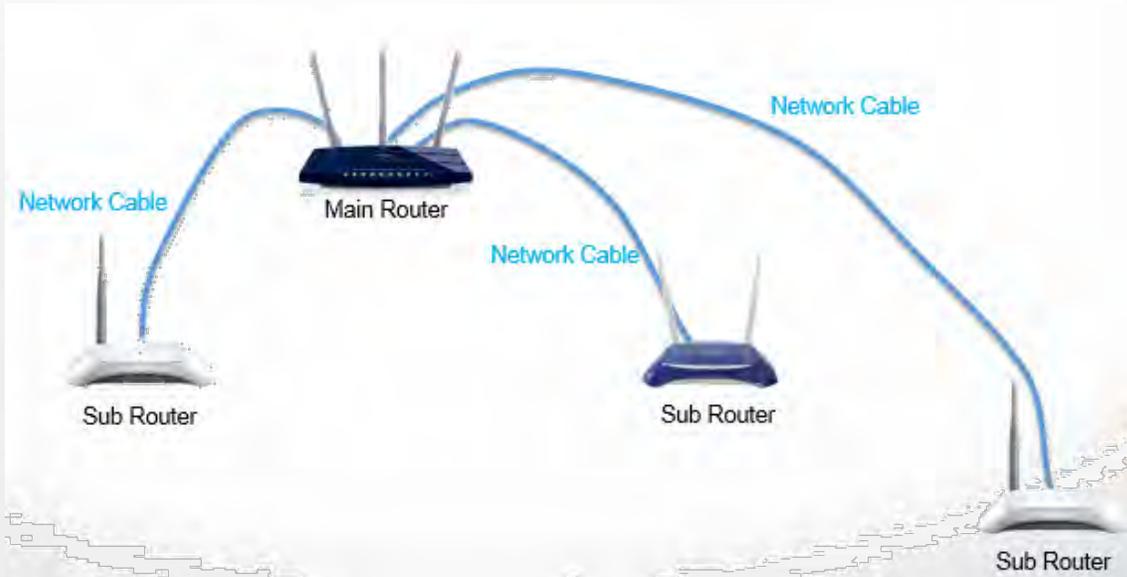
DHCP Settings	
DHCP Server:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Start IP Address:	<input type="text" value="192.168.0.100"/>
End IP Address:	<input type="text" value="192.168.0.199"/>
Address Lease Time:	<input type="text" value="120"/> minutes (1~2880 minutes, the default value is 120)
Default Gateway:	<input type="text" value="192.168.0.1"/> (optional)
Default Domain:	<input type="text"/> (optional)
Primary DNS:	<input type="text" value="0.0.0.0"/> (optional)
Secondary DNS:	<input type="text" value="0.0.0.0"/> (optional)
<input type="button" value="Save"/>	

Wireless MAC address filtering



Multi router Setup

Settings of main router is as same as above. WAN setting of sub router should as follows:



WAN

WAN Connection Type: Dynamic IP Detect

IP Address: 0.0.0.0 Choose "Dynamic IP"

Subnet Mask: 0.0.0.0

Default Gateway: 0.0.0.0

MTU Size (in bytes): (The default is 1500, do not change unless necessary.)

Use These DNS Servers

Primary DNS:

Secondary DNS: (Optional)

Host Name:

Get IP with Unicast DHCP (It is usually not required.)

Save

Multi router Setup

LAN setting of sub router should as follows



The screenshot shows a web-based configuration interface for a router's LAN settings. The title bar is green and labeled "LAN". Below it, there are three rows of configuration fields: "MAC Address" with the value "F8-D1-11-61-E3-8A", "IP Address" with the value "192.168.0.1" (highlighted by a red box), and "Subnet Mask" with a dropdown menu showing "255.255.255.0". At the bottom center, there is a "Save" button.

Change to "192.168.1.1",
If you have other sub router, set them as
"192.168.2.1", "192.168.3.1"...

Multi router Setup

Wireless Settings

Wireless Network Name: (Also called the SSID)

Region: **Must same as main router**

Warning: Ensure you select a correct country to conform local law. Incorrect settings may cause interference.

Channel:

Mode:

Channel Width:

Max Tx Rate:

Enable Wireless Router Radio

Enable SSID Broadcast

Enable WDS Bridging

Multi router Setup

Wireless Security

Disable Security

WEP

Type: Automatic

WEP Key Format: Hexadecimal

Key Selected	WEP Key (Password)	Key Type
Key 1:		Disabled
Key 2:		Disabled
Key 3:		Disabled
Key 4:		Disabled

WPA/WPA2 - Enterprise

Version: Automatic

Encryption: Automatic

Radius Server IP:

Radius Port: 1812 (1-65535, 0 stands for default port 1812)

Radius Password:

Group Key Update Period: 0 (in second, minimum is 30, 0 means no update)

WPA/WPA2 - Personal(Recommended)

Version: Automatic(Recommended)

Encryption: Automatic(Recommended)

PSK Password:

(You can enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)

Group Key Update Period: 0 Seconds (Keep it default if you are not sure, minimum is 30, 0 means no update)

Save

Recommended

Same as main router

Multi router Setup

Wireless Security

Disable Security

WEP

Type: Automatic

WEP Key Format: Hexadecimal

Key Selected	WEP Key (Password)	Key Type
Key 1:		Disabled
Key 2:		Disabled
Key 3:		Disabled
Key 4:		Disabled

WPA/WPA2 - Enterprise

Version: Automatic

Encryption: Automatic

Radius Server IP:

Radius Port: 1812 (1-65535, 0 stands for default port 1812)

Radius Password:

Group Key Update Period: 0 (in second, minimum is 30, 0 means no update)

WPA/WPA2 - Personal(Recommended)

Version: Automatic(Recommended)

Encryption: Automatic(Recommended)

PSK Password:

(You can enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)

Group Key Update Period: 0 Seconds (Keep it default if you are not sure, minimum is 30, 0 means no update)

Save

Recommended

Same as main router

Multi router Setup

The screenshot shows a 'DHCP Settings' window with the following fields and values:

- DHCP Server: Disable Enable
- Start IP Address: 192.168.0.100
- End IP Address: 192.168.0.199
- Address Lease Time: 120 minutes (1~2880 minutes, the default value is 120)
- Default Gateway: 192.168.0.1 (optional)
- Default Domain: (empty) (optional)
- Primary DNS: 0.0.0.0 (optional)
- Secondary DNS: 0.0.0.0 (optional)

A 'Save' button is located at the bottom of the form.

Change to "192.168.1.100" to "192.168.1.199",
"192.168.2.100" to "192.168.2.199",

Change to "192.168.1.1", "192.168.2.1",
"192.168.3.1"...