



File Name:	User Manaul	Version	1.0
Project:	MC118 4G Wireless Router	Update Date:	2018-9-6
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# MC118 4G WIRELESS ROUTER

## User Manual

Document Status <input checked="" type="checkbox"/> Draft <input type="checkbox"/> Official Release <input type="checkbox"/> Under revision	Current Ver.	V1.0
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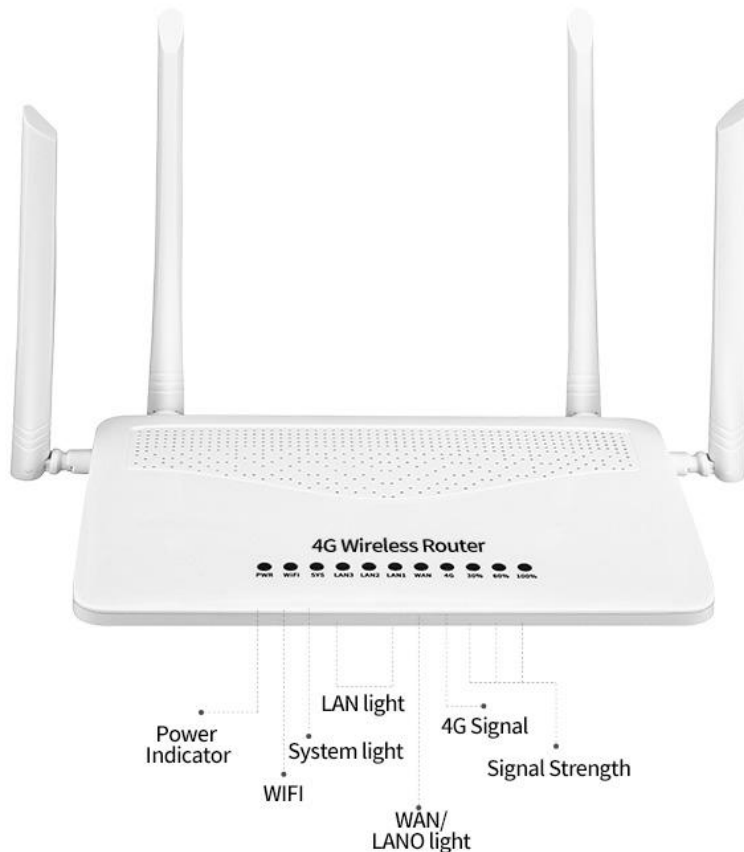
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Thank you for choosing our products. Please read this manual carefully before using this product.

Follow the steps to use this product. Please keep it in a safe place after reading for future reference.

## 1. Indicator Description



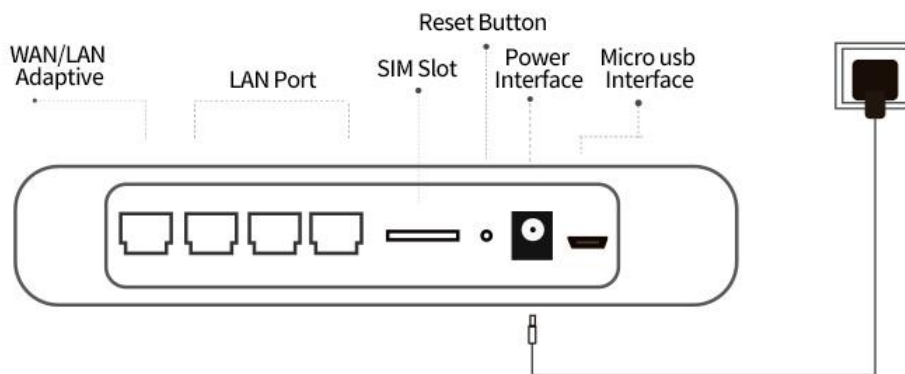
Name	Status	Description
PWR	Constantly bright	Normal power
WIFI	Constantly bright	Always on after power-on, indicating that the wireless is normal
	Fast flashing	Flashing after power-on, indicating that data is being transmitted
	Extinguished	Off after power-on, indicating that the wireless function is turned off or malfunctions.
System light(SYS)	Constantly bright	Lights up after power-on, indicating that the power supply is normal.
	Slow flashing	About 10 seconds after power-on, from constant light to slow

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		flash, indicating that the system is operating normally.
WAN light	Jump flashing	RJ45 port is connected
	Extinguished	RJ45 port is not connected
LAN1-LAN3 light	Fast flashing	RJ45 port is connected
	Extinguished	RJ45 port is not connected
3G/4G Indicator light	Constantly bright	connection succeeded
	Slow flashing	connecting
	Extinguished	no connection
30%-60%-100 %	Constantly bright	Corresponding range signal value in wireless router mode

## 2. Interface Description

The images in this article are for reference only.



1) RJ45 interface: WAN/LAN0

Description: LAN0 port can be used as a WAN port in standard routing mode.

2) RJ45Interface: LAN1

3) RJ45 interface: LAN2

4) RJ45 interface: LAN3

5) SIM card slot: pop-up card slot, support standard SIM card

6) RESET button: Press this button for 5 seconds in the power-on state, the SYS light will flash quickly, then restart, and the reset is successful.

7) DC interface: DC5V~12V wide voltage

Description: DC interface adopts 2.1mm standard round head power interface, DC5V~12V wide voltage design, inside and outside negative, maximum power supply must not exceed 15W

8) Micro USB port: Power supply interface DC5V~12V, the maximum power supply must not exceed 15W

9) 2 3G/4G full-range antennas

10) 2 2.4G WIFI booster antennas

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### 3. Card and Connection Method

This industrial-grade router defaults to the network self-test (the default setting dials 3-5 times and about 10 seconds). The device automatically detects the network dialing after booting. If the network is not recognized, it will restart automatically. Therefore, the common installation steps for the first-time installation are as follows:

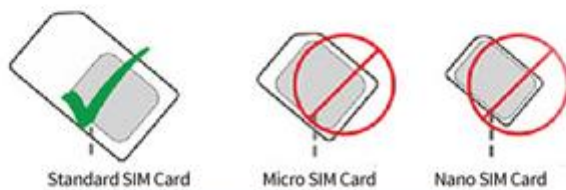
1. Insert the SIM card. This is the standard SIM card pop-up card slot. Note the placement position of the card slot. The metal chip is facing downwards.
2. Connect the power supply is generally to first light up the PWR light and then the WIFI light and the corresponding signal value light 4G3G signal light flashing, 4G3G signal light is always on SYS light slow flashing, indicating that the network has been successfully connected, users can connect through WIFI or RJ45 port Using the network.

