HORIZON

MH500C User Manual

Package Contents

 MH500C Pocket WIFI

 Battery(5000mA)

 USB Cable (Type-c plug, USB3.0)

 USB Power Adapter

 Quick Start Guide

If any of the above items are missing from your package, please contact sales@horizonpowered.com

Installation

This section will guide you through the installation process.

Initial Setup

1. Ensure that your MH500C MiFi is powered off.

2. Remove the battery cover by lifting up on the bottom right corner of it, then remove the battery.

3. Push the SIM card slot cover down to unlock it, then lift it open.
Note: Always unplug and turn off the router before installing or removing the SIM card. Never insert or remove the SIM card while the router is in use.

4. Insert the SIM card, ensuring that the alignment is the same as indicated by the logo next to the slot. The gold contacts on the card should be facing downwards.

5. Lower the SIM card slot cover and push it up to lock it.

6. If want to use a microSD card, you can insert it into the microSD card slot in the same manner as the SIM card.

7. Reinsert the battery and reattach the battery cover.

8. Fully charge the MH500C MiFi before use by connecting the supplied Micro USB cable to the USB charger. You may check the device's battery status while powered off by pressing the power button on the side of the device.

9. Press and hold the power button until the MIFI logo appears onscreen. After a few moments, the LCD will change to a home screen. The network name (SSID) and connect QR Code can be accessed. Default ssid and password:

5GHz ssid: smartmifi_5G_xxxxxx   password: 12345678
2.4GHz ssid: smartmifi_2G_xxxxxx   password: 12345678
"xxxxxx" is the last 6 bits of MAC

Wireless Installation Considerations

The MH500C MiFi can be accessed using a wireless connection from anywhere within the operating range of its wireless network. Keep in mind that the quantity, thickness, and location of walls, ceilings, or other objects that the wireless signals must pass through may adversely affect wireless signals. Ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or office. The key to maximizing the wireless range is to follow these basic guidelines:

1. Minimize the number of walls and ceilings between the router and other network devices. Each wall or ceiling can reduce your adapter's range from 3 to 90 feet (1 to 30 meters).

2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (0.5 meters) appears to be almost 3 feet (1 meter) thick at a 45-degree angle. At a 2-degree angle it appears over 42 feet (14 meters) thick. Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.

3. 5GHz has a larger bandwidth and rate, but it will reduce the coverage area of the signal; 2.4GHz network can achieve greater network coverage, but the speed will be reduced accordingly

4. Try to position access points, wireless routers, and computers so that the signal passes through open doorways. Materials such as glass, metal, brick, insulation, concrete, and water can affect wireless performance. Large objects such as fish tanks, mirrors, file cabinets, metal doors, and aluminum studs may also have a negative effect on range.

5. If you are using a 2.4 GHz cordless phone, make sure that the 2.4 GHz phone base is as far away from your wireless device as possible. The base transmits a signal even when the phone is not in use. In some cases, cordless phones, X-10 wireless devices, and electronic equipment such as ceiling fans, fluorescent lights, and home security systems may dramatically degrade wireless connectivity.

1	Reset button	Using a paper clip, press and hold this button for 6 seconds to reboot the unit. *Note: Ensure that the battery is inserted and the unit is powered on when pressing the reset button.*
2	Power button	Hold this button for 3 seconds to power on/off the device
3	WPS button	start WPS for connecting other wireless devices,5G WIFI is enabled in 0-5 seconds, and 2G WIFI is enabled in more than 5 seconds
4	Type-c port	Can be used to charge and connect to the network
5	LCD	LCD supports touch screen, click ![WiFi] button to enter WIFI connection page, click ![SET UP] button to enter Device info page.
6	SIM Card Slot	Insert the tip of the tray eject tool into the hole and pull out the card tray and place the nano-SIM card on the tray and carefully slide the tray back into place

Configuration

This section will show you how to configure your new MH500C using the configuration utility that can be obtained through a software interface or a web-based user interface.

Initial Connection to the Router

When configuring the router for the first time, you will need to establish a direct connection with the router in order to access the web-based configuration utility. This can be done using the included USB cable, or by connecting wirelessly to the MIFI, as described in Connecting via Wi-Fi on **Connecting via Wi-Fi**. Once you have configured your router, you will be able to connect using the Wi-Fi settings that you have specified in the configuration process. Ensure that the router is powered on and has sufficient battery power before commencing the setup process.

Connecting via USB

To connect to the router via USB, plug the provided micro-USB cable into the micro-USB port on the side of the router, then plug the other end into an available USB port on your computer. Your router is now ready for configuration; please refer to the Configuration Utility on **Web-based Configuration** to continue the setup process.

Connecting via Wi-Fi

Note: The following example uses Windows 10's built-in wireless connection utility. If you are using a different operating system, or a third-party connection utility, the process may be different. Please refer to the documentation that came with your operating system or wireless client for further information on how to connect to a wireless network.

To connect to the router using Wi-Fi, open your operating system's wireless networking utility and scan for available networks to connect to. By default, the network name (SSID) of the 5G POCKET WIFI will be in the format **smartmifi_2G_XX** or **smartmifi_5G_XX**, where "xx" represents the last six characters of the MIFI's MAC address.
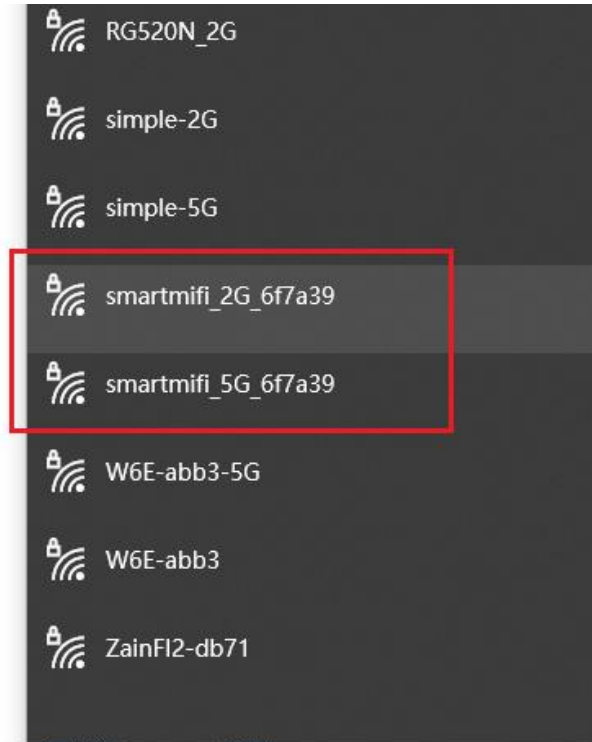
Both 2.4 GHz and 5 GHz network are enabled by default. To complete setup and refer to Wi-Fi Settings on WI-FI Setting

Connect a Wireless Client to your 5G POCKET WIFI Using WPS

The easiest way to connect your wireless devices to the router is with WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the 5G POCKET WIFI router. Please refer to your user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

Step 1 - Press the WPS button on the MH500C MiFi for about 2 seconds.

