ALM-N245 4G MiFi

User Manual

v1.0

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Chapter 1 Introduction

1.1 Introduction

ALM-N245 is one of the MiFi products that supports CDMA /TD-LTE/LTE FDD network. The Client Terminal can be connected to ALM-N245 via Wi-Fi or USB, enabling you to enjoy the fun of high speed internet surfing anytime anywhere.

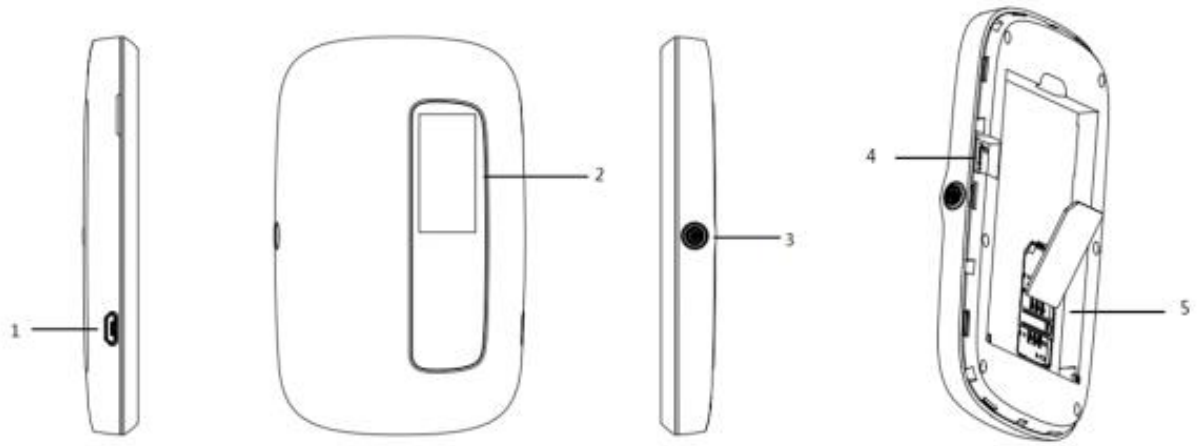
This User Manual introduces how to install and use this device. For more information about network connection service, please consult Your network operator.

Note:

Long time working of this device can cause sectional environmental temperature rising and heat generation, in that case, the device may automatically power off to realize self safety preservation. Therefore, do not place the device in a closed environment or environment with small cooling space. When this situation happens, please place the device in a ventilating space to cool it adequately, and then start the device normally.

1.2 Appearances and Parts

The appearances and parts of this product are shown in the following picture. This picture is for reference only, please prevail in kind.



1.	Charger/USB Interface	●Charger interface; ● USB interface between device and Client Terminal.
2.	LCD Display	To instruct device conditions.
3.	Power Button	● Press Power Buton to power on/off the device. ● Awake the device when it is in Steep Mode. ● Double click power key quickly to switch screen.
4.	Reset	Hardware restore factory settings,long press 3 seconds.
5.	SIM Card Slot	Used to insert the SIM card.

Note:

When the device is turned on , the LCD screen will be closed after 1 minute.

1.3 LCD Display

Indicator	Description
	Indicates network signal.
	Number of users connected through WLAN.
	Indicates battery capacity.
	Connect to CDMA-1X network.
	Connect to CDMA 2000 network.

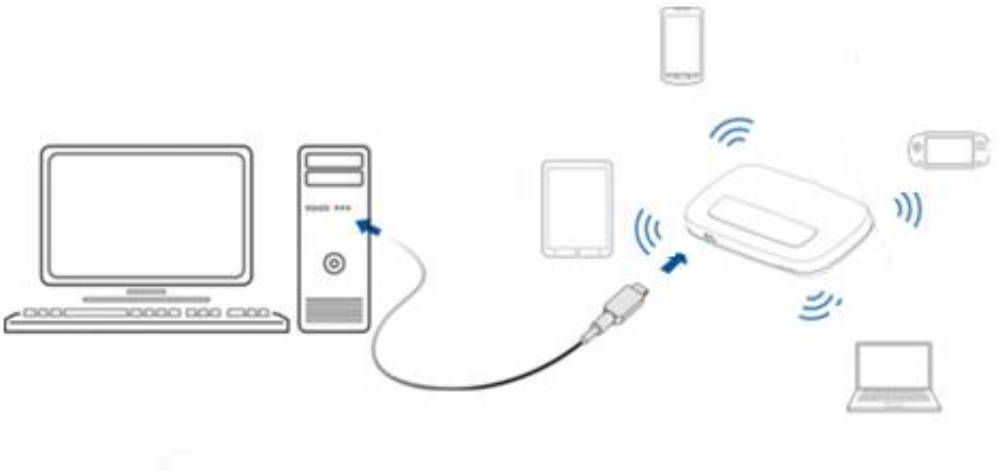
4G	Connect to TD-LTE/LTE FDD 4G network.

1.4 Packing Lists

- A host
- A USB cable
- A guarantee card
- A certificate

1.5 Application Scene

This device support multiple Client Terminals share the internet via Wi-Fi or USB. The following picture is for reference.



Remark:

1.Connect the Client Terminal to this device via Wi-Fi or USB.

2.Before connecting via Wi-Fi, make sure the Client Terminal supports Wi-Fi function.

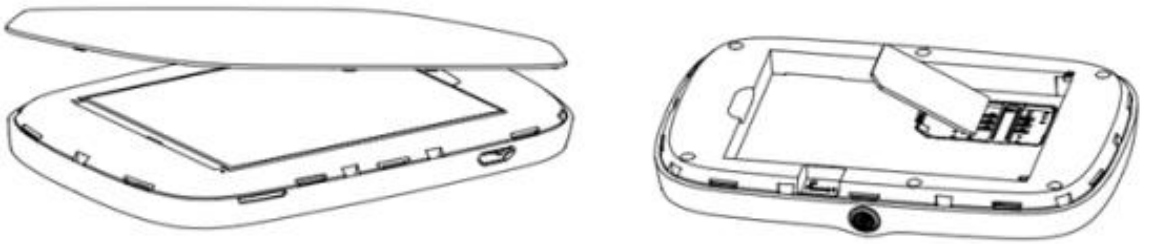
1.6 Sleep Mode

When the WLAN function is turned on and the device is powered only by battery, if no Client Terminals are connected to the device within 10 minutes, the device will enter into Sleep Mode, and the LCD display will be off. In Sleep Mode, WLAN function will be turned off, awake the device by pressing Power button, and then the LCD display will be on.

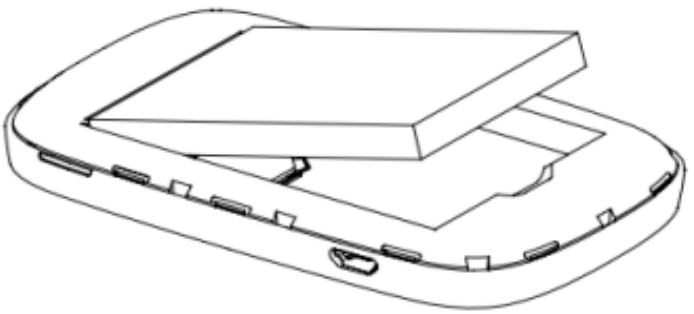
Chapter 2 Installation Instruction

2.1 Install SIM Card and Battery

1.Lift up the back cover as shown in the following picture, remove the back cover after it detaches from the clip.As shown in the following picture, insert the SIM card into SIM card slot.



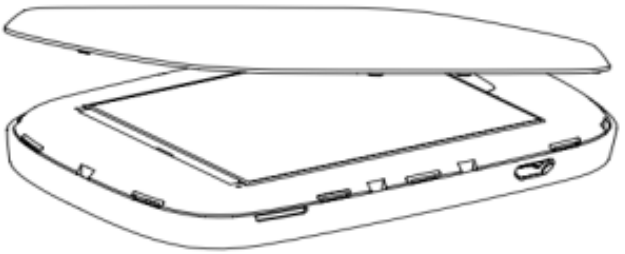
2. As shown in the following picture, place the battery into battery slot.



Remark

Please insert the metal contact end of the battery first.

3. Align the back cover with the clip, place the back cover on the device, and close the back cover as shown in the following picture.



2.2 Power on/off Your Device

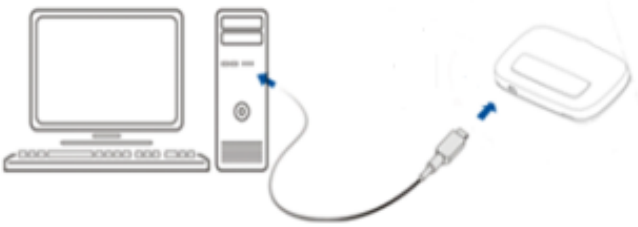
Press the Power button to turn on/off Your device.

Remark:

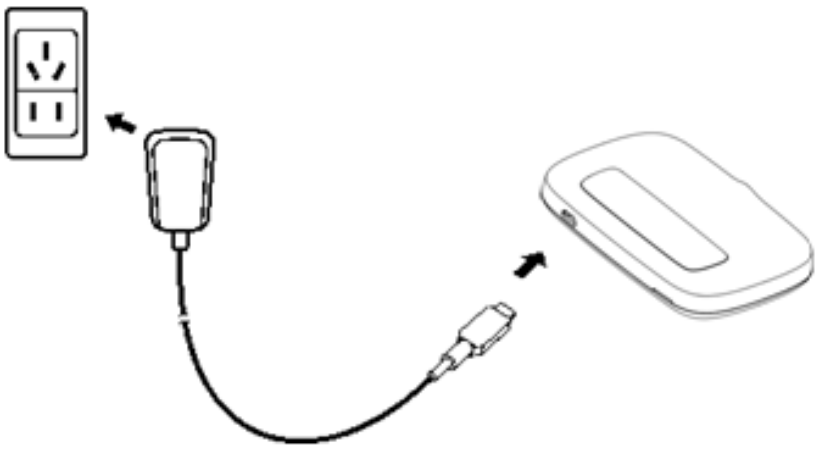
When the LCD display is on, Your device has already been powered on.

2.3 Charging

1. Connect Your device to the computer via USB line directly.



2. Connect the device to AC power socket via charger and USB line.



Note:

The plug of USB line can only be inserted into Your device in particular direction, please do not insert and pull it in an inappropriate way.