#### Card And Connection Method

##### 1 Card SIM Card



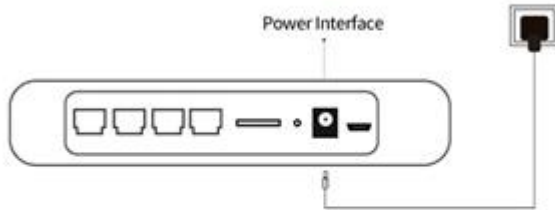
Insert The SIM Card In This Direction With The Metal Contacts Facing Down As Shown



✓ Tips: Please Insert A Standard Size (15X25mm) SIM Card

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## 2 Connect The Power Adapter. Power On The Router To Start Running.



**Reset Button:** Use The Ejector Pin To Press And Hold The Button For 5 Seconds To Release The Trigger To Restore The Factory Settings.

**SIM Card Slot:** Check The Flow Card / Network Card / let The Router Use The Network Of The Card

**LAN Port:** Connected To The Computer Through The Network

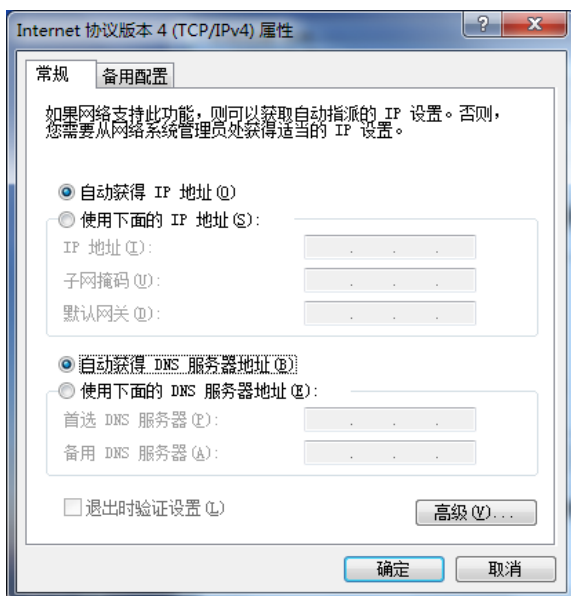
**WAN Port:** Connect To The External Network

## 4. Connecting Device

You can connect to the router in the following ways.

### 4.1 Wired connection Set the IP address of the computer

Before accessing the web settings page, it is recommended that you set your computer to "automatically obtain an IP address" and "automatically obtain a DNS server address", and the router automatically assigns an IP address. If you need to assign a static IP address to your computer, you need to set the IP address of the computer to the same subnet as the LAN port IP address of the router (the default IP address of the LAN port of the router is 192.168.10.1 and the subnet mask is 255.255). .255.0)。





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## 4.2 Connected via WIFI

Detect wireless router wireless network

Default WIFI name (SSID): 4G-CPE-XXXX (4 digits after the MAC address)

Default WIFI password (Key): 12345678

Then click the 'Connect' button to enter the password. Establish a connection network. See the device nameplate for details.

## 5. Common settings

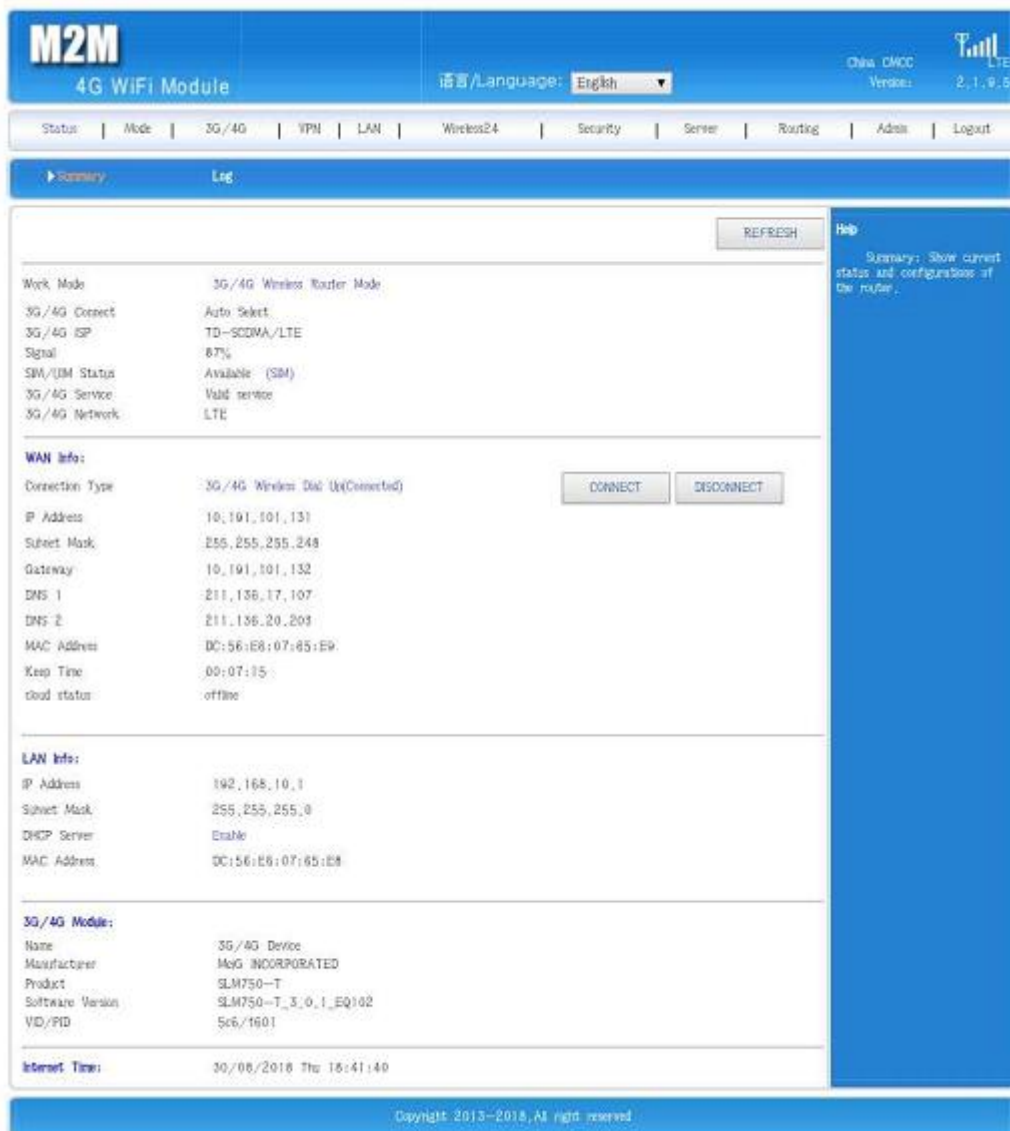
### 5.1 Set WIFI network name, password, hidden WIFI

Use the mobile phone to connect to the default WIFI signal transmitted by this router. See the device label for details.