Step 2 - Within 2 minutes, press the WPS button on your wireless device.

Step 3 - Allow up to 1 minute for your connection to be configured. If successful, the device will connect to the 2.4GHz wireless network. If multiple attempts are unsuccessful, we suggest trying to connect by manually inputting the SSID and password.

Charging the MH500C MiFi

Fully charge the MH500C MiFi before use by connecting the supplied Micro USB cable to a powered USB port. You may check the device's battery status while connected via USB and powered off by pressing the WPS button on the side of the device. Battery life is dependent upon mobile data usage. If there is not enough power to boot, the LCD screen displays "Battery Low", please charge the device longer before attempting to power on.

Icon	Current Battery Capacity
	0-16%
	17-32%
	33-49%
	50-65%
	66-85%
	86-100%
	Charing

Web-based Configuration

To access the configuration utility, open a web browser (such as Internet Explorer) and enter the IP address of the router, which is **192.168.1.1** by default.
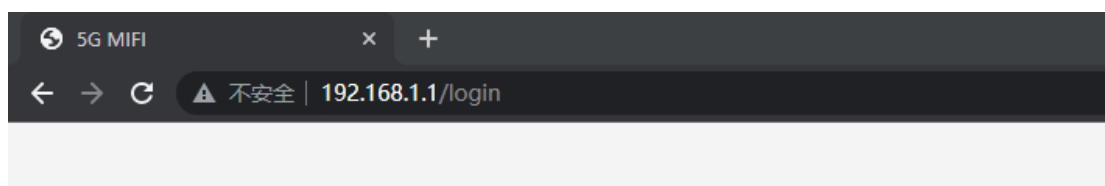
Configuration Utility

Once you have reached the configuration utility through your web browser, you will need to log in. Enter **admin** as the username, and then enter the password. By default, the password is also **admin**. Click LOG IN to continue.
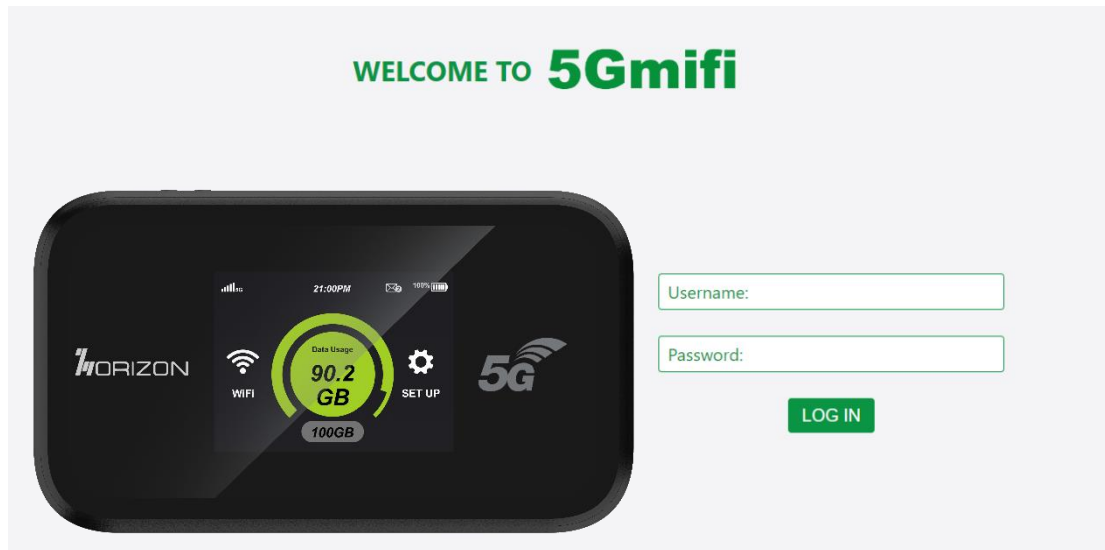
Initial Wizard

After logging in to the web page for the first time and resetting the device, you will enter the initial page to modify the user password and WIFI name password.

Click Next to enter the next page, and finally click Save to save.

1. When plugging in the USB cable to the PC, recognize the wireless network card, click the Save button, and directly enter the Change name and password on the Web page

2. When the USB cable is not plugged into the PC, you need to reconnect the modified WIFI name on the PC and log in to the Web page again
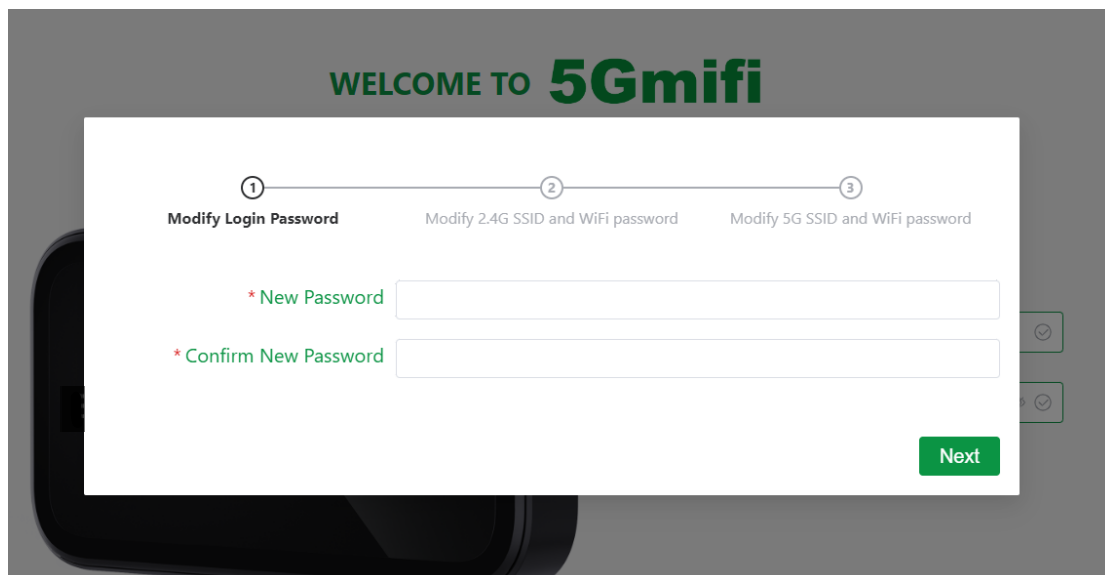
Navigation

On the homepage of the interface, you will find a menu bar at the top of the page which includes tabs for easy navigation, and a summary bar in the upper right corner with a quick view of essential

information.

