

ZTE MF91

4G Mobile Hotspot

User Manual

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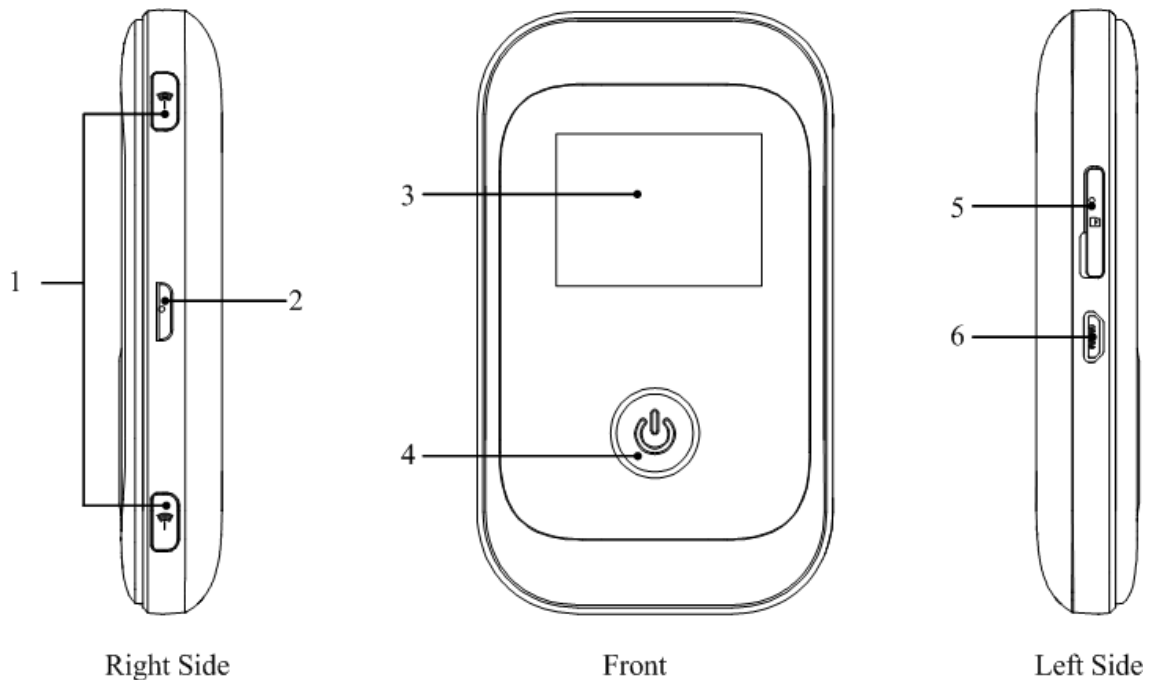
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1. Getting Started

ZTE MF91 is a 4G mobile hotspot device, working in GSM/GPRS/EDGE/WCDMA/HSPA/HSPA+ /LTE network. The client devices can connect to the device via USB or Wi-Fi interface; the device supports data services, enabling you to communicate anytime and anywhere.

1.1 Device Appearance


The following figure shows the appearance of the device. It is only for your reference. The actual device may be different.



| | |
|-----------------------------------|---|
| 1. External Antenna Connector | <ul style="list-style-type: none"> ◆ It is used to connect an external antenna to enhance the signal strength. |
| 2.WPS | <ul style="list-style-type: none"> ◆ This button is used to start/end Wi-Fi Protected Setup authentication process and enable/disable the Wi-Fi function. ◆ Hold it for 3 seconds to activate the WPS function. ◆ When the WPS function is available, press it to deactivate the WPS function. ◆ Press it to enable/disable Wi-Fi function. |
| 3. OLED Screen | <ul style="list-style-type: none"> ◆ It indicates the network type, signal strength, battery, Wi-Fi, etc. |
| 4.Power | <ul style="list-style-type: none"> ◆ Hold the Power button to switch on/off the device. |
| 5.Memory card slot (microSD card) | <ul style="list-style-type: none"> ◆ It is where you insert the memory card (microSD card). |
| 6.Charger/USB port | <ul style="list-style-type: none"> ◆ Charge your device. ◆ Connect the client to your device via USB cable. |










Notes:

-  is a trademark of SD Card Association.
- Please use the original external antenna if necessary.