Chapter 3 Connect to Your Device

3.1 Via USB

1. Use a USB line to connect Your device to the Client Terminal.

2.Turn on Your device.

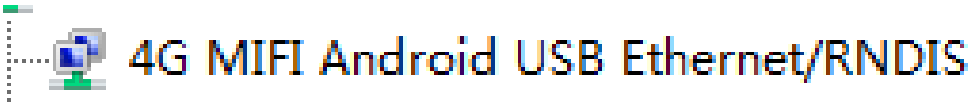
3.Choose an installing language.

4. Complete installation according to system prompts . (Skip this step for drive-free version)

Remark:

1.If the system does not support automatic installation, please run DriverSetup.exe program in My Computer> CD-ROM drive to start software installation.

2.After the software is installed successfully, the device driver will be installed successfully at the same time. Meanwhile in the *Device Manager* shows:



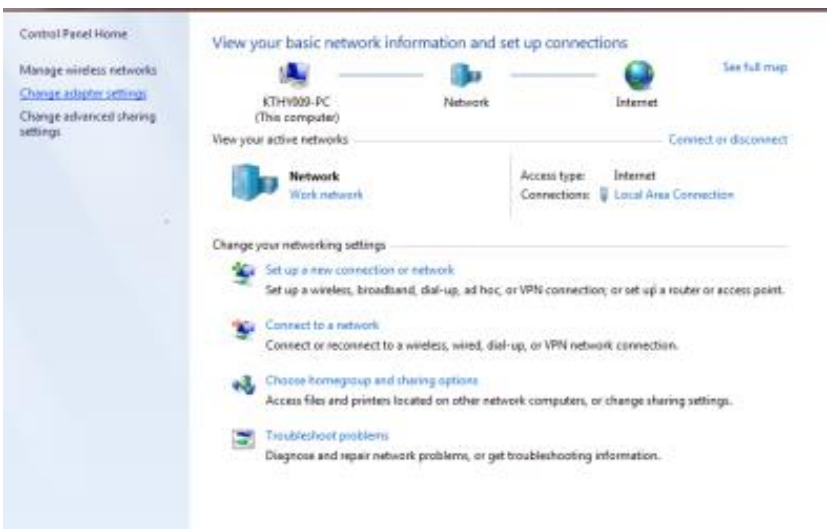
5. After installation, in Start> Program menu will show kfi-driver Client Terminal Program Group, meanwhile there will be a Shortcut icon on the desk (if Create a shortcut is clicked during installation). Later, connection between Client Terminal and the device will be created successfully.

3.2 Via Wi-Fi

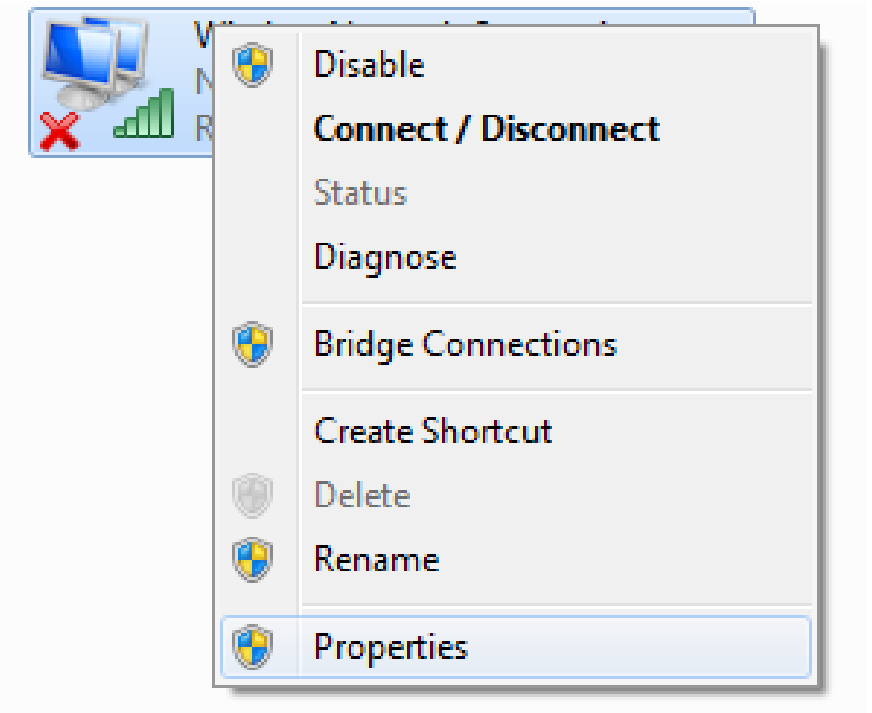
1.Turn on the device, wait for 1~2 minutes till the device initialization is completed.

2. Before connecting via Wi-Fi, please configure the computer. Take Windows 7 as an instance, configure Wi-Fi connection Internet Protocol.

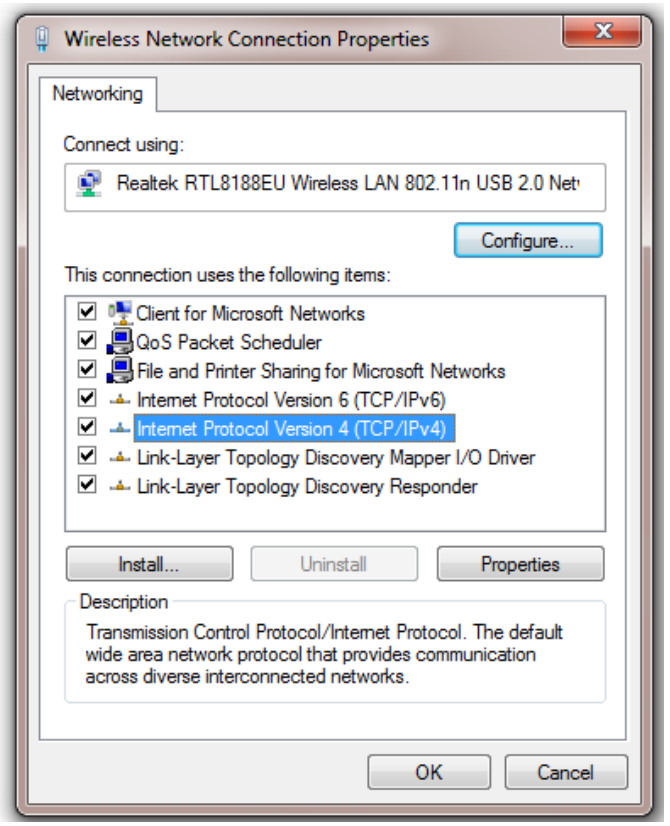
A)Click Start->Control Panel->Network and Internet->Network and Sharing Center, choose Change Adapter Settings.



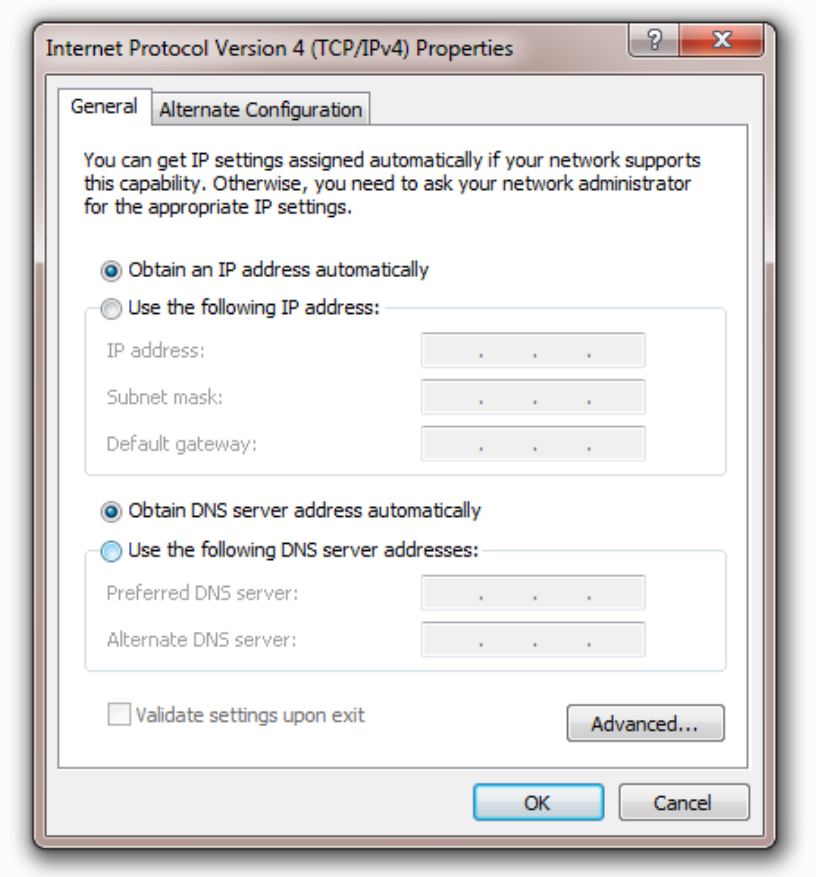
B)Right-click on Local Connection, choose Property.



C)Click Internet Protocol (TCP/IP), choose Property.

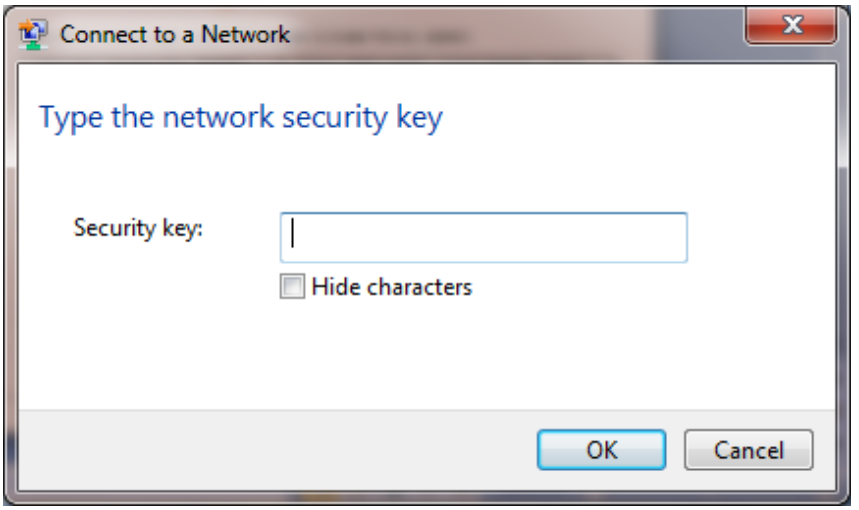


D)Select Obtain an IP Address Automatically and Obtain DNS Server Address Automatically, click Confirm to complete configuration.