CHANGE NAME AND PASSWORD: change 5GHz &2.4GHz SSID and password

SMS: SMS (message service) related usage and configuration

SD CARD: Manage your SD Card

ADVANCE SETTING: Advanced settings, including Connected Devices, Pocket WiFi Status, Settings, Lan Settings, Upgrade, Data Plan, USSD, NTP Server, Device Information

status bar

①   Signal strength of mobile network

②   Displays whether the Internet is currently available

③   Displays whether the SIM card is in place

④   Indicates whether the wireless network is enabled, and displays the number of connected clients

⑤   Percentage of remaining electricity

⑥   User logout and return to the login interface

CHANGE NAME AND PASSWORD

Setup 5GHz WIFI SSID and password, effective after clicking **Save.**

Note: *when wireless is set, the wireless network will restart, and the connected devices will be disconnected during this period. Please manually reconnect to WIFI.*
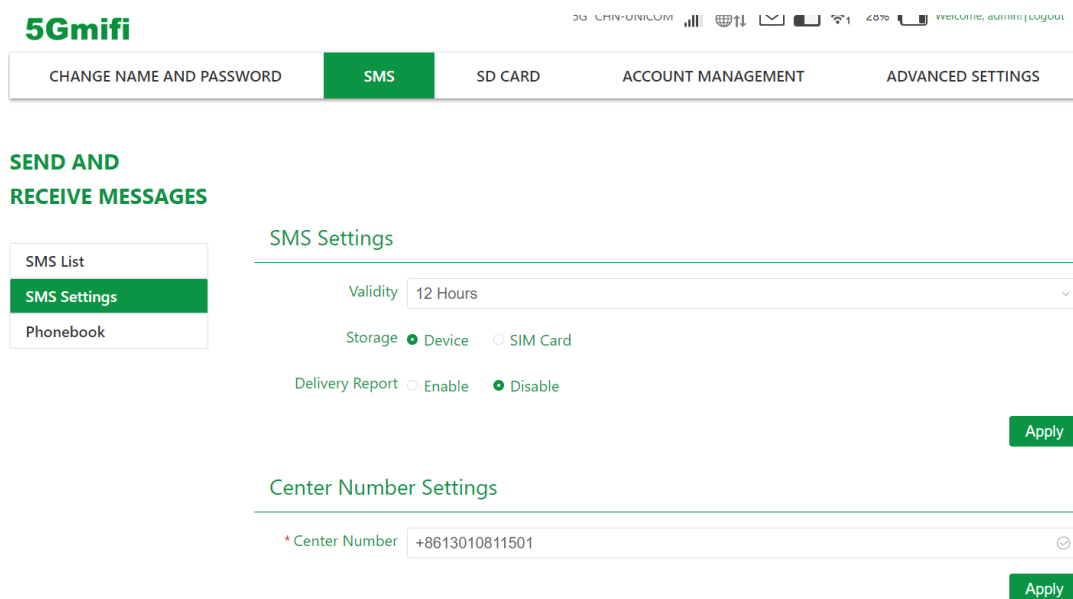
SMS

SMS List

This page is used for sending and receiving SMS messages, For the specific contact entered, send a single SMS message.
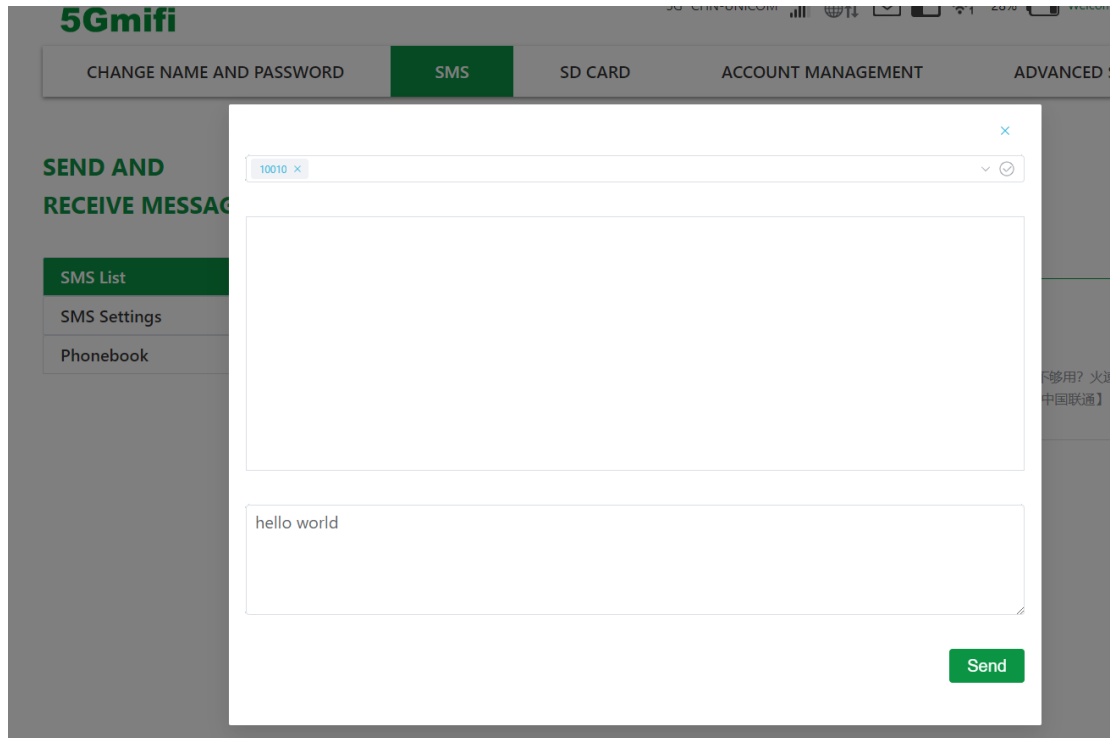
SMS Settings

This page is used to set SMS parameters, such as SMS center number, Validity time.