Use the mobile browser to open the link or manually enter 192.168.10.1 in the web browser's web address bar to enter the management WEB background interactive interface.

Log in to the background login interface. Enter the default account admin password admin to enter the router management interface.

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**M2M 4G WiFi Module** 语言/Language: English China CMCC Version: 2.1.0.5

Status | Mode | 3G/4G | VPN | LAN | Wireless24 | Security | Server | Routing | Admin | Logout

Summary Log

REFRESH

**Work Mode**

Work Mode	3G/4G Wireless Router Mode
3G/4G Connect	Auto Select
3G/4G ISP	TD-SCDMA/LTE
Signal	87%
SIM/UM Status	Available (SIM)
3G/4G Service	Valid service
3G/4G Network	LTE

**WAN info:**

Connection Type	3G/4G Wireless Dial Up(Connected)	CONNECT	DISCONNECT
IP Address	10.191.101.131		
Subnet Mask	255.255.255.248		
Gateway	10.191.101.132		
DNS 1	211.136.17.107		
DNS 2	211.136.20.209		
MAC Address	DC:56:E8:07:65:E9		
Keep Time	00:07:15		
Cloud status	offline		

**LAN info:**

IP Address	192.168.10.1
Subnet Mask	255.255.255.0
DHCP Server	Enable
MAC Address	DC:56:E8:07:65:E8

**3G/4G Module:**

Name	3G/4G Device
Manufacturer	M2M INCORPORATED
Product	SLM750-T
Software Version	SLM750-T_3.0.1_EQ002
VD/PID	5c6/1601

**Internet Time:** 30/08/2018 Thu 16:41:40

Help: Summary: Show current status and configurations of the router.

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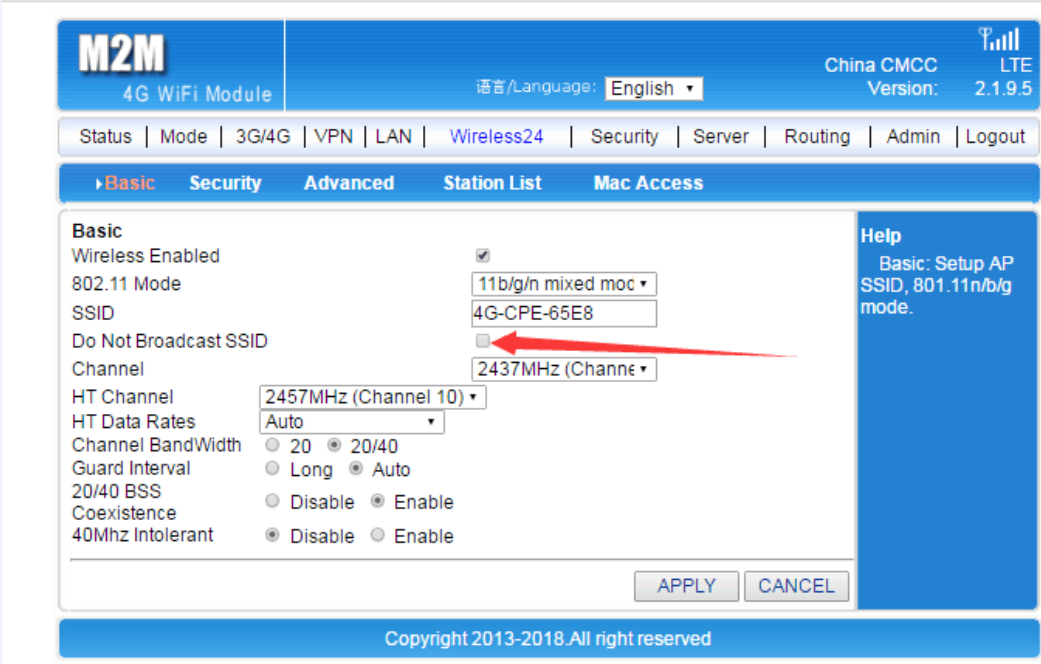
Tips: You can also use the computer to set it up.

- ① Set the computer IP to get it automatically.
- ② Connect the router LAN hole with a computer cable.
- ③ Enter the 192.168.10.1 in the web address of the computer browser to open the web interface management interface of the router. Enter the default account and password admin to set it. . If you are not familiar with the computer, it is recommended to use the phone to set up the router. .

In the router management background interface, click the navigation bar "2.4G Wireless" - "Wireless Settings", enter the name you want to set in the "Wireless SSID" input box, click the "OK" button to confirm the settings, you can set the name.



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**M2M** 4G WiFi Module

语言/Language: English

China CMCC Version: 2.1.9.5

Status | Mode | 3G/4G | VPN | LAN | **Wireless24** | Security | Server | Routing | Admin | Logout

Basic Security Advanced Station List Mac Access

**Basic**

Wireless Enabled

802.11 Mode 11b/g/n mixed mod

SSID 4G-CPE-65E8

Do Not Broadcast SSID  *(Red arrow points here)*

Channel 2437MHz (Channel 10)

HT Channel 2457MHz (Channel 10)