3.Select the corresponding SSID of the device, click Connect.

4. Enter the Key and click Connect.

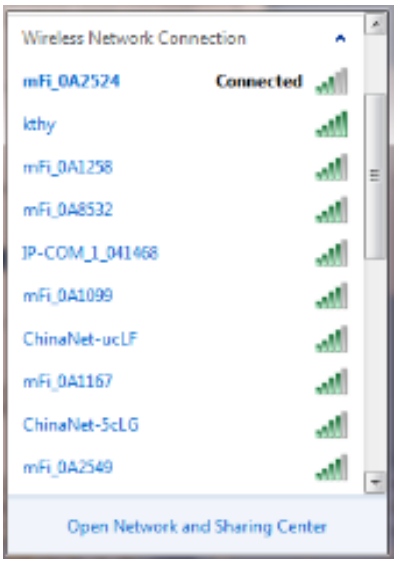


Remark:

In order to prevent the device from being used illegally, there may appear a prompt during installation and demanding the Key. Please refer to the device label to obtain the default SSID and Key info, or double-click WPS function button to

obtain SSID and Key.

5. Later, the Client Terminal will automatically connect to Your device,



3.3 Via WPS Function

If the client supports WPS features,you can refer to Chapter 5 LCD to operate the WPS.

Note:

Regarding the Client Terminal WPS operation process, please refer to the related instructions of client terminal.

1. Built connection between Client Terminal and device.

2.Start the browser, type http://192.168.0.1 or http://kfi.home/ in the address

bar to enter managing page.

Remark:

Advise to use the following browsers: IE (7.0 or higher), Firefox (3.0 or higher), Opera (10.0 or higher), Safari (4.0 or higher) or Chrome (5.0 or higher).

Chapter 4 WebUI Managing Page

4.1 managing page

The Login interface of managing page is shown as follows.

4.2 Information

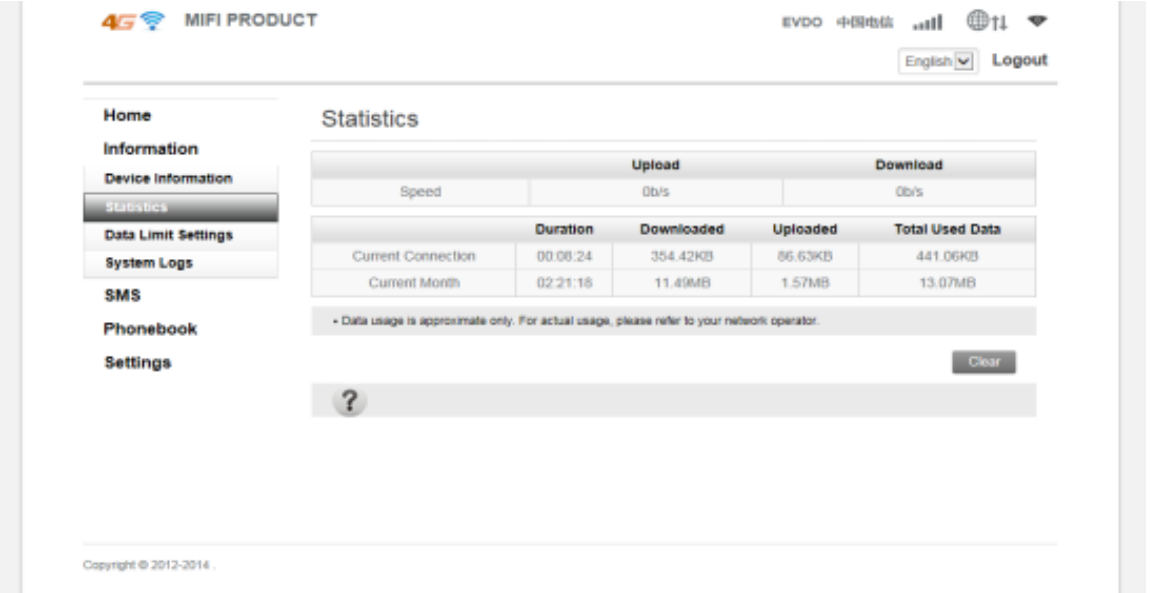
This page includes device information, Statistics, Data Limit Settings and System Logs.

4.2.1 Device Information

SIM Card Number	SIM Card Number provided by network operator.
IMEI	International Mobile Equipment Identification Number.
IMSI	International Mobile SubscriberIdentification Number.
Network Name（SSID）	Click change to enter corresponding page to rename SSID.
Max Access Number	Users number accessd the device，options is 1~10.
Wi-Fi Performance	Set Wi-Fi work range，Click the Change key to enter related setting interface.
LAN Domain	LAN domain which device located.
IP Address	IP address of device.
MAC Address	MAC address of device.
Software Version	Shows the version of current WEB page.
Firmware Version	Shows the current firmware version.
Hardware Version	Shows the current hardware version.

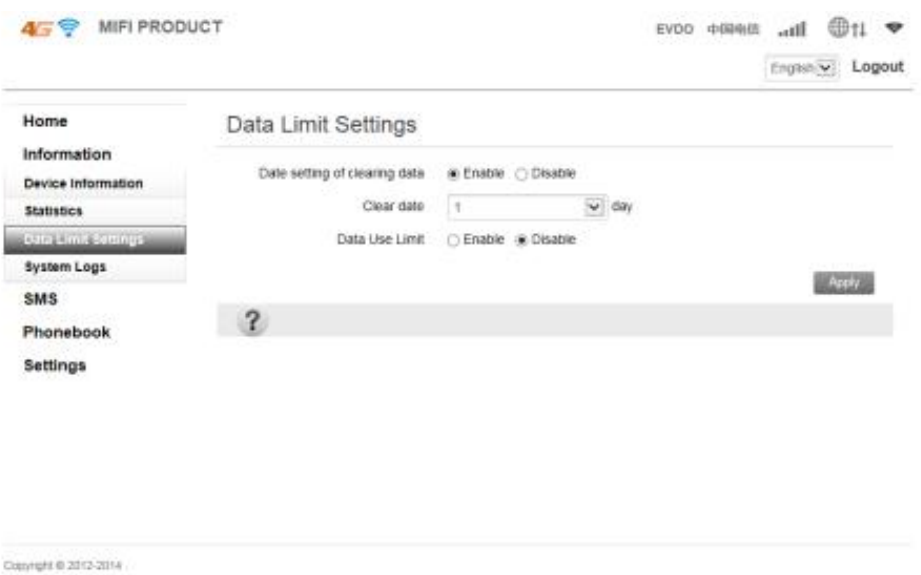
4.2.2 Statistics

The page can display the current upload and download speed in this page, and can also display the data flow used and duration connection time of curent month.



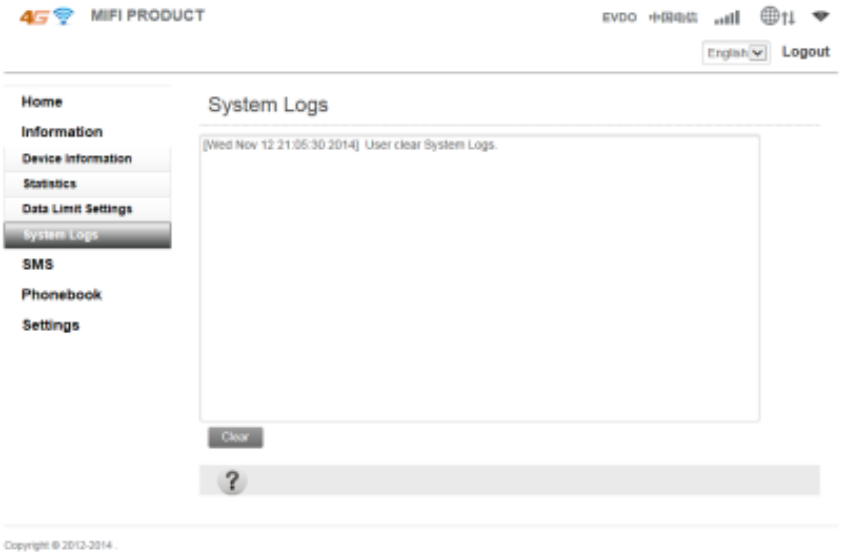
4.2.3 Data Limit Settings

You can set the enable and disable to the flow according to your requirements. When the data flow reached the set limitation, there will appear a reminding popup window.



4.2.4 System Logs

The system log shows operation information of the current device.



4.3 Short Messages

After entering managing page, choose Short Messages to proceed following operation.

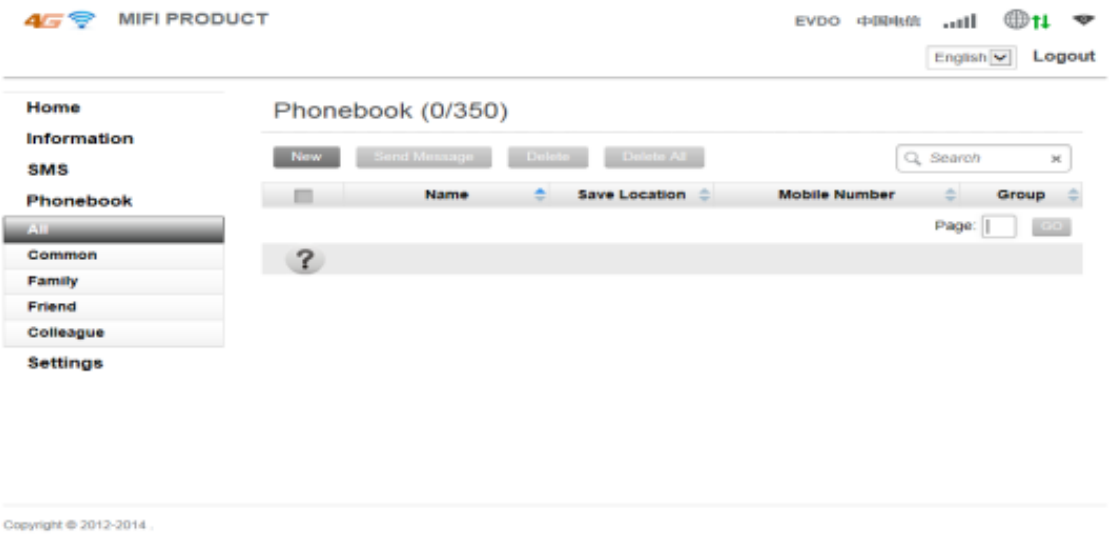
Select *SMS>Device SMS*	You can create, delete, refresh messages on this page.
Select *SMS >SIM SMS*	You can delete messages received on this page.
Select SMS > SMS Setting	You can set Validity and Center Number of messages, and whether set Delivery Report enable.