Phonebook

Used to record and display telephone contacts, more than 10 contacts will be displayed in pages.

SD CARD

SD CARD needs to be inserted into the MH500C MiFi device, and the MiFi is in the power-on state.

ADVANCE SETTING

MANAGE YOUR
SMART ACCOUNT

Connected Devices

The uplink and downlink rate of the current network will be displayed here, and the currently connected client devices will also be displayed.

Click **Connect** button and the device will initiate reconnection to the network.
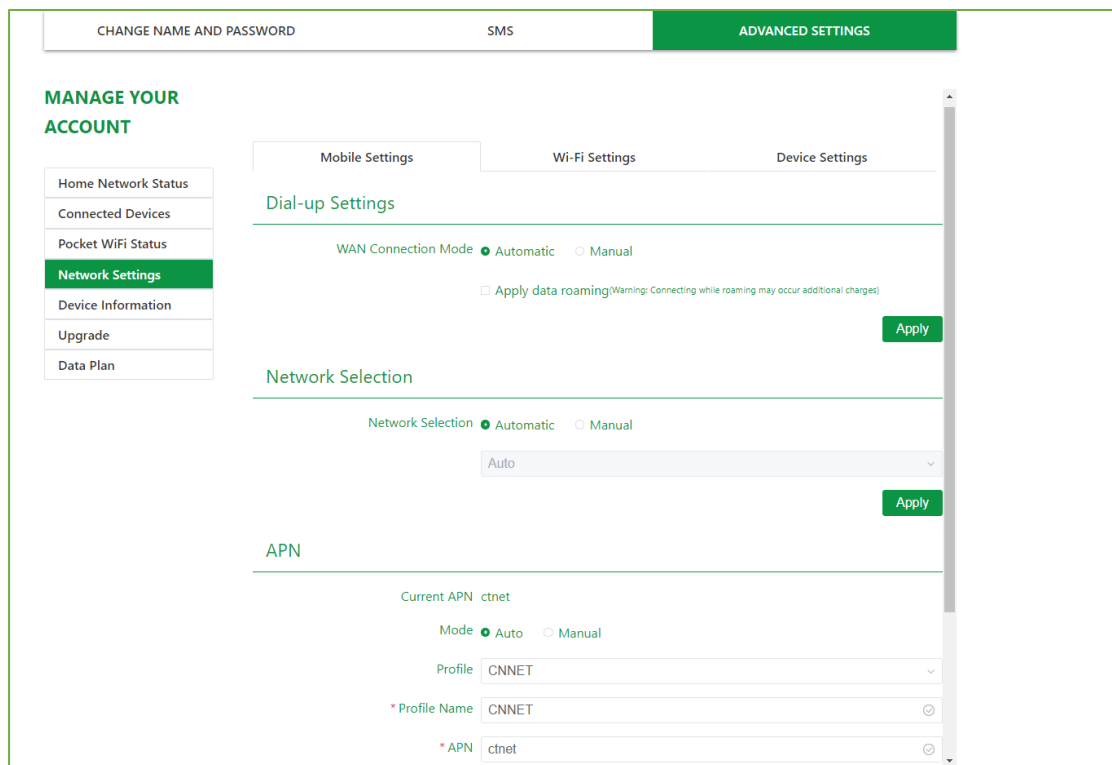
Click **Block** button will block the connection of the client device.

Pocket WIFI Status

This page allows users to view WiFi status. For example, Pocket WiFi Name, Wi-Fi password and Connected devices.
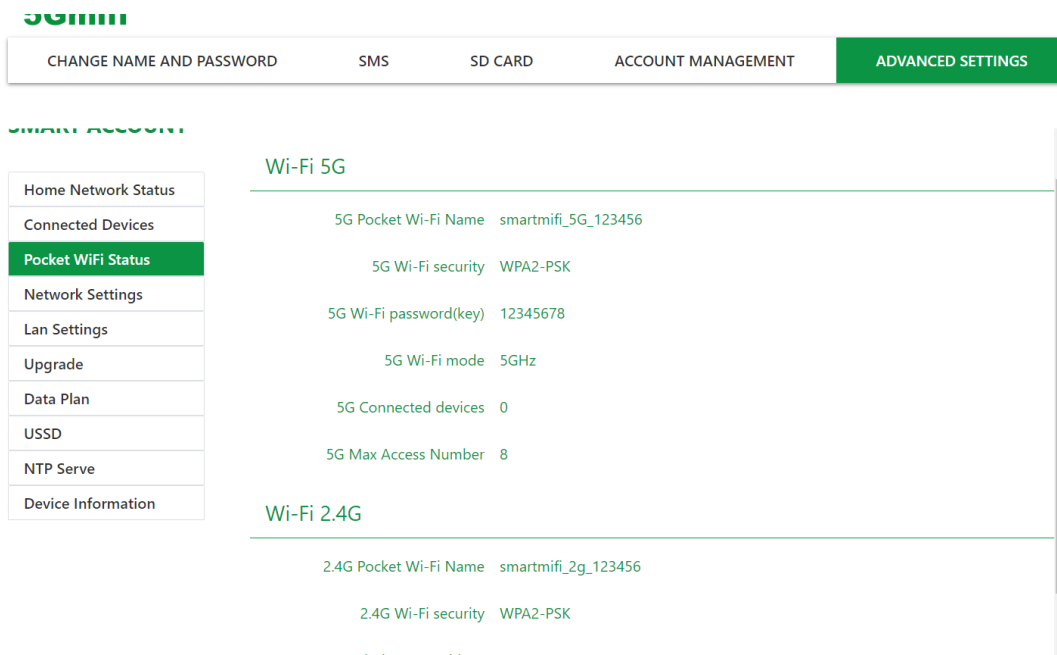
Network Settings - Mobile Settings

This page is used to configure the parameters for the module to access the Internet. For example, network mode selection and dial-up selection and configure the parameters for the module to access the Internet. For example, and set the apn parameters automatically and manually.