1.2 Indicators

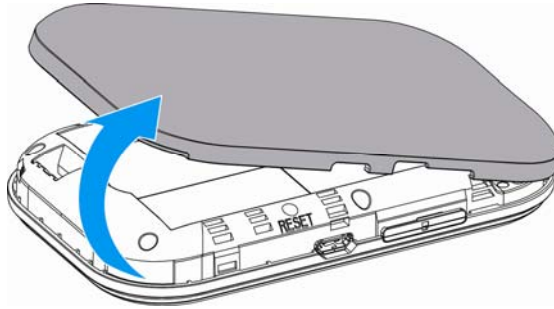
When the device is powered on, the following icons will appear on the OLED screen, with the corresponding indications listed in the table below:

| Icon | Indication |
|---|--|
|  | Network signal strength. |
|  | Network type. 2G, 3G or 4G icon will appear on the OLED screen according to the connected network. |
|  | Roaming network indication. |
|  | Connect to the Internet automatically. |
|  | Connect to the Internet manually. |
|  | Wi-Fi status and number of the connected users. |
|  | Battery power indication. |

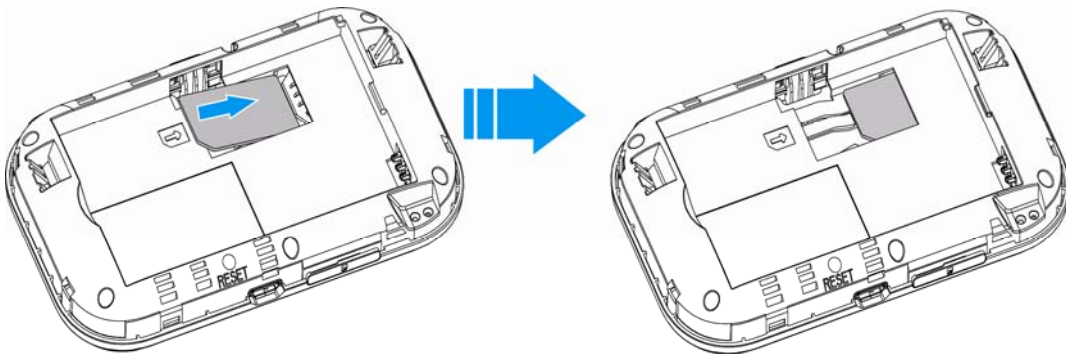
1.3 Hardware Installation

3.2.1 Inserting SIM Card and Battery

1. Use the thumb catch at the bottom of the device to open the battery cover.



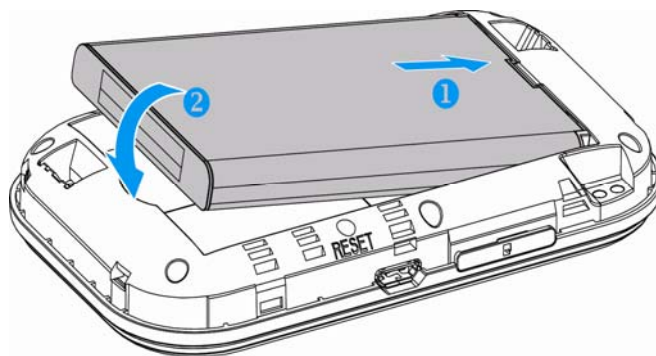
2. Insert SIM Card into the slot.



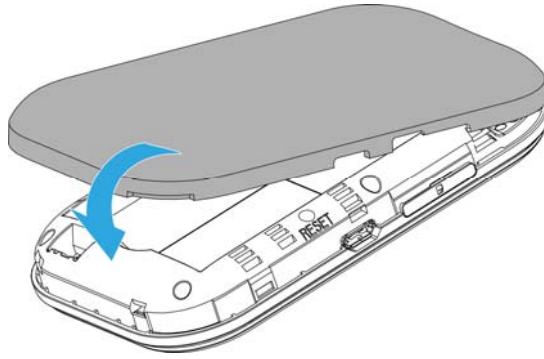
 **Warning:**

Please power off the device and remove the external power adapter before removing or inserting the SIM card, if not, the device or SIM card may be damaged.

3. Insert the battery as shown with the contacts located against the gold springs.



4. Line the battery cover up correctly and press gently to close the cover.



3.2.2 Inserting microSD Card

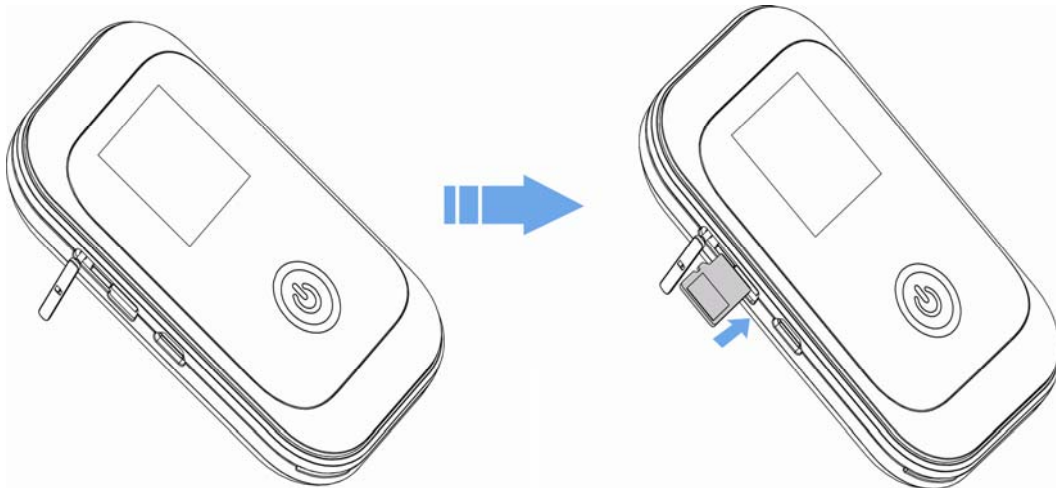
1. Pull the microSD cover out of the card slot.