Remark:

When a new text message is created, the contacts can add up to five.

4.4 Phone Book

After log in managing page, select phone book, You can create, send, delete messages, group and conduct other operations.



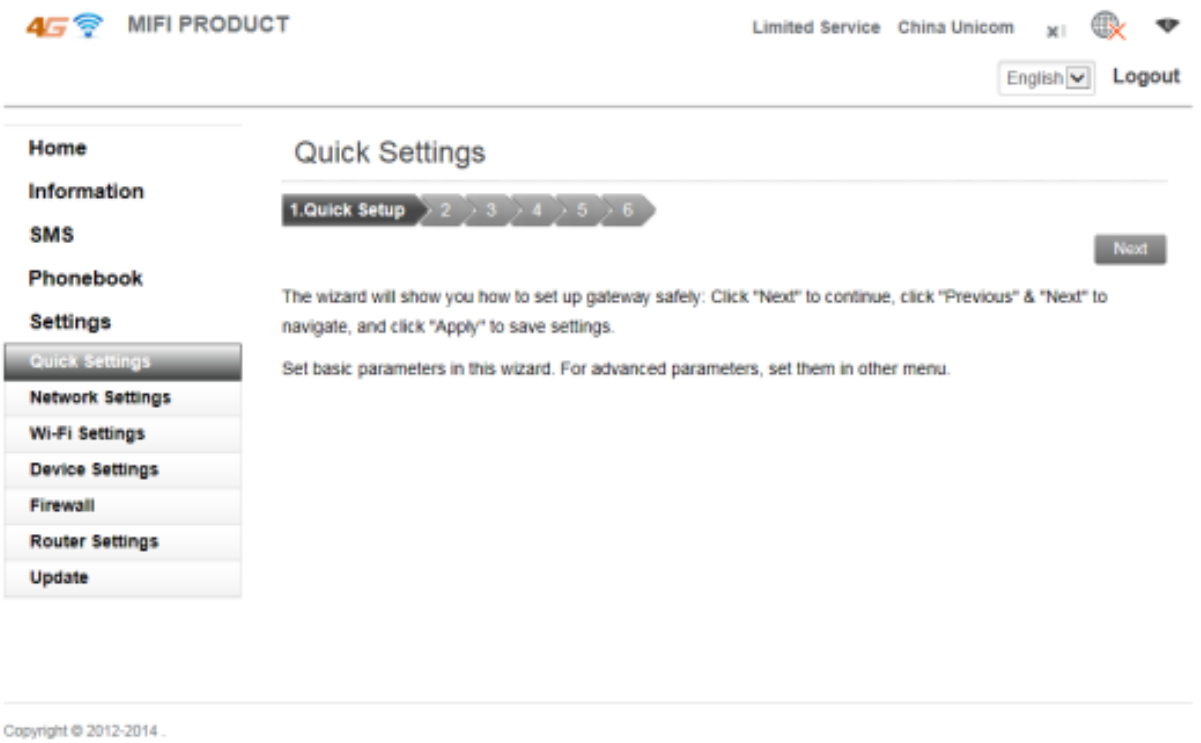
Remark:

Please note the capacity of contacts in the phonebook。

4.5 Settings

4.5.1 Quick Settings

After log in the managing page, select Quick Settings.



Quick Settings will instruct you how to configure Your device in a safe method, please operate according to the page prompts. After correct configuration is completed, You will be enabled to use the internet service.

Remark:

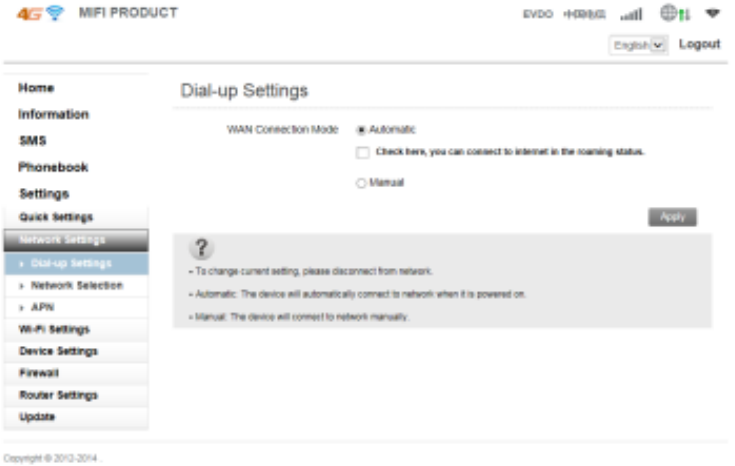
All the parameters may be set by default; in that case, you can use the Internet directly. If you need to change the parameters, please consult your network operator.

4.5.2 Network Settings

In the Network settings page,you can operate dial settings, network settings, APN configuration.

1.Dial settings

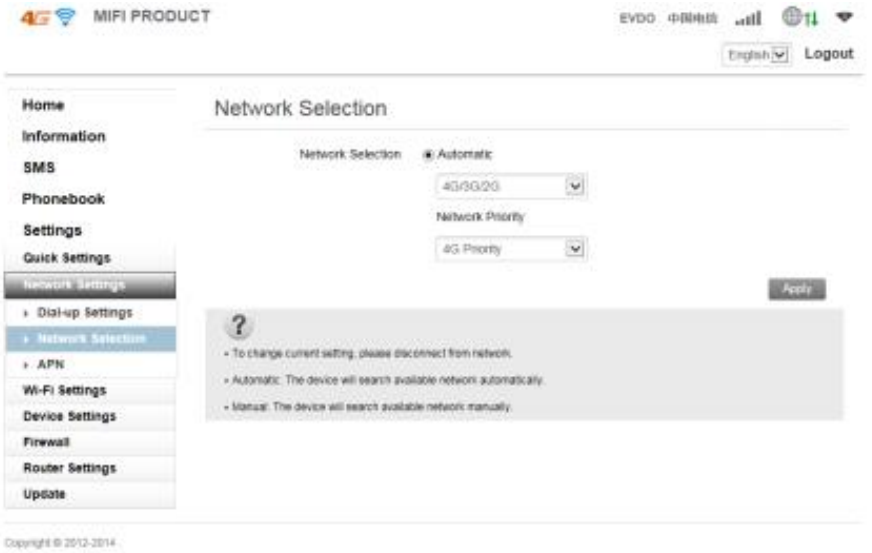
In this page,two wan connection modes are optional:auto and manual.



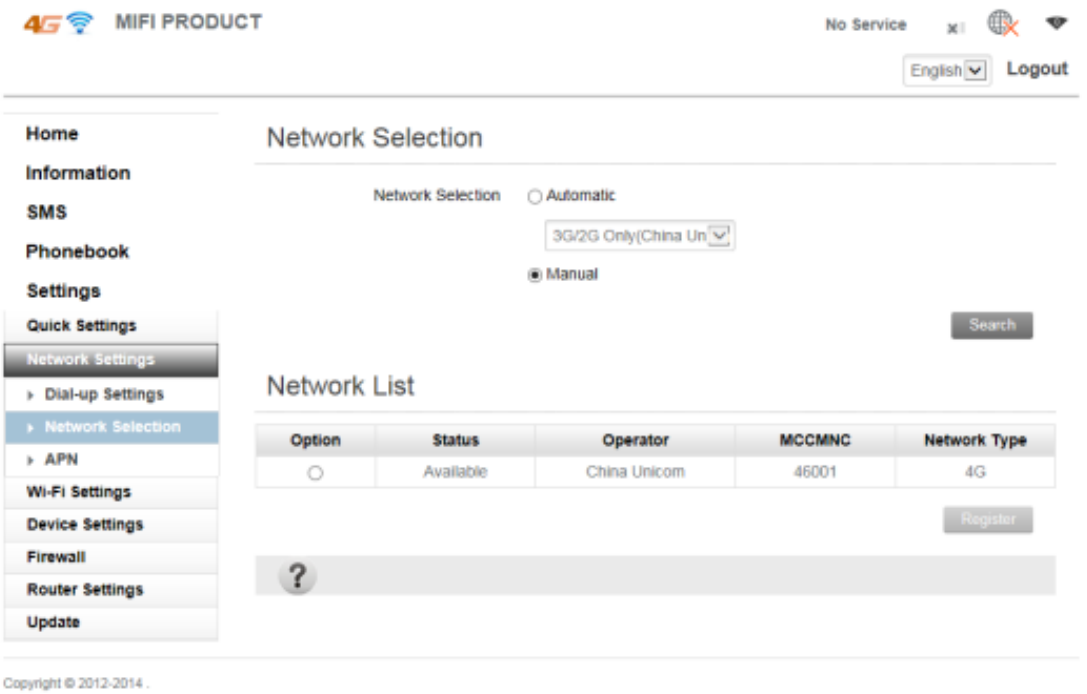
2. Network Selection

Two kinds of Network Selection: auto and manual.

Auto : There are four network selections in this mode,which are 4G/3G/2G、4G/3G、3G/2G、4G etc., user can choose favorable network mode according to specific circumstances of network.



Manual : select manual>search , entering the status of search network. After searching ,there will show a network list that the device can register,as shown in the following:



Select network available> register , After registering , network will be connected automatically again.