HT Data Rates Auto

Channel BandWidth  20  20/40

Guard Interval  Long  Auto

20/40 BSS  Disable  Enable

Coexistence  Disable  Enable

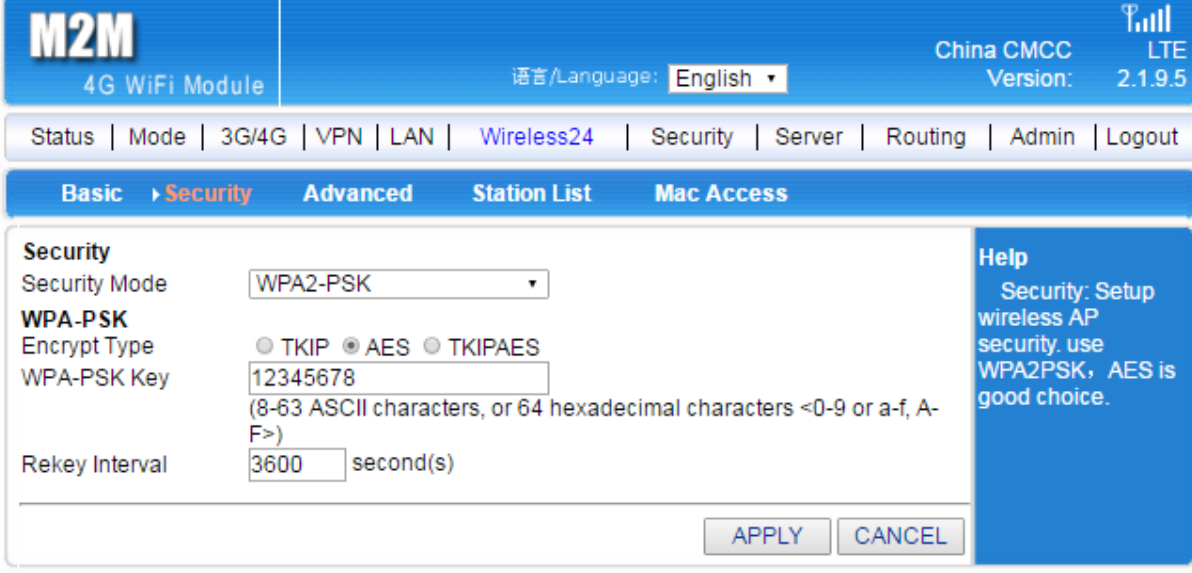
40Mhz Intolerant  Disable  Enable

APPLY CANCEL

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**Help**  
Basic: Setup AP SSID, 801.11n/b/g mode.

In "2.4G Wireless" - "Wireless Security" enter the password you want to set in the "WPA-PSK Key" input box and click the "OK" button to confirm the setting. You can set a password.



**M2M** 4G WiFi Module

语言/Language: English

China CMCC Version: 2.1.9.5

Status | Mode | 3G/4G | VPN | LAN | **Wireless24** | Security | Server | Routing | Admin | Logout

Basic **Security** Advanced Station List Mac Access

**Security**

Security Mode WPA2-PSK

**WPA-PSK**

Encrypt Type  TKIP  AES  TKIPAES

WPA-PSK Key 12345678  
(8-63 ASCII characters, or 64 hexadecimal characters <0-9 or a-f, A-F>)

Rekey Interval 3600 second(s)

APPLY CANCEL

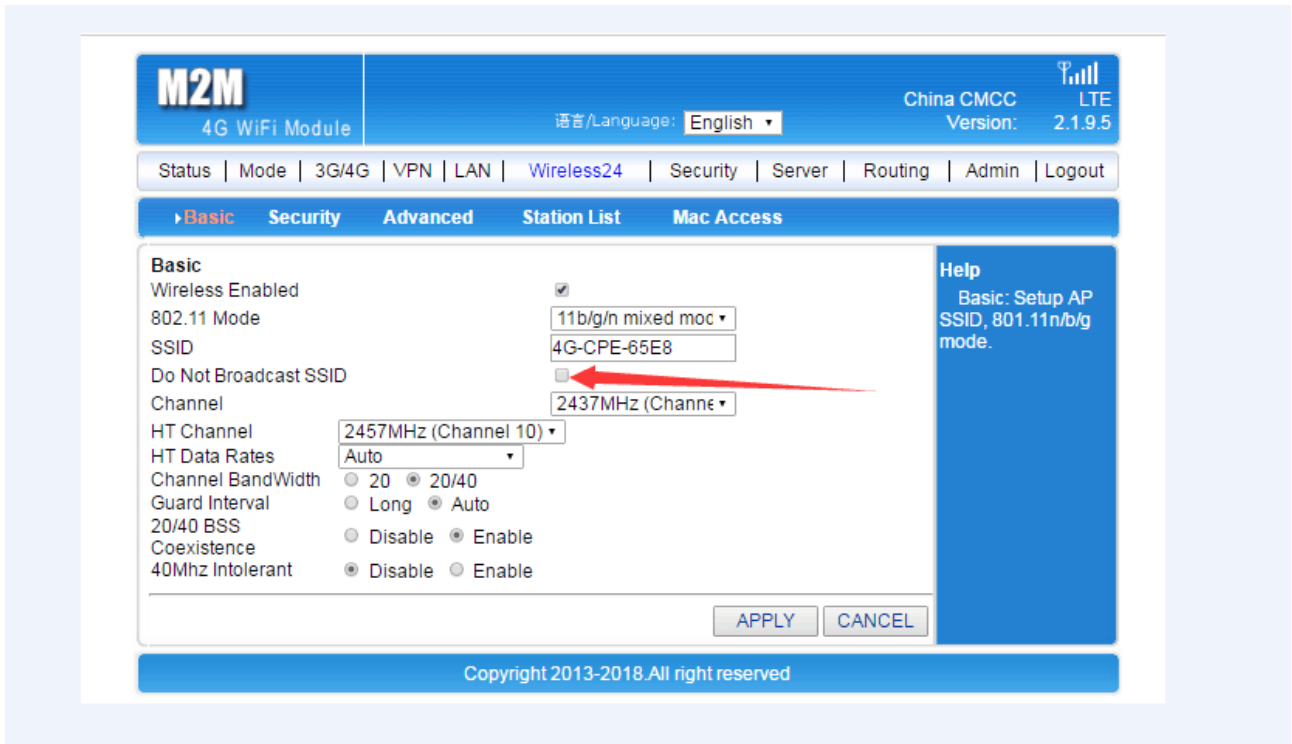
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**Help**  
Security: Setup wireless AP security. use WPA2PSK, AES is good choice.

Tips: After the setup is complete, your phone's WIFI connection may be disconnected, reconnect to the WIFI name you set, and enter the password you set to connect.

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In the router management background interface, click the navigation bar "2.4G Wireless" - "Wireless Settings", do not check the broadcast SSID, click the "OK" button to hide the WIFI.



Tips: Please remember your WIFI name and password before setting. Your WIFI connection may be disconnected. You need to manually add the set WIFI name and enter the password you set to connect.

## 5.2 4G Wireless Router Working Mode Setting

### 5.2.1 3G/4G Wireless router mode

This mode is the default mode. When a 3G/4G tariff card is inserted, the router will automatically recognize the 3G/4G network. You can also define the network operator you need to choose.

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M2M

China CMCC  
LTE  
Version: 2.1.9.5

语言/Language: English

Status | Mode | **3G/4G** | VPN | LAN | Wireless24 | Security | Server | Routing | Admin | Logout

Setup
Break-Detection
DDNS
AT CMD

**3G/4G setup**

Dial Device  3G/4G Device  UART1

Auto select 3G/4G ISP  Break Detection **Enable**

3G/4G ISP TD-SCDMA/LTE

APN cmnet

Pin Code

Dialed Number \*99\*\*\*1#

Username

Password

Authentication  Auto  CHAP  PAP

Auto Dial-up

Router will reboot after dial: 3 times failed. (0 will disabled)

Extra AT cmd  (If there are more then one AT cmd, please use ';')

Use local IP  0

Primary DNS Server

Secondary DNS Server  (Optional)

Network Type Auto

APPLY
CANCEL

**Help**

3G/4G setup: Setup 3G/4G modem dial information.if enable 'Auto select 3G/4G ISP',The device will automatic input ISP dial information by IMSI. But the fuction olny use for Chinese ISP.