Network Settings - Wi-Fi Settings

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. For example, Pocket WIFI Name, Pocket WIFI Password and Max Station Number.

Network-Settings - Device Settings-Account Management

This tab allows you to customize your own password

 If you want to change your password, enter the new password here, then enter it again in the Confirm Password text box

.

Click **Apply** to save changes.

Network-Settings - Device Settings-Backup &Restore

This page lets you import and export your router settings, and you can reboot the router or reset it back to the factory defaults.
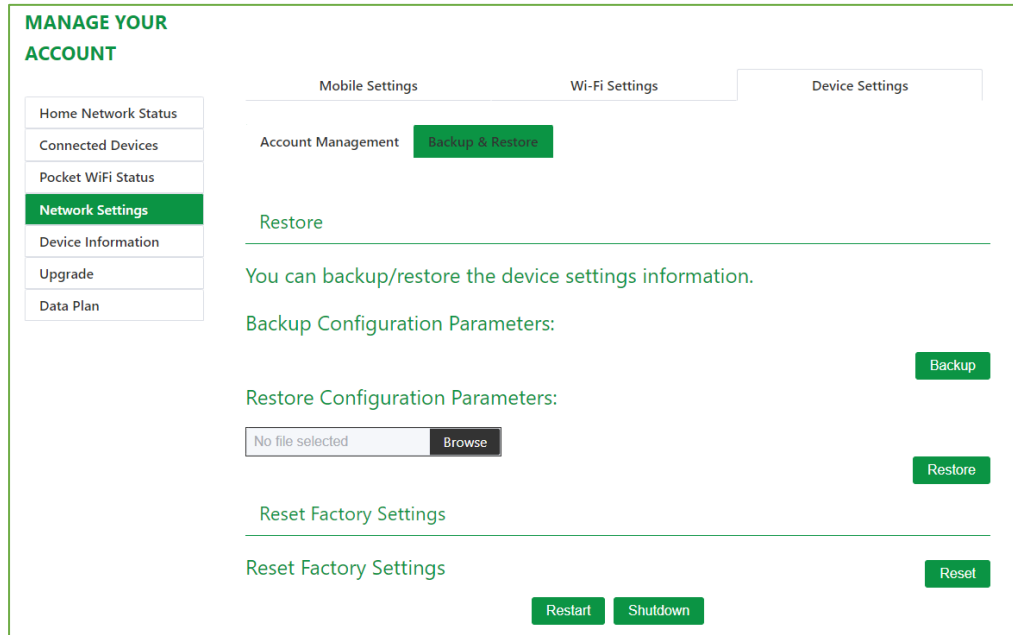
Export Profiles

This tab lets you export the current router settings to a computer. To export settings, click the **Backup** button and select a location to save the file to.

Import Profiles

This tab lets you import previously configured settings for the router. To import settings, click **Browse** and select a file to import, then click the **Restore** Import button.

Reset and Restart & Shutdown

This tab lets you reboot your router or reset it to the factory defaults. Click **Reset** to Default to reset your router's settings to the factory defaults, or click **Restart** to reboot the router.

Click Shutdown to turn off the device.

You can also manually reset your router to the factory defaults by pressing the **RESET** button simultaneously for 8 seconds.

Upgrade - Local Upgrade

This page is mainly used to upgrade the device locally and display the current software version number and module version number. Click the upload box to upload the upgraded FOTA package, and the system will automatically complete the upgrade. The interval between the next local upgrade is 10 minutes.
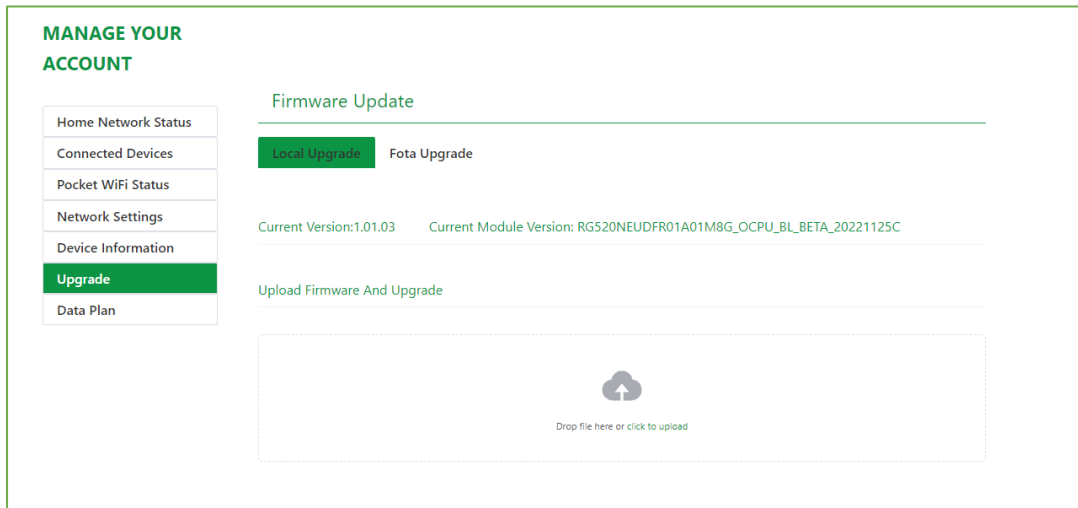
Upgrade - FOTA Upgrade