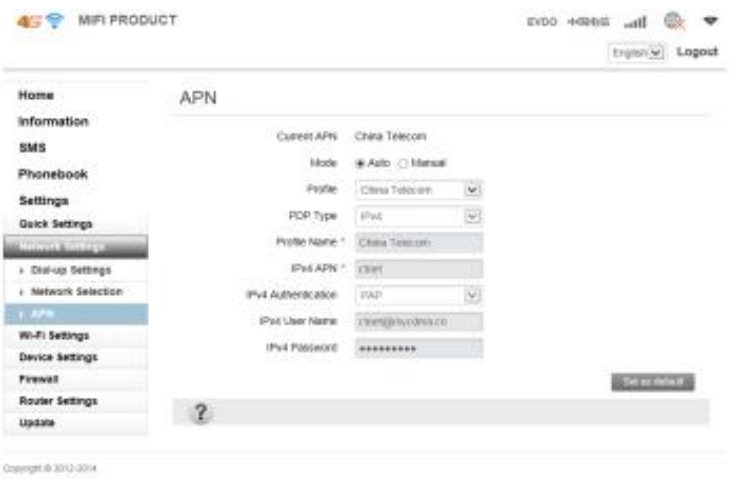
Remark:

When manual is selected,you should disconnect network on the home page or operate according to tips.

3.APN settings

In auto mode,the APN information will be configured automatically on the basis of SIM card inserted.

Generally , APN is configured automatically , if auto configure don't success, select manual please. For detail configuration information, please refer to your network operator.



The following is the way to set APN manually.

1)Disconnect data service manually , select manual> add on the APN page.

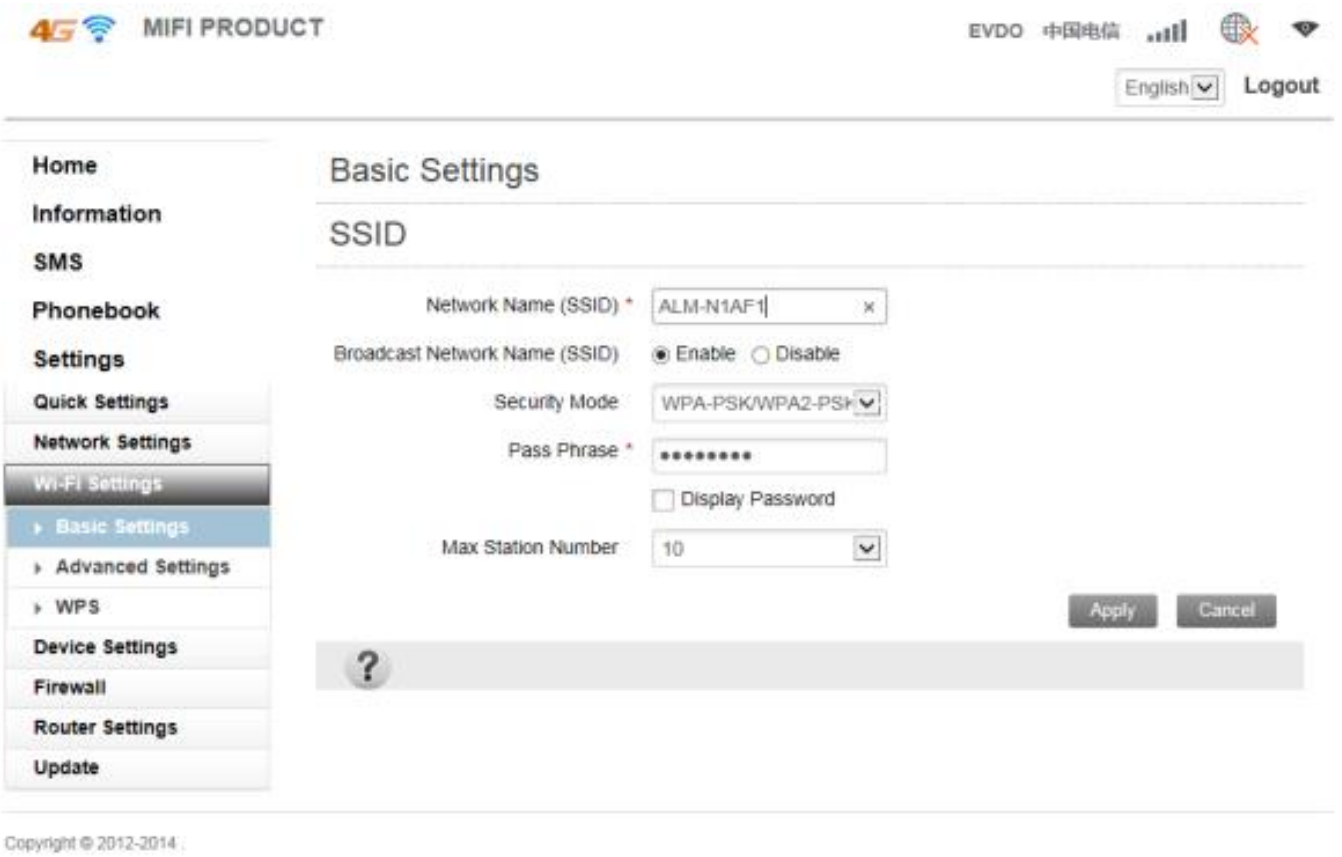
2)Input the profile name and IPV4 APN of APN added manually,then click Apply.

3)Back to APN page>manual ,select profile added ,then click set as default.

4.5.3 WIFI Setting

1. Basic setting

Wi-Fi basic setting includes: network name (SSID), safe mode, pass word selection and setting.

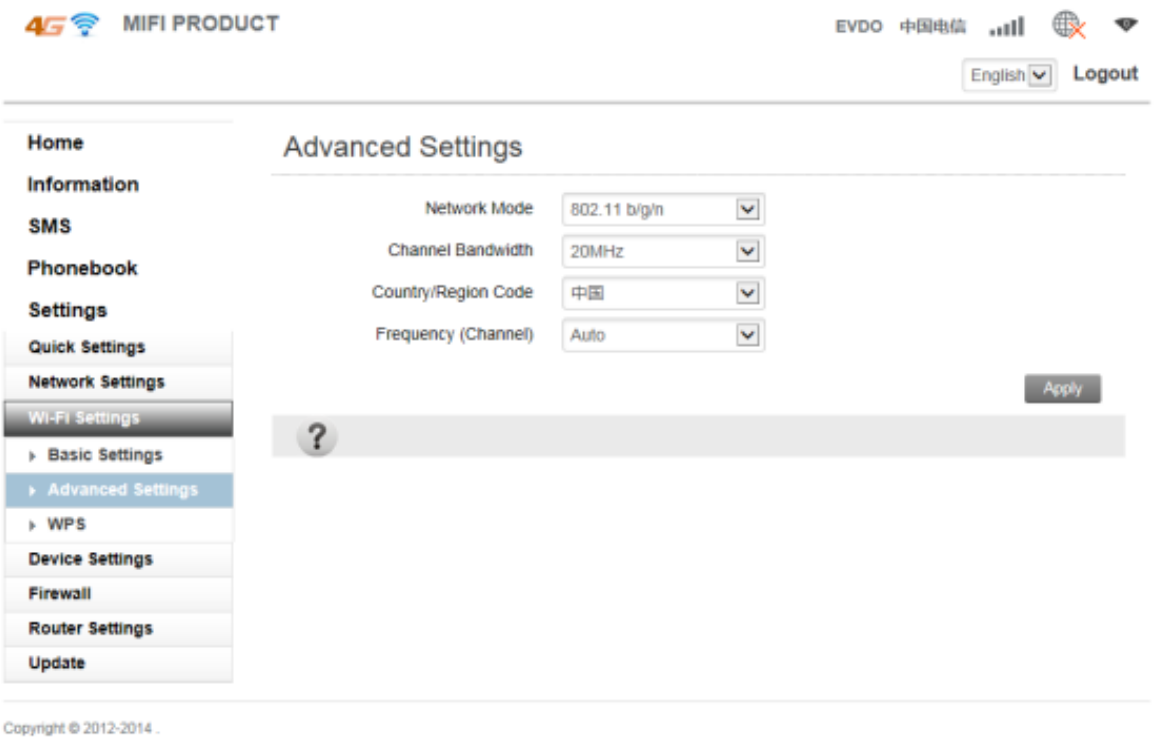


Remark:

For the network safe,please modify password timely.

2.Advance Setting

Including network mode、Channel Bandwidth、Country/Region Code、Frequency (Channel).

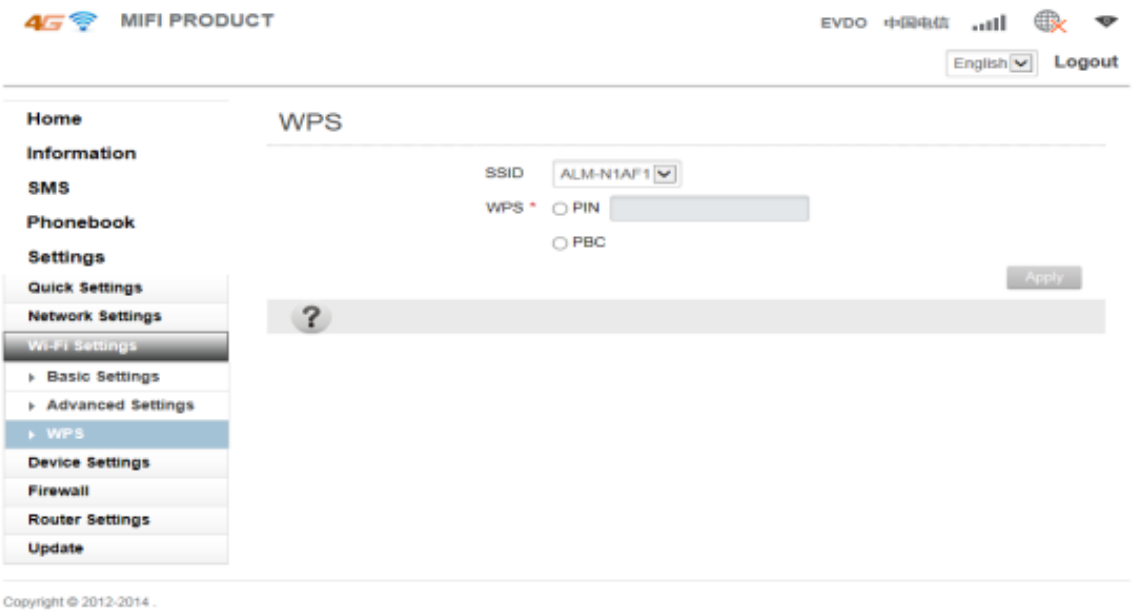


3.WPS Settings

You can enable Wi-Fi Protected Setup(WPS) by PIN(PIN code) or PBC(push-button) mode on this page.