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For example:

Operator	3G/4G net	APN	dial number	User name	password
China Mobile	TD-SCDMA	cmnet	*99# 或	card	card
	TDD-LTE		*98*1#		
China Telecom	CDMA2000	ctnet	#777	Card	card
	FDD-LTE				
China Unicom	WCDMA	3gnet	*99#	empty	empty
	FDD-LTE				

## 5.2.2 Standard wireless routing mode

When you are ready to use the "standard wireless routing mode", please note that the available network cable is plugged into the WAN port of the device. If the broadband input setting is completed, you need to set the "WAN setting" in the status bar - "Connection mode" and "Internet access mode". Choose the way you need PPPoE, DHCP, static IP.

### 1) Static internet access

Enter the router management interface working mode to select the standard routing mode, WAN

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settings Internet access mode to select a static address, enter the IP address, network mask, gateway, DNS and other related parameters provided by the ISP, click to confirm.



The screenshot shows the M2M 4G WiFi Module web interface. The top navigation bar includes 'Status', 'Mode', 'WAN', 'VPN', 'LAN', 'Wireless24', 'Security', 'Server', 'Routing', 'Admin', and 'Logout'. The 'WAN' tab is active. The 'WAN Setup' section is displayed with the following fields:

- Connection Type: **STATIC (fixed IP)** (dropdown menu)
- IP Address: 0.0.0.0
- Subnet Mask: 0.0.0.0
- Default Gateway: 0.0.0.0
- MTU: 1500 (range: 576~1500)
- Primary DNS Server: (empty)
- Secondary DNS Server: (empty) (Optional)

Buttons for 'APPLY' and 'CANCEL' are at the bottom. A 'Help' sidebar on the right contains the text: "Static IP Settings: Setup IP, Subnet Mask and Gateway provided by your ISP. MTU is the Maximum Transmission Unit of a network. DNS server address must be entered manually, and also must be only one." The footer shows 'Copyright 2013-2018, All right reserved'.

## 2) Dynamic internet access

Enter the router management interface working mode, select the standard routing mode, select the dynamic address in the WAN setting Internet mode, click Confirm, the router will automatically obtain the parameters assigned by the ISP.



The screenshot shows the M2M 4G WiFi Module web interface. The top navigation bar includes 'Status', 'Mode', 'WAN', 'VPN', 'LAN', 'Wireless24', 'Security', 'Server', 'Routing', 'Admin', and 'Logout'. The 'WAN' tab is active. The 'WAN Setup' section is displayed with the following fields:

- Connection Type: **DHCP (Auto config)** (dropdown menu)
- MTU: 1500 (range: 576~1500)
- Primary DNS Server: (empty) (Optional)
- Secondary DNS Server: (empty) (Optional)
- Hostname: (empty) (Optional)

Buttons for 'APPLY' and 'CANCEL' are at the bottom. A 'Help' sidebar on the right contains the text: "WAN Setup: MTU is the Maximum Transmission Unit of a network. You can setup DNS server address to obtain it manually or the one provided by ISP." The footer shows 'Copyright 2013-2018, All right reserved'.

## 3) PPPoE Internet access

Enter the router management interface working mode, standard routing mode, WAN setting

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Internet access mode to select PPPoE, enter the user name, password and other related parameters provided by the ISP, click to confirm.



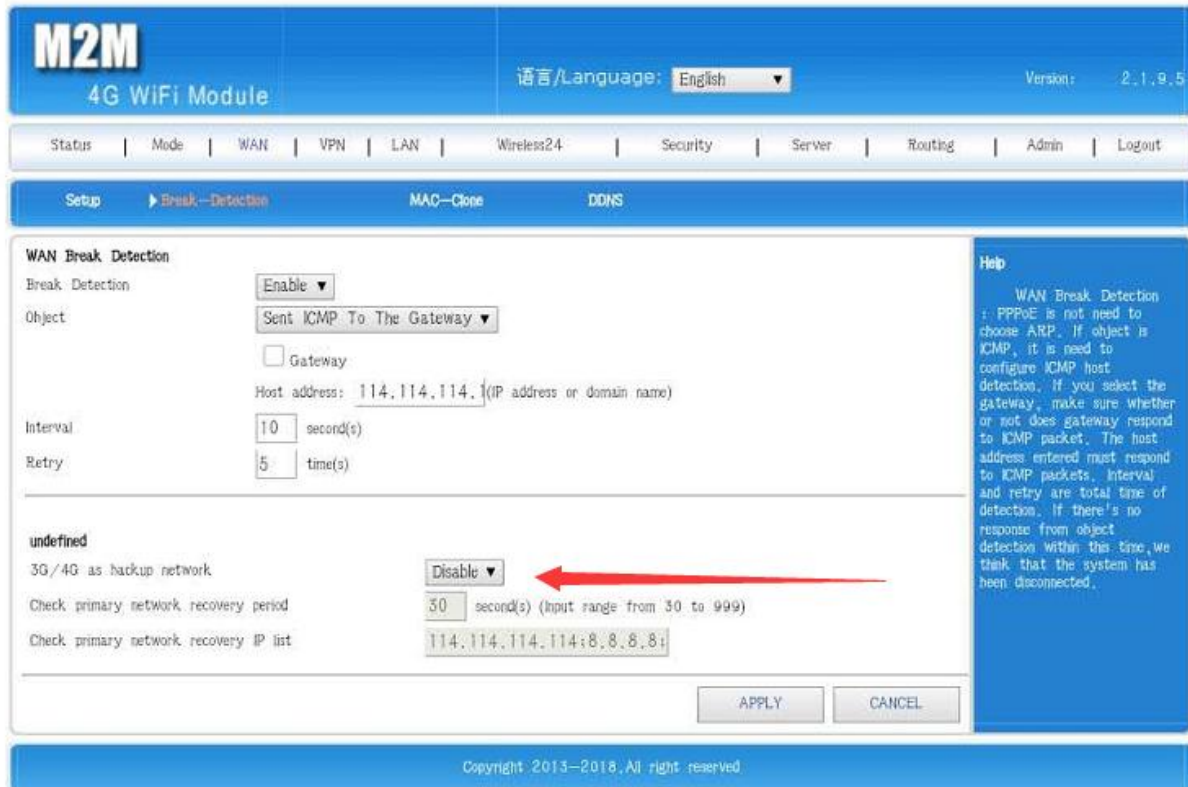
The screenshot shows the 'WAN Setup' configuration page in the M2M 4G WiFi Module web interface. The interface has a blue header with the 'M2M' logo and '4G WiFi Module' text. A language dropdown is set to 'English' and the version is '2.1.9.5'. A navigation bar includes 'Status', 'Mode', 'WAN', 'VPN', 'LAN', 'Wireless24', 'Security', 'Server', 'Backup', 'Admin', and 'Logout'. The 'WAN Setup' section is active, showing a dropdown for 'Connection Type' set to 'PPPoE (ADSL)'. Below this are input fields for 'PPPoE Username' (containing 'PPPoE'), 'PPPoE Password' (masked with dots), 'MTU' (1492, with a note '(544\*1492)'), 'Primary DNS Server', 'Secondary DNS Server', 'Hostname', and 'Service Name', all with '(Optional)' labels. A 'Help' box on the right explains PPPoE settings. At the bottom are 'APPLY' and 'CANCEL' buttons. The footer contains 'Copyright 2013-2018. All right reserved'.