This page is mainly used to upgrade the cloud FOTA of the device and display the software version number and module version number. After the device is connected to the network, click the check button. If the cloud has an upgrade package that is newer than the local current device, the download upgrade option will appear. After confirmation, the device upgrade will be completed automatically.
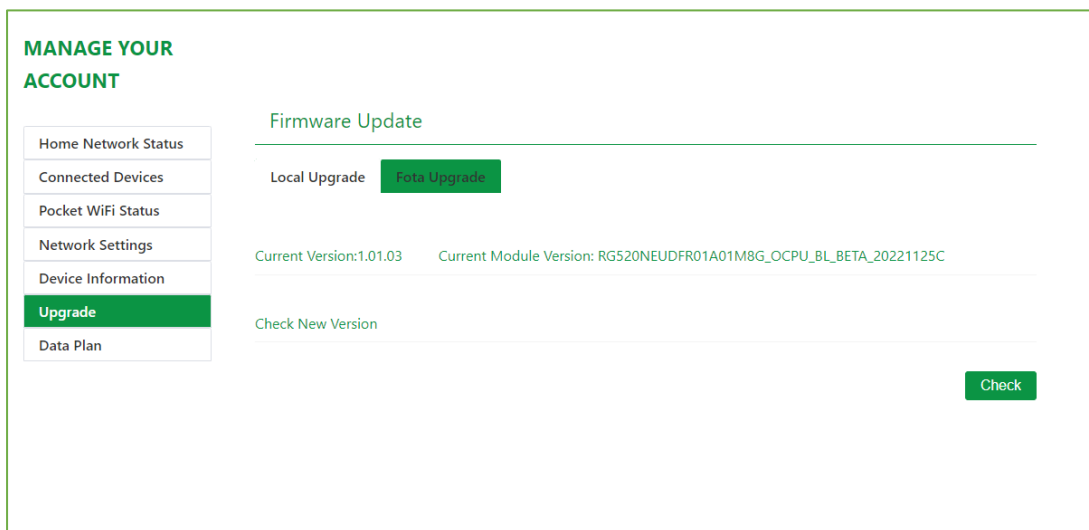
Data Plan

Total Data needs to be set by the user.

MANAGE YOUR
SMART ACCOUNT

- Home Network Status
- Connected Devices
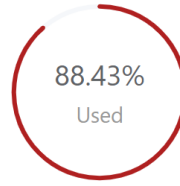- Pocket WiFi Status
- Network Settings
- Lan Settings
- Upgrade
- **Data Plan**
- USSD
- NTP Serve
- Device Information

88.43%
Used

Left Data 1.6199999999999992MB

Used Data 12.38   MB

* Total Data 14   ⊘ MB ⌄ ⊘

Data usage is approximate only. For actual usage, please refer to your network operator.

Reset Used Data   Correct

USSD

MANAGE YOUR
SMART ACCOUNT

- Home Network Status
- Connected Devices
- Pocket WiFi Status
- Network Settings
- Lan Settings
- Upgrade
- Data Plan
- **USSD**
- NTP Serve
- Device Information

USSD Settings

* Send To [   ]   Send

NTP Server

MANAGE YOUR
SMART ACCOUNT

- Home Network Status
- Connected Devices
- Pocket WiFi Status
- Network Settings
- Lan Settings
- Upgrade
- Data Plan
- USSD
- **NTP Serve**
- Device Information

Lan Settings

Current Time 🕐 2023/02/27 14:17:48

* Time Zone Etc/GMT   ⌄ ⊘

* NTP Server1 ph.pool.ntp.org   ⊘

NTP Server2 1.lede.pool.ntp.org   ⊘

NTP Server3 2.lede.pool.ntp.org   ⊘

Apply

Device Information

SIM Card Number	+▮
IMEI	86▮
IMSI	4600136▮
Signal Strength	-63dBm
Pocket WiFi Name	smartmifi_2g_123456 / smartmifi_5G_123456
Max Access Number	16
Lan Domain	www.smartmifi.net
IP Address	192.168.1.1
WAN IP Address	10.127.157.123
Software Version	1.01.02
Hardware Version	A1

Navigation menu:
- Home Network Status
- Connected Devices
- Pocket WiFi Status
- Network Settings
- Lan Settings
- Upgrade
- Data Plan
- USSD
- NTP Serve
- **Device Information**

This page lets you view various network statistics about your router and data usage. It is recommended that you configure the overall data traffic value when using it for the first time

LCD Screen

The size of the touch screen is 320 * 240, and the main desktop is as follows:

| icon	
.ıɪɪ‖5G	Signal Strength and Network Mode of Mobile Network
✉2	Indicates an SMS unread mail message entry
▥	Indicates the remaining power information
📶 WiFi	Quickly access WIFI information by touching it
⚙ SET UP	Touch it to access device settings information

WIFI

- Showing the Wi-Fi QR code to scan.

Setup

Touch each icon to explore and set the device Settings:

Setup->Wi-Fi
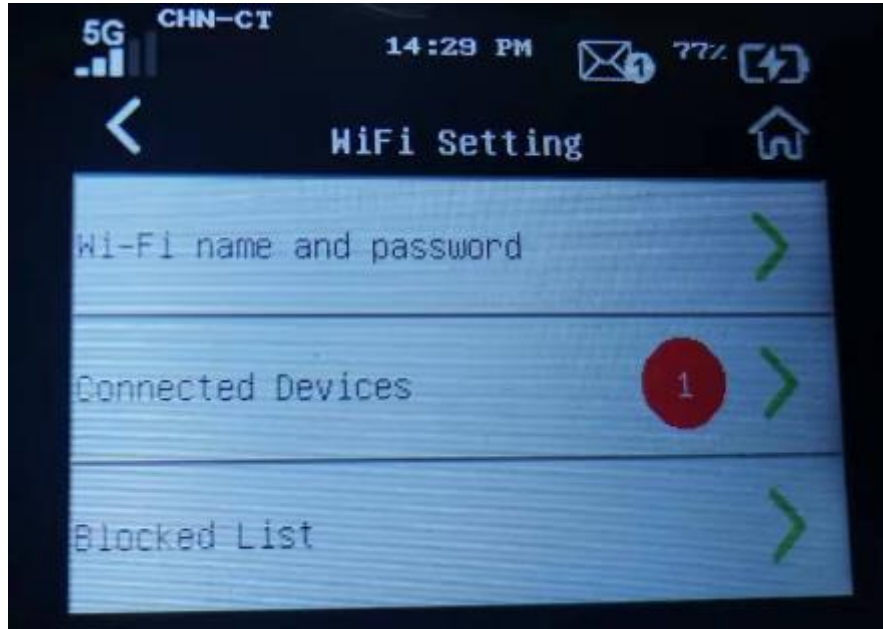
- Show the Wi-Fi name and password
- View Connected Devices. You can block a device after viewing it.
- Show the list of blocked devices
- 2.4GHz connections are most commonly used. In certain circumstances the 2.4GHz Wi-Fi spectrum may be congested, which will result in your 2.4GHz Wi-Fi speeds slowing down. If your connecting device supports 5GHz WI-FI then this will likely give faster speeds however shorter Wi-Fi range.