Notes:

Do not pull the cover rudely, as it is connected with the device.

2. Insert the microSD card into the microSD slot. The following picture shows the correct inserting direction. You will hear a click when the microSD card locks in place.



3. Close the microSD cover.

3.2.3 Switching On/Off Your Device

Press and hold the **Power** button to switch on/off the device.



Notes:

- Please install battery before power on.
- The device is powered on when the OLED Screen lights up.

3.2.4 Charging Your Device



Notes:

- Charge at least 4 hours to ensure a full initial charge.
 - Charging is only possible within a temperature range of 0°C to 45°C.
 - You can charge your device by using USB cable or adapter.
1. Insert the charger lead carefully with the plug arrow facing the left side of the device.
 2. The plug only fits one way. Do not use excessive force to insert the plug.
 3. Check the plug is the right way round and lined up correctly then insert it gently.




1.4 microSD Card

Using microSD Card

1. Insert the microSD card into the device.
2. Connect the device with PC or laptop via provided USB cable, and the system will display it as a removable disk.
3. Use it freely.

Uninstall microSD Card

1. Left click the icon  in the Windows system tray bar. Then a menu will popup and indicate the USB devices list as below:

Safely remove USB Mass Storage Device - Drive(H:)

2. Select **Safely remove the USB disk** which is relevant to the device.
3. Remove the device directly.

1.5 About SIM Card

Avoid handling the SIM card unnecessarily. Hold the card by the edges to prevent static damage. Keep the SIM card away from electrical and magnetic appliances.

If you cannot get service, make sure that:

- You are in an area which has network coverage.
- You are using the correct SIM card.

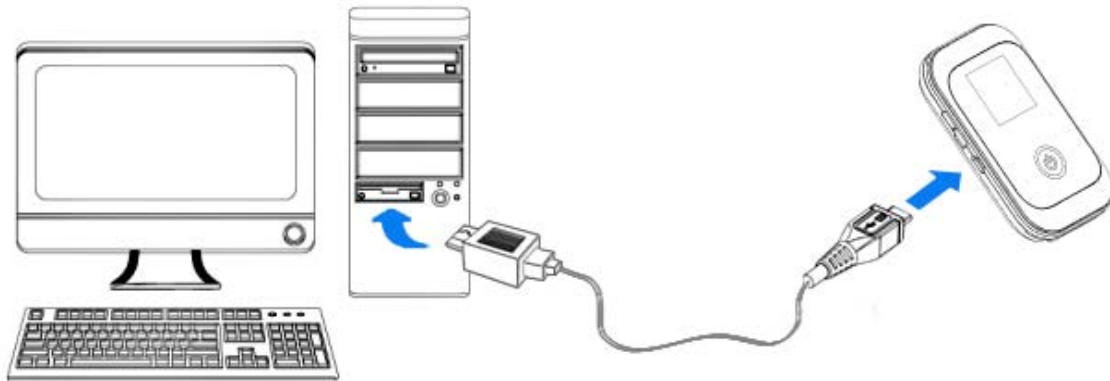
2. Working Mode

Use the USB cable to connect your PC or laptop which cannot provide wireless network function, and connect other laptops with device via Wi-Fi, so all of them can surf on the Internet at the same time.

Your device supports three working modes: USB mode, Wi-Fi mode, and Mixed mode. For the client, we only use PC or laptop as the example in this document.

2.1 USB Mode

Connect the device to your PC or laptop via the included USB cable, then power on your device. And the following picture is one application example:



Installing Software

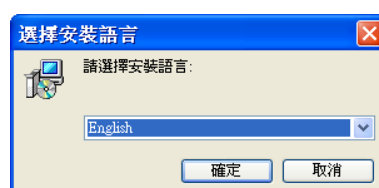
When you connect your device to PC or laptop for the first time, the system will automatically detect and recognize the new hardware and display the new icon in the desktop status bar, indicating that the PC or laptop and the USB device have been connected properly. After a few seconds, there will show the following installation interface if the laptop and desktop PC supports automatic installation.