Wireless AP+ Wireless Client Bridge Mode (Wireless Relay) and Wireless AP+ client mode (wireless signal reception) Very useful features are not detailed here, users who need to know, please contact the relevant supplier

### 5.3 4G Network backup

In the standard router mode, the network in the network cable is used by default. In the navigation bar "Disconnection Detection", "3G4G is used as the backup network", select Enable and then click the "OK" button to enable the 4G network backup function.。

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**M2M**  
4G WiFi Module

语言/Language: English Version: 2.1.9.5

Status | Mode | WAN | VPN | LAN | Wireless24 | Security | Server | Routing | Admin | Logout

Setup > Break-Detection MAC-Clone DDNS

**WAN Break Detection**

Break Detection: Enable

Object: Sent ICMP To The Gateway

Gateway

Host address: 114.114.114.114 (IP address or domain name)

Interval: 10 second(s)

Retry: 5 time(s)

---

undefined

3G/4G as backup network: Disable

Check primary network recovery period: 30 second(s) (input range from 30 to 999)

Check primary network recovery IP list: 114.114.114.114;8.8.8.8

APPLY CANCEL

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**Help**

WAN Break Detection : PPPoE is not need to choose ARP. If object is ICMP, it is need to configure ICMP host detection. If you select the gateway, make sure whether or not does gateway respond to ICMP packet. The host address entered must respond to ICMP packets. Interval and retry are total time of detection. If there's no response from object detection within this time, we think that the system has been disconnected.

Tips: This feature requires both a network cable and a tariff card to be inserted. The default priority of the function is to insert the network in the router WAN hole network cable. When the software and hardware detects that the network cable network is unreachable, the default is automatically switched to the network in the tariff card by 30-60 seconds. When the network is restored, the device automatically switches to the network. Network in the network cable.

## 5.4 SMS service

If the router is equipped with a 3G/4G tariff card that can send and receive SMS messages, then we can send a text message to the router through the set mobile phone number to enable the remote control router to boot, shut down and restart, and verify whether the router is online. The interface is as follows:



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M2M

 LTE  
 China CMCC  
 Version: 2.1.9.5

4G WiFi Module
语言/Language: English

Status | Mode | 3G/4G | VPN | LAN | Wireless24 | Security | Server | Routing | Admin | Logout

Virtual-Server | Application | DMZ | Sms | WIFI DOG

**Sms Service**

Sms center number  Optional

Access user phone 1

Access user phone 2

Access user phone 3

Access user phone 4

Access user phone 5

---

Inform  Enable

Access  Enable

---

Message

Help

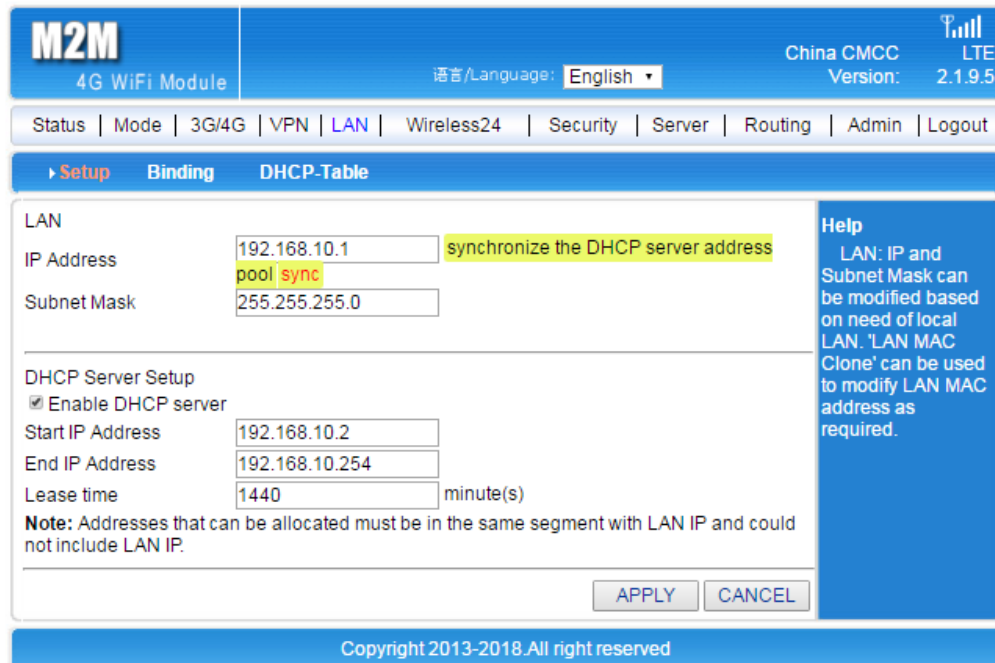
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Tips: This function needs to be inserted into the router's tariff card with SMS function. The router reaches about 30 seconds under the command. Do not manually operate the router during this period.

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## 5.5 LAN set

LAN set: The IP address and subnet mask can be modified according to the needs of the local LAN. For example, a general wired camera.



The screenshot shows the M2M 4G WiFi Module web interface. At the top, it displays 'M2M 4G WiFi Module' and 'China CMCC LTE Version: 2.1.9.5'. The language is set to 'English'. A navigation menu includes 'Status', 'Mode', '3G/4G', 'VPN', 'LAN', 'Wireless24', 'Security', 'Server', 'Routing', 'Admin', and 'Logout'. The 'LAN' section is active, showing 'Binding' and 'DHCP-Table' options. The LAN configuration includes:
 

- IP Address: 192.168.10.1 (with a 'synchronize the DHCP server address' button)
- Subnet Mask: 255.255.255.0
- DHCP Server Setup:
  - Enable DHCP server
  - Start IP Address: 192.168.10.2
  - End IP Address: 192.168.10.254
  - Lease time: 1440 minute(s)
- Note: Addresses that can be allocated must be in the same segment with LAN IP and could not include LAN IP.