PIN: Enter PIN that is generated by wireless access client.

PBC: Select PBC or press PBC button on the device.

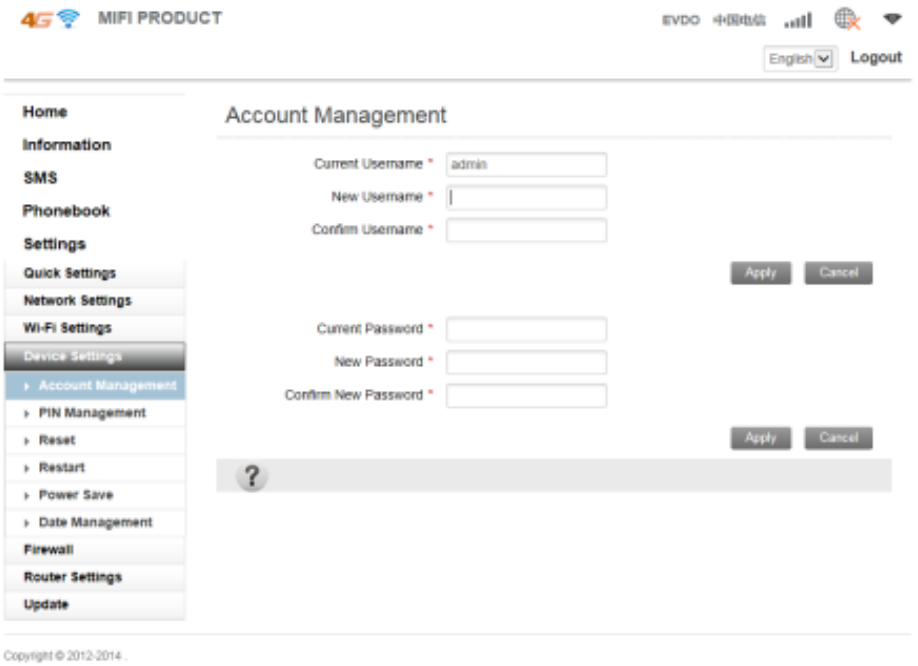


4.5.4 Device settings

Device settings includes Account Management,PIN Management,Reset Factory Settings,Restart,Power save,Date Management.

1. Account Management

Account management is used to set WenUI login username and password for administrator , both of the initial value are admin.

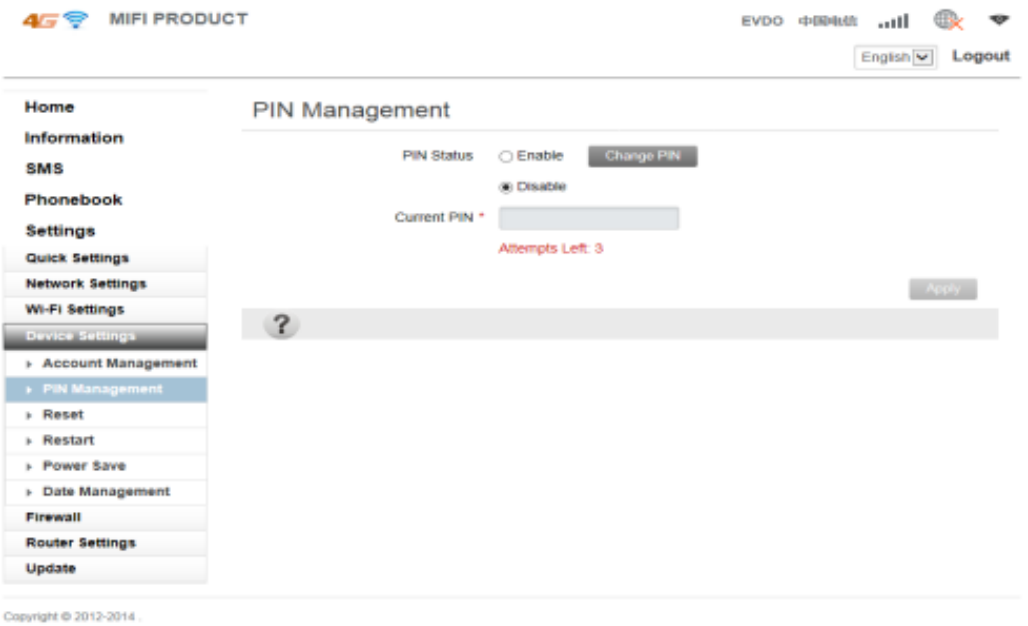


Remark:

For protecting network , please modify login username and password of WebUI.

2. PIN Management

Select settings>device settings > pin management to modify pin status.



When pin validate service is enabled,it is necessary to input pin code while entering login page first time.

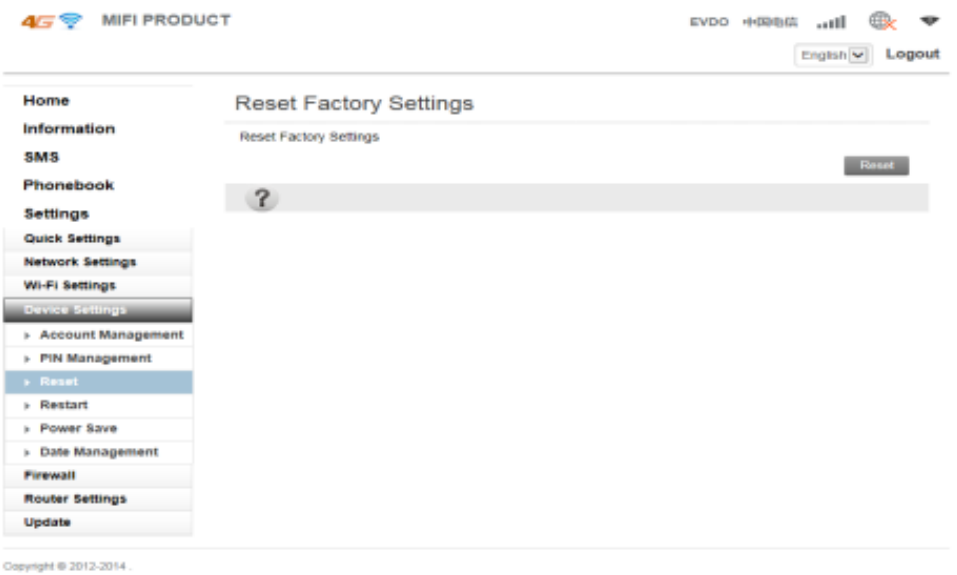
Note:

SIM card will be locked if you input pin code three times incorrectly. For this case, please refer to your network operator.

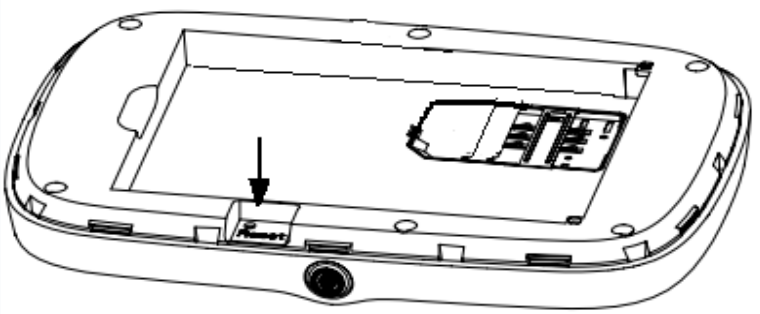
3.Reset to Factory Default

There are two ways to reset to factory default:

a). In software,select settings>device settings>reset.



b). In hardware,press the position shown by the arrow for 3 seconds to restore to factory default.

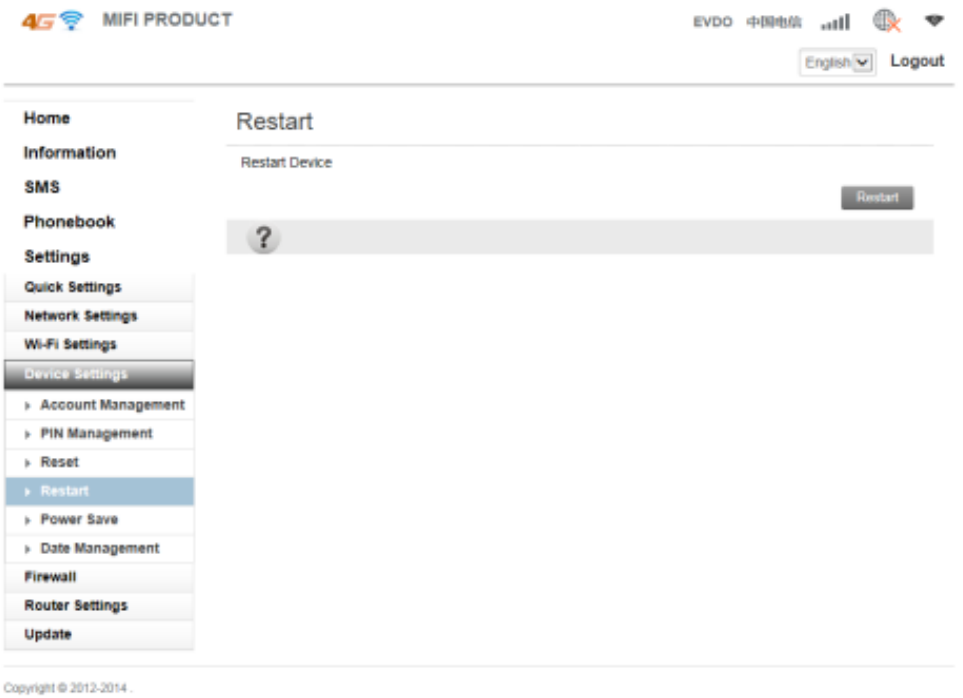


Remark :

If forget the WebUI login password,you can reset factory default by the hardware way , and login WebUI according to initial username and password.