Setup->Network
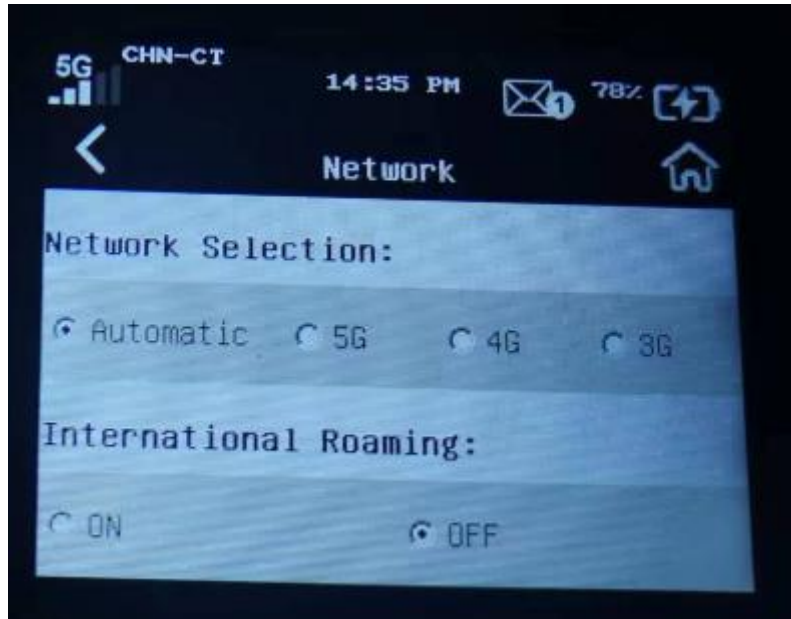
- Switch International Roaming on or off (note extra charges may apply when roaming)
- Set the Network Selection mode, Automatic, 5G, 4G or 3G only

Setup->Device
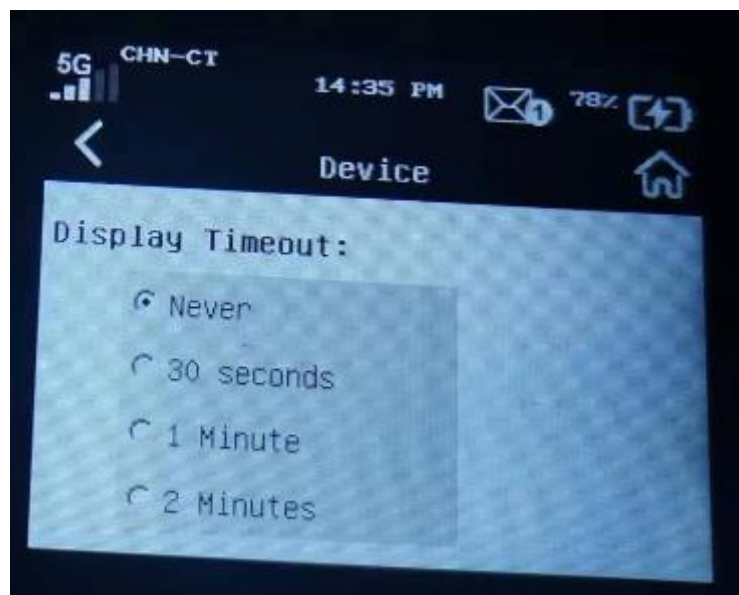
- Set the screen display timeout

Setup->Message
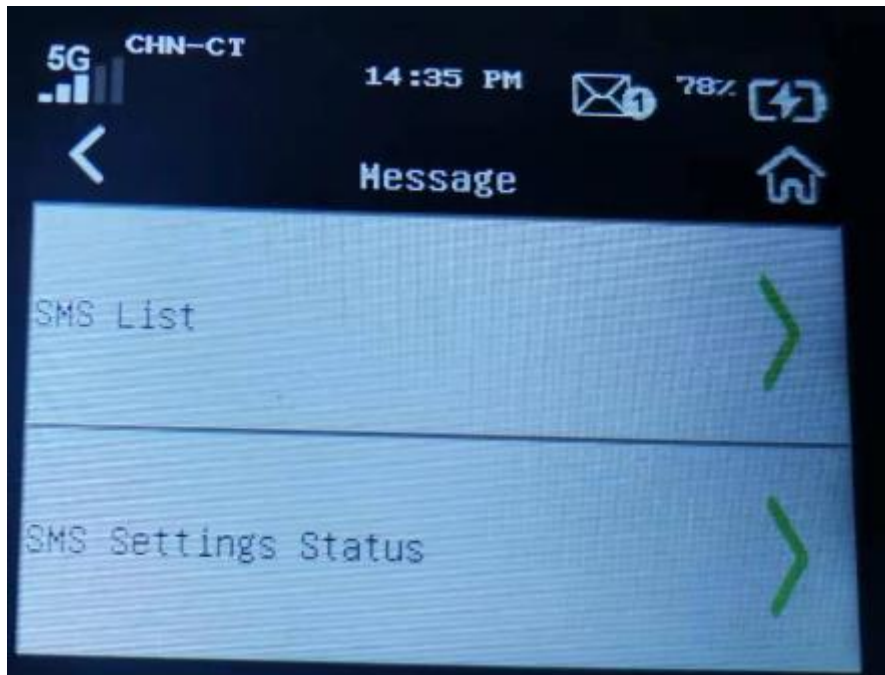
- SMS List messages will be displayed in the Messages section. Tap each message to read or delete.
- SMS Settings Status: Display SMS related configuration status information.

Setup->Reset

- Reset the modem to factory conditions. All passwords will be reset, all Messages will be erased.

Setup->About

- View the device information, mobile service number (MSISDN), device IMEI number, IMSI number, IP Address, Wan IP Address, and software version.