 A 'Help' sidebar on the right explains that LAN IP and Subnet Mask can be modified based on local LAN needs, and that 'LAN MAC Clone' can be used to modify the LAN MAC address. 'APPLY' and 'CANCEL' buttons are at the bottom of the configuration area. The footer states 'Copyright 2013-2018.All right reserved'.

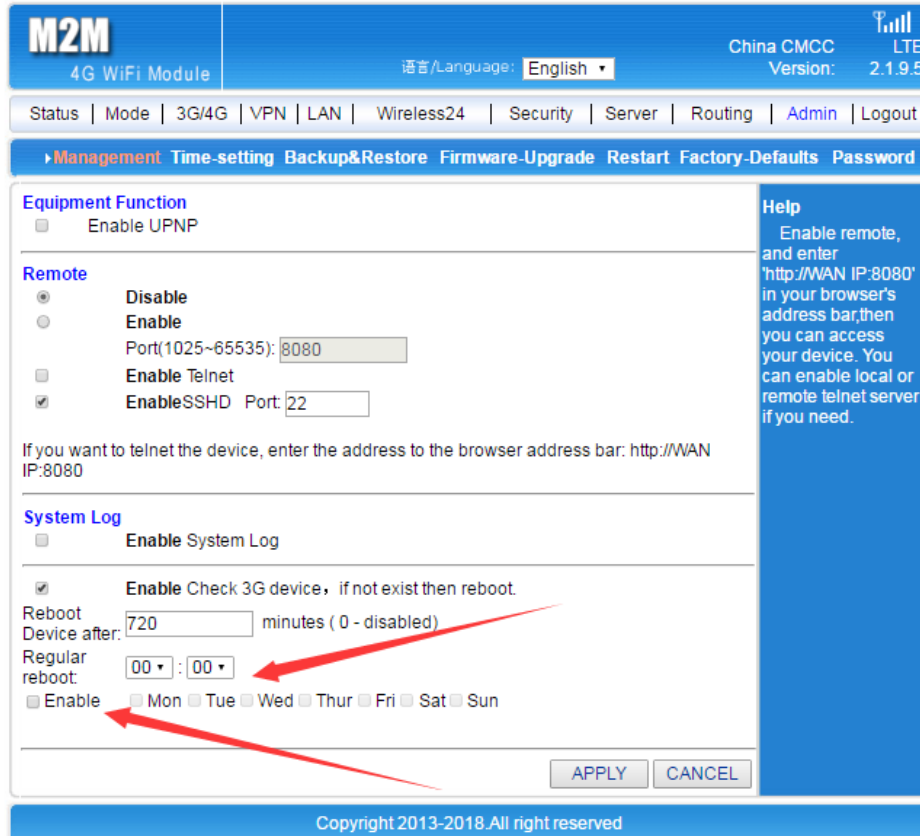
Note: The assignable address must be on the same network segment as the LAN port IP and the IP address of the LAN cannot be in the allocatable range.



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## 5.6 Timed restart

This router supports scheduled restart. You can set the specific timing restart time according to your needs to improve the stability and use effect of the device for long-term use.



**M2M** 4G WiFi Module

语言/Language: English

China CMCC Version: 2.1.9.5

Status | Mode | 3G/4G | VPN | LAN | Wireless24 | Security | Server | Routing | Admin | Logout

Management Time-setting Backup&Restore Firmware-Upgrade Restart Factory-Defaults Password

**Equipment Function**

Enable UPNP

---

**Remote**

Disable

Enable

Port(1025~65535): 8080

Enable Telnet

EnableSSHD Port: 22

If you want to telnet the device, enter the address to the browser address bar: http://WAN IP:8080

---

**System Log**

Enable System Log

---

Enable Check 3G device, if not exist then reboot.

Reboot Device after: 720 minutes (0 - disabled)

Regular reboot: 00 : 00

Enable  Mon  Tue  Wed  Thur  Fri  Sat  Sun

APPLY CANCEL

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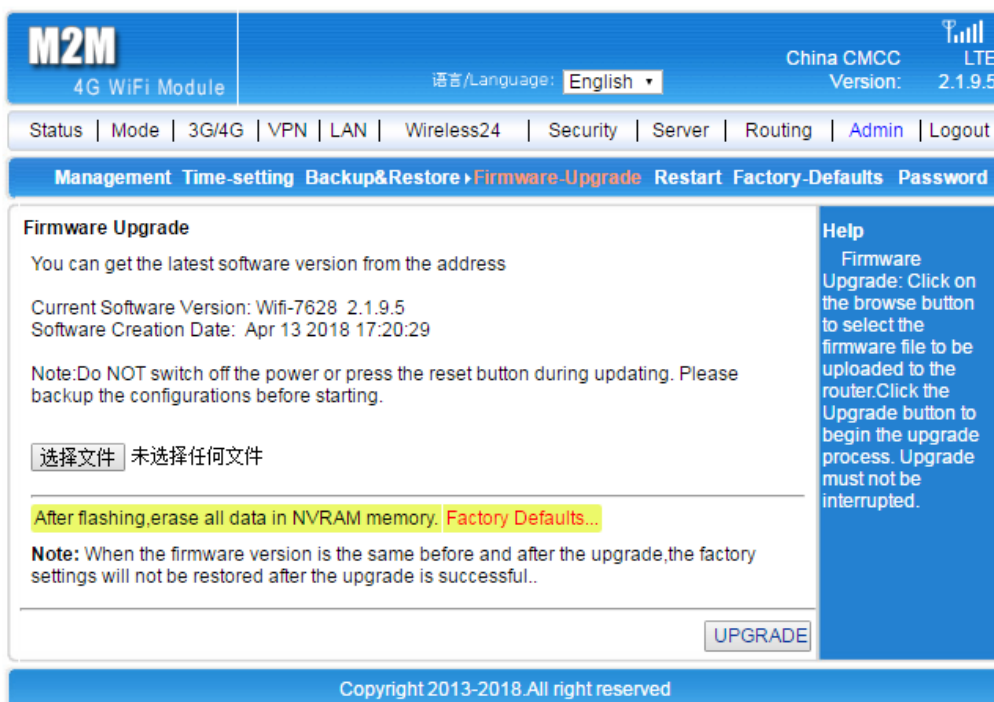
## 6. Equipment management

### 6.1 Software Upgrade

With a software upgrade, you can load the latest version of the software into your router for more features and more stable performance.

The software upgrade steps are as follows:

- (1) Save the upgrade file of the router to the local computer.
- (2) Click the <Browse> button and select the software you want to upgrade.
- (3) Click the <Upgrade> button to start the upgrade.