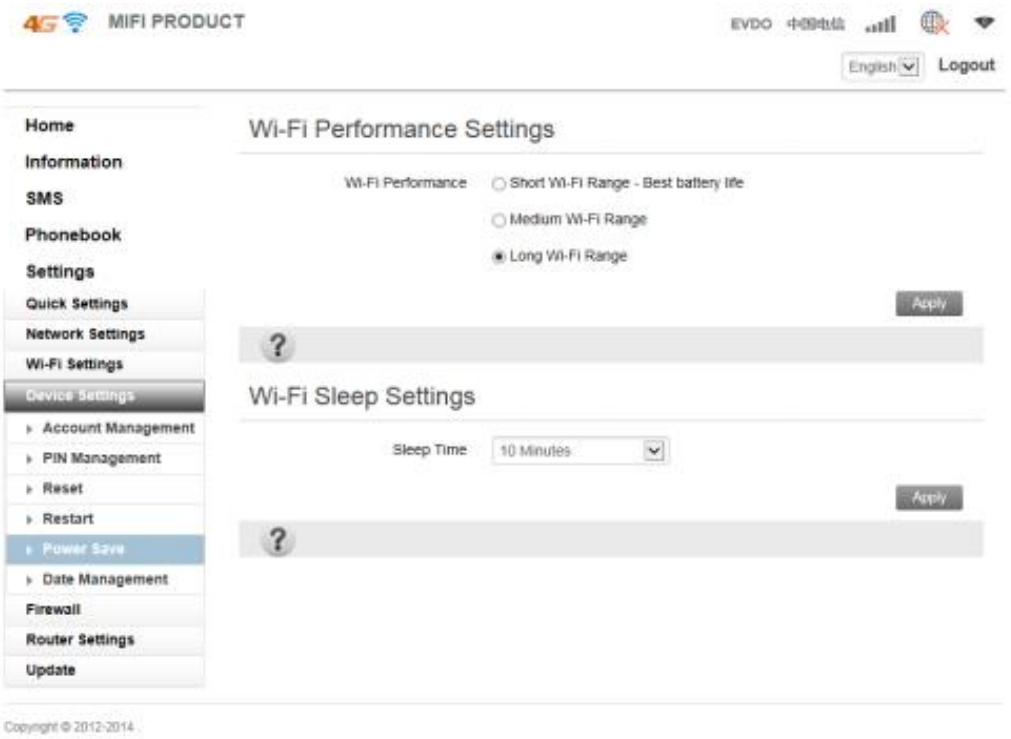
4.Restart

In restart page, you can click on the restart button to restart the device.



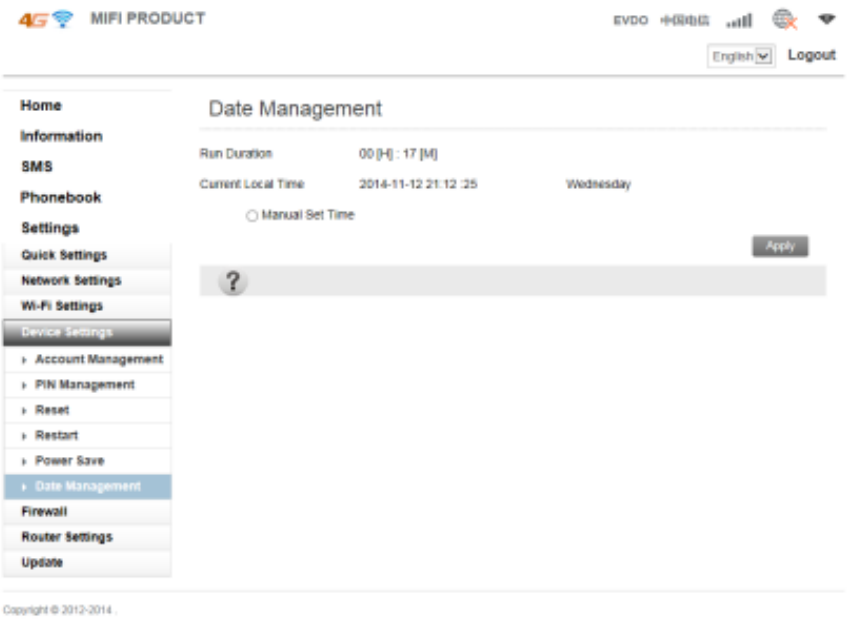
5. Power save

Because Wi-Fi coverage directly affect the device power consumption, please select the appropriate Wi-Fi performance settings and the sleep time。



6.Date Management.

Run Duration	Shows the time device is turned on.
Current Local Time	Shows the current time of device.
Manual Set Time	Set the local time manually, take effect after application.

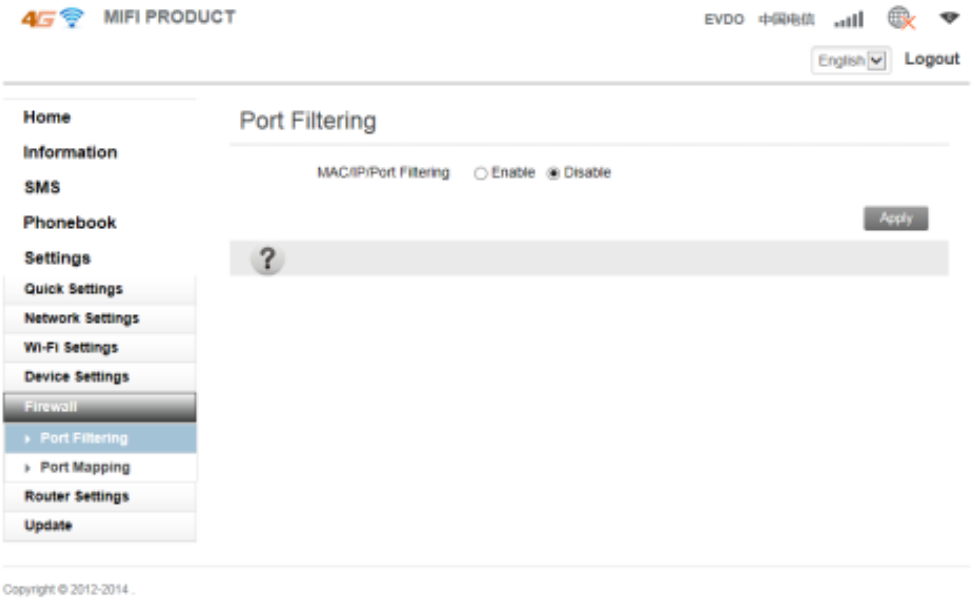


4.5.5 Firewall

You can set firewall policies to protect your network from viruses, worms and malicious activities on the Internet, to make the device running on a secure network.

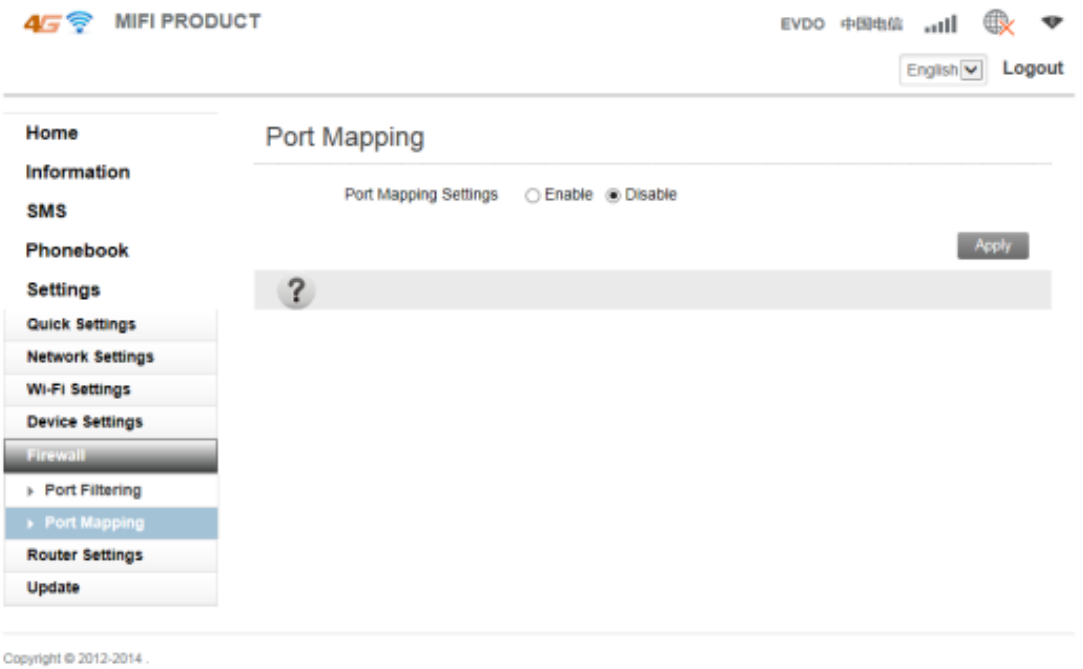
1. Port Filtering

when port filtering is enabled, you can set MAC/IP/Port Filtering by yourself, default setting is disabled.



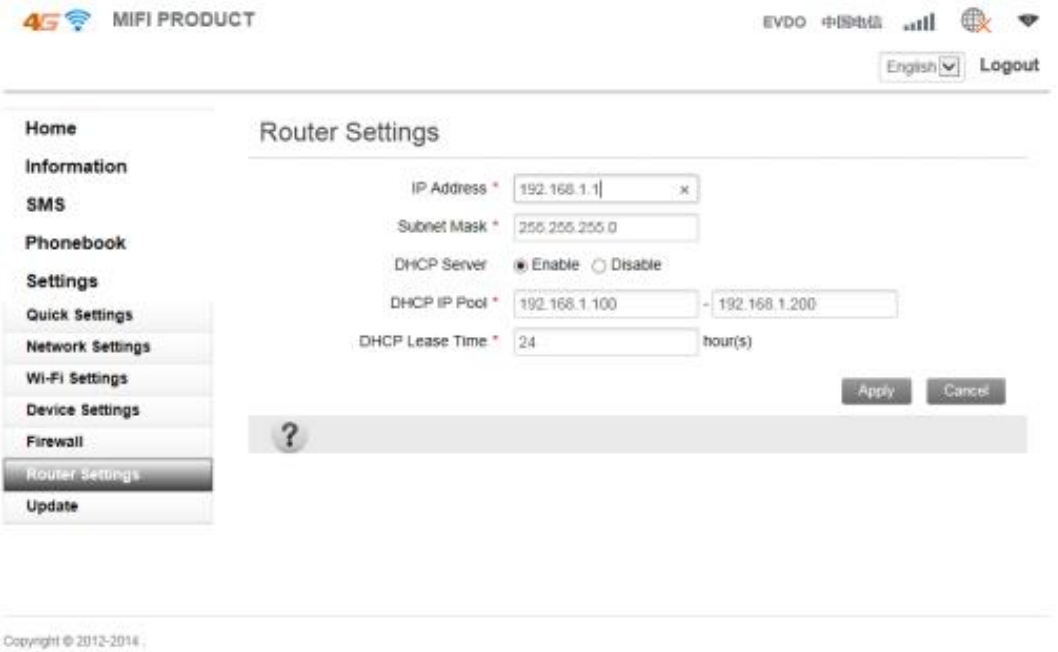
2. Port Mapping

Configure a Port Mapping to enable external computers to access WWW, FTP or other services provided by LAN.