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Troubleshooting
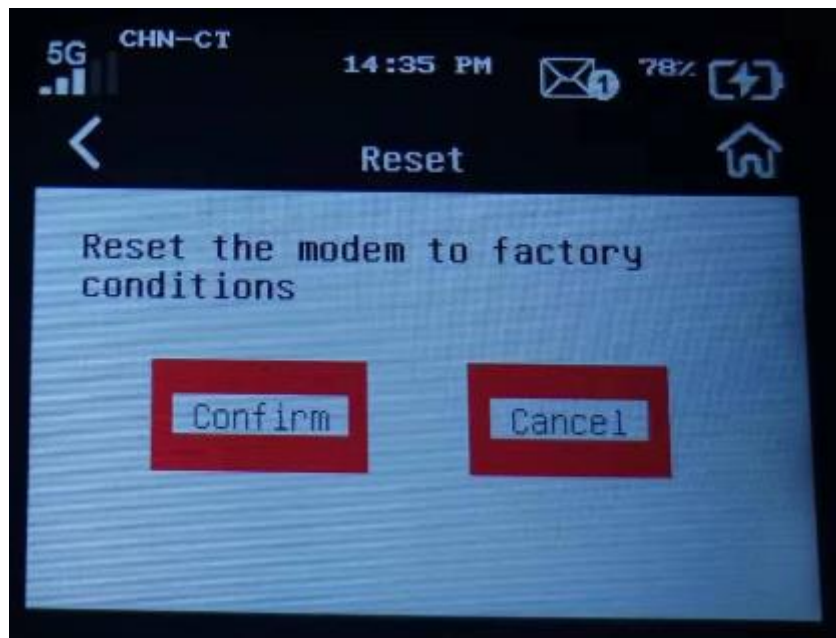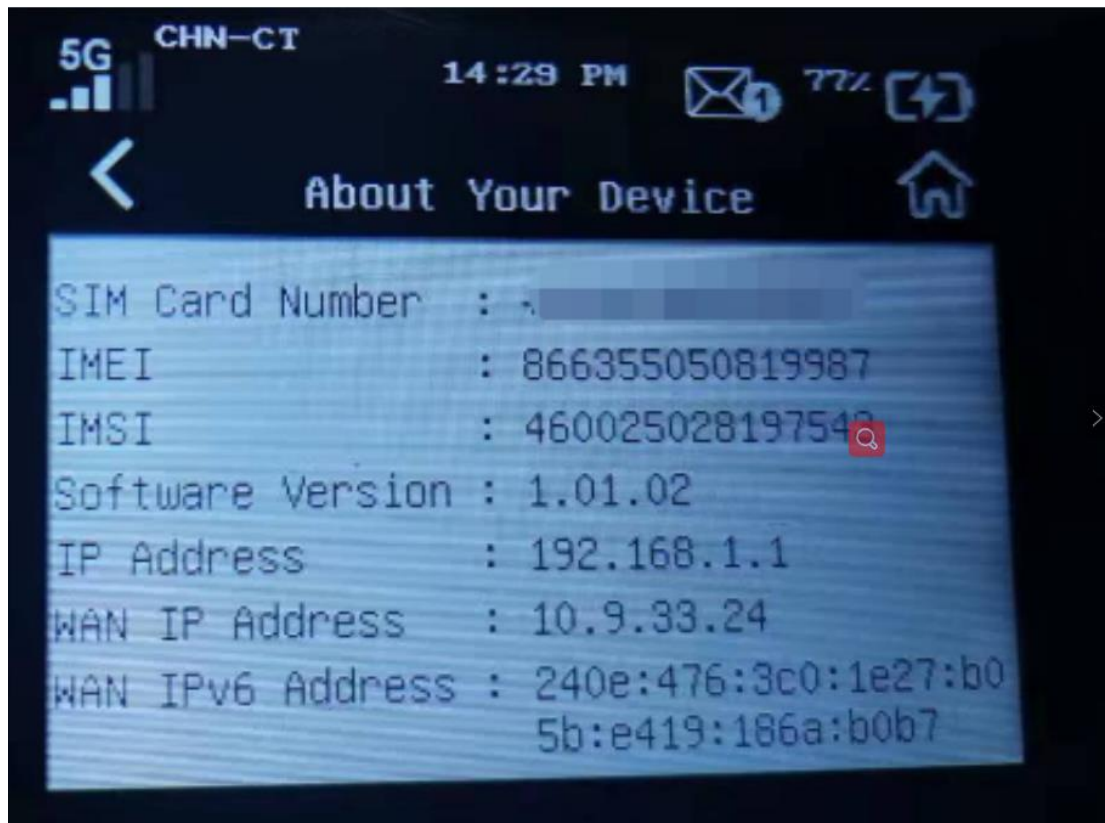
This chapter provides solutions to problems that can occur during the installation and operation of the MH500C MiFi. Read the following descriptions if you are having problems.

1. Why can't I access the web-based configuration utility?

- When entering the IP address of your router (192.168.1.1 for example), you are not connecting to a website on the Internet or have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
  -- Internet Explorer 9 or higher, Chrome 28.0, Firefox 23.0, or Safari 6.

- If attempting to connect wirelessly, ensure that the wireless icon on the LCD display is showing. Also, ensure that you are connected to the correct SSID for your mobile router.

- Make sure that the computer you are using is not connected to any other devices (such as routers or switches) which might have the same IP address as the MH500C MiFi, as this may cause an IP address conflict. If you have a conflict, temporarily unplug any other devices from your computer while you configure the MH500C MiFi. You can also change the IP address of the MH500C MiFi in the Network section of the configuration utility. You may also need to renew your computer's IP address configuration. To do this, start the Command utility: Click on **Start** > **Run**. In the run box type cmd and click OK. (Windows Vista users type *cmd* in the Start Search box.) This will bring up a black screen with white text. At the command prompt,

type **ipconfig /release** and wait for the process to be completed. Next, type **ipconfig /renew** which will renew your computer's IP address configuration.

2. **What can I do if I forgot my password?**

If you forgot your password, you must reset your router. Please note that this process will change all your settings back to the factory defaults. To reset the router, open the battery cover and using a paper clip, press and hold this button for 6 seconds to reboot the unit. The 5G POCKET WIFI will restore the factory default settings. Replace the battery and turn the power on before you attempt to reconnect to it. The default IP address is **192.168.1.1**, and the default username is **admin** and the password is **admin**.

3. **Why can't my wireless client detect the 5 GHz network?**

Due to changing regional wireless regulations, your older 5 GHz wireless client may have trouble detecting and connecting to the 5G POCKET WIFI's 5 GHz wireless network using its default settings. For Taiwan region, this product defaults to band 1 (5.150-5.250 GHz), channels (36, 40, 44, and 48) operation. You may enable band 4 (5.725-5.825 GHz) channels (149, 153, 157, 161, or 165) by navigating to the Wi-Fi Settings section of the web-based configuration utility described earlier in this document and selecting a band 4 channel.