The screenshot shows the M2M 4G WiFi Module web interface. At the top, there is a header with the M2M logo, '4G WiFi Module', and a language dropdown set to 'English'. The status bar shows 'China CMCC' and 'LTE Version: 2.1.9.5'. A navigation menu includes 'Status', 'Mode', '3G/4G', 'VPN', 'LAN', 'Wireless24', 'Security', 'Server', 'Routing', 'Admin', and 'Logout'. The main content area is titled 'Firmware Upgrade' and contains the following text:

You can get the latest software version from the address

Current Software Version: Wifi-7628 2.1.9.5  
Software Creation Date: Apr 13 2018 17:20:29

Note: Do NOT switch off the power or press the reset button during updating. Please backup the configurations before starting.

选择文件 未选择任何文件

After flashing, erase all data in NVRAM memory. [Factory Defaults...](#)

Note: When the firmware version is the same before and after the upgrade, the factory settings will not be restored after the upgrade is successful.

UPGRADE

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The 'Help' sidebar on the right contains the following text:

Help  
Firmware Upgrade: Click on the browse button to select the firmware file to be uploaded to the router. Click the Upgrade button to begin the upgrade process. Upgrade must not be interrupted.

Tips: After the firmware upgrade is complete (the device is normally turned on), it is recommended to press the RESET button to manually restore the factory.

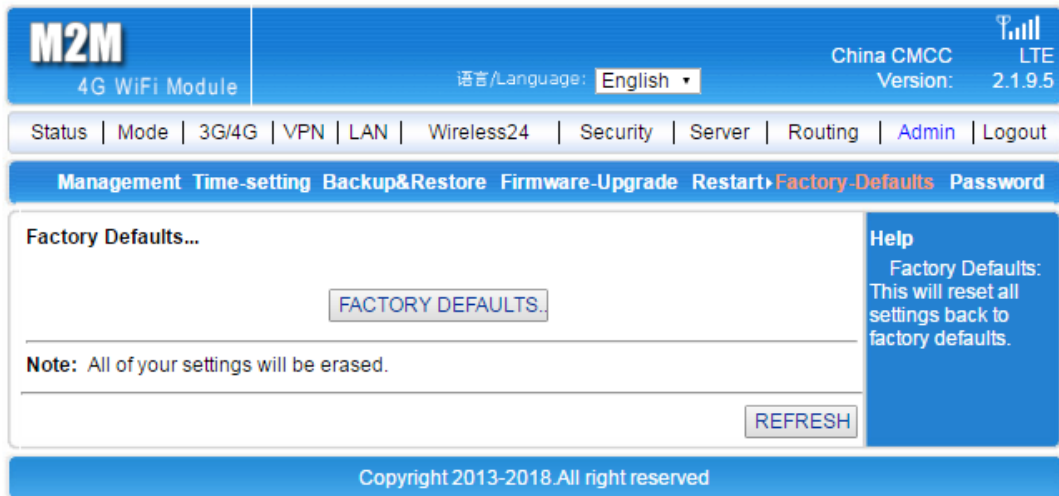
### 6.2 Restore factory value

During the recovery setup process, the wireless router will reboot.

Restoring to the factory settings will clear all settings information of the wireless router and return to the initial state.

Click the <Restore Factory Value> button to confirm and restore the factory settings.

File Name:	User Manual	Version	1.0
Project:	MC118 4G Wireless Router	Update Date:	2018-9-6
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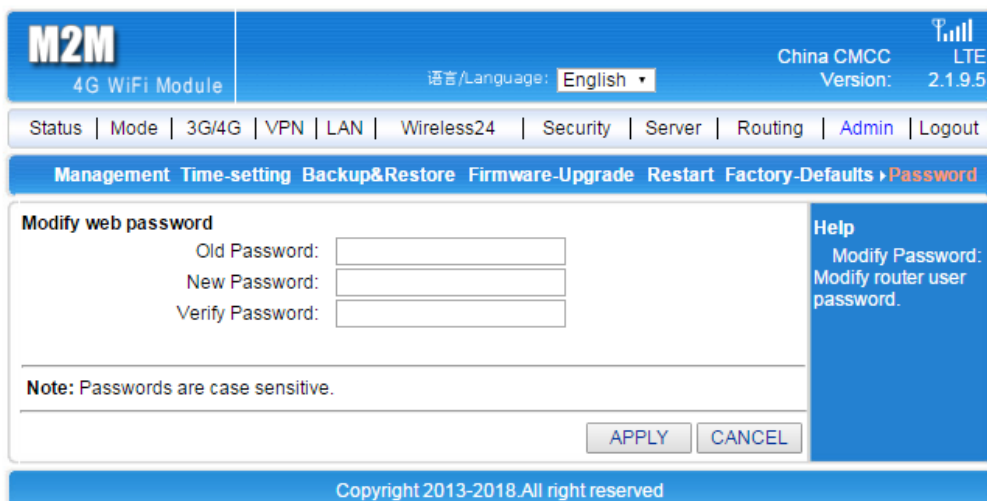


## 6.3 Password management

The default username/password of the wireless router is admin, the username cannot be modified, and the password can be modified. For security reasons, it is recommended to modify this password and keep the password information.

The setup steps are as follows:

- (1) Enter the original password in the <Original Password> text box; enter the new password in the <New Password> text box, and re-enter the new password in the <Confirm Password> text box to confirm.
- (2) Click the <OK> button to complete the password modification.



File Name:	User Manual	Version	1.0
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## 7. FAQ

### 1. What if I forgot my username and password? (How to reset the router?)

If you have forgotten your username and password, or you can't enter the device background interactive interface during the setup process, you can press the RESET button on the device for 5-8 seconds while the router is powered on, and then release the router to the factory. status.

### 1. Can't find the WIFI signal of the router?

Connect the LAN port through the network cable and log in to the router management interface. "2.4G Wireless" wireless function enable/disable, confirm this option and select Enable. If you don't have a computer, you can reset the router. See question 1 for details.

### 2. The router signal light is on, there is data transmission, but the internet speed is slow?

1 Move the router to another location, such as near the window, to ensure better reception of 4G signals.

2 Power cycle and let the router restart.

3 Keep the distance from the router as short as possible to reduce the intermediate obstruction.

### 3. When the router is running, change the card. Why can't the device read the SIM card?

The device does not support hot swap of the SIM card. The plugging and unplugging action is performed when the router is powered off.

### 4. Why use wireless to access the Internet??

①If the user's location signal is weak or the user volume is large, it will affect the 4G download rate. Please consult the SIM card provider for details.

②Please check if other users in the router are doing big data downloads.

③Please check if there are strong magnetic fields or strong electric field interference sources around the router, such as microwave ovens, refrigerators, etc.

④The distance between the location of the WIFI and the equipment used and whether there is obstruction, the signal is attenuated.