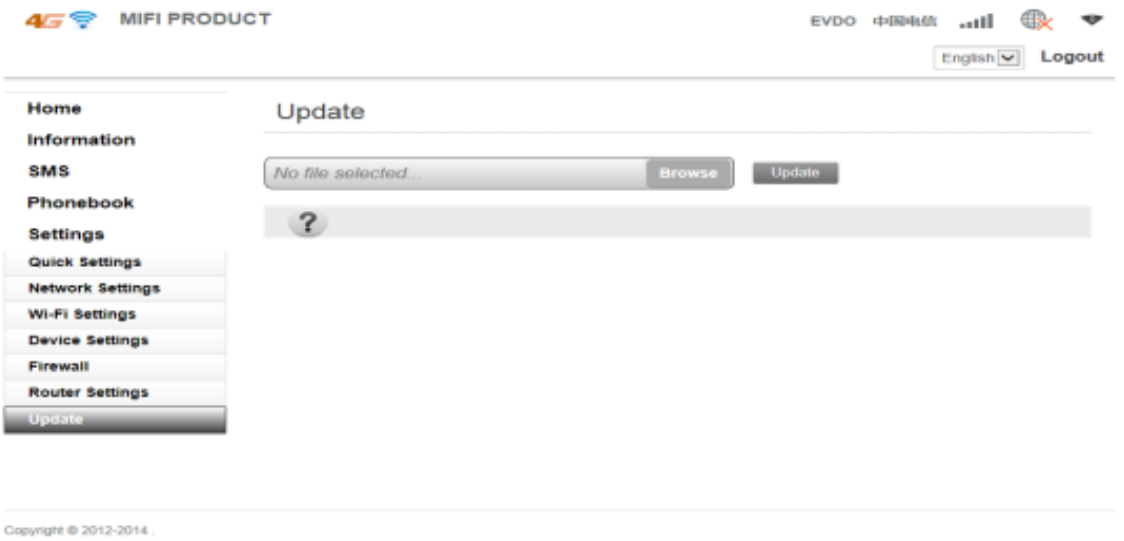
4.5.6 Router Settings

You can set IP address, subnet mask , DHCP in this page.



4.5.7 Update

Please download the latest installation package corresponding to device models on the website. Click Browse, select the upgrade program you have downloaded at local client, click on the upgrade, the system will automatically upgrade the device to optimize the use of the product.



Chapter 5 LCD display

LCD has main screen and five sub screen , on the power on status,you can double click power key quickly to switch each screen.

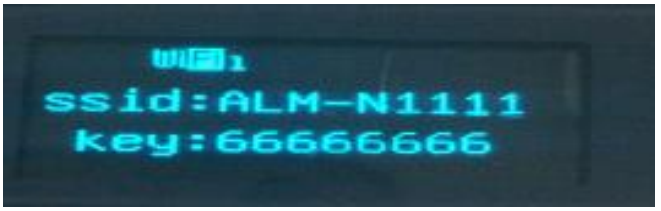
5.1 1th main screen

Display four status icon and network operator.

Signal strength	Using signal bar to display signal strength.
Network mode	LTE 4G EVDO 3G CDMA1× 1×
WiFi	Using wifi icon to express whether wifi is enabled or not.
Battery capacity	Using battery icon to express current battery capacity.
Main body	Display the name of current network operator.

5.2 2nd WiFi

After entering this screen,it will diaplay SSID、KEY and the numbers of WiFi accessed.



Remark:

While ssid and key is modified, lcd will update both of them synchronously.

5.3 3rd Data flow and Battery volume

After entering this screen,it will diaplay the cumulative use of data flow and battery volume.

note:

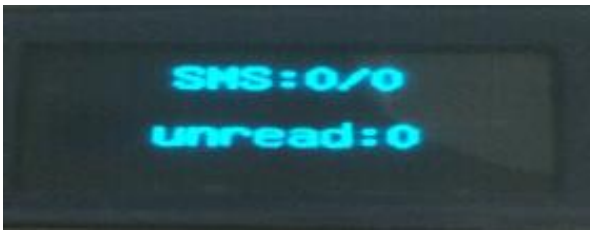
Date setting of clearing data is enabled in default. System will clear data flow of last month to zero automatically at t 1th day of every month ,and start to count current data flow again.

5.4 4th SMS

This screen display sms information.

SMS:0/0 : current sms numbers /sms capacity

Unread: sms unreaded

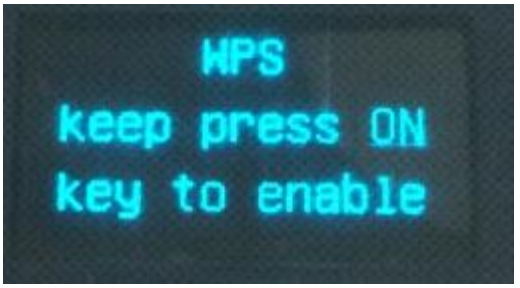


Remark:

LCD only display current sms numbers、sms capacity and sms unreaded , the content of sms received can only read on the WebUI.

5.5 5th WPS

In this screen, you can long press power key can make LCD flicker and open wps .



Remark:

In this screen, long press power key can not let device power off,but to light the LED green and open wps .

5.6 6th Reset Factory Settings

After entering this screen, you can long press power key to reset all settings to defaults.

Chapter 6 Safety Instruction

Personal Use

● Using this device and other RF equipment may cause interference to some equipment that has a bad performance for shielding, such as some electronic system in motor vehicle. When necessary, please consult the device manufacturer before using this device.

● When use this device near some medical device such as audiphones, cochlear implants and pacemaker, please keep at least 20 cm distance between this device and the medical devices; when necessary please power off this device. In You have other questions, please consult manufacturing factories of the medical device before using.

● When use in oil warehouse, chemical plant and other explosive production process, in hospital and other places that have special requirements, please pay attention to the using restriction to this device. If required, please do not use this device.

● Please place this device beyond children' reach, so that children will not treat it as a toy, and prevent personal injury.

● Please power off this device before plane taking off. In order to prevent interference to the plane communication system, during flight, it is forbidden to use this device. Using this device before plane taking off shall follow the safety regulation and get permission from the crew.

● When this device is working, please do not touch the built-in antenna area of the device, otherwise device performance will be affected.

Your Device

Please use accessories only from the original factory or approved factories. Using any unauthorized accessories will affect the performance of this device, and will be against product warranty terms and related national regulations about communication terminal products.

● Avoid to use this device near metal structure or devices that emit electromagnetic waves, otherwise it will affect signal acceptance.

● This device does not have waterproof performance, please keep it dry and store it in dry and cool environment.

● Please do not use this device after the temperature is rapidly changing. In that case, there may be condensation in or outside the device. Please wait for some time till the condensation disappears then use the device.

● Please take and place the device with caution. Do not drop, bend or crash the device, otherwise may cause irreparable damages to the device.

- Non-professional are forbidden to disassemble the device. If You need to repair it, please go to designated repair place for maintenance. Only qualified maintaining personnel can repair this device.
- The suggested using environment is 0℃～35℃, moisture is 5%～95%.
- Please do not short-circuit the battery to prevent battery damages, generation of heat and fire.
- It is forbidden to place the battery under high temperature environment or drop it in fire to prevent explosion.
- Please do not try to disassemble the battery.
- If the battery will not be used for some time, please discharge it and store it in a dry and cool place without light.
- When the battery and charger have been damaged or have been aging obviously, please stop using them.
- Please send back the aged battery to the supplier or place it in designated collection points, and do not drop it in household wastes.

Warning:

If the battery is broke and damaged, please do not touch the substances inside, if these substances contaminate skins, please flush with large amount of water, and seek medical help if necessary.

Chapter 7 Q&A

Q: ALM-N245 can be connected to wireless network, but has no data connection service, how to deal with it?

A: Please check the device APN setting first. Procedures are as follows:

Log in device WebUI page---->Click Setting---->Click Network Setting---->Click APN---->Check or set APN

APN setting is divided into manual and automatic methods. If in automatic setting and no network connection, please consult Your network operator to obtain the correct APN parameters, and select manual setting to add the correct APN.

Q: What is this icon for in website?

A: This icon is for showing related settings of each web pages.

FCC Compliance

This device complies with part 15 of the FCC Rules. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

Operation is subject to the condition that this device does not cause harmful interference.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user’ s authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/ TV technician for help.

Health and safety information

Radio Frequency (RF) Energy

This model LTE Mobile hotspot meets the government' s requirements for exposure to radio waves.

This LTE Mobile hotspot is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government:

The exposure standard for wireless LTE Mobile hotspot employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by

the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the LTE Mobile hotspot transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the LTE Mobile hotspot while operating can be well below the maximum value. This is because the LTE Mobile hotspot is designed to operate at multiple power levels so as to use only the poser required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest SAR value for the model LTE Mobile hotspot as reported to the FCC when worn on the body, as described in this user guide, is 1.28 W/kg (Body-worn measurements differ among LTE Mobile hotspot models, depending upon available enhancements and FCC requirements).

While there may be differences between the SAR levels of various LTE Mobile hotspots and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model LTE Mobile hotspot with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model LTE Mobile hotspot is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on

FCC ID: XYOALM-N245

For body worn operation, this LTE Mobile hotspot has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and the positions the handset a minimum of 10 mm from the body. Use of other enhancements may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the LTE Mobile hotspot at the ear, position the handset a minimum of 10 mm from your body when the LTE

Mobile hotspot is switched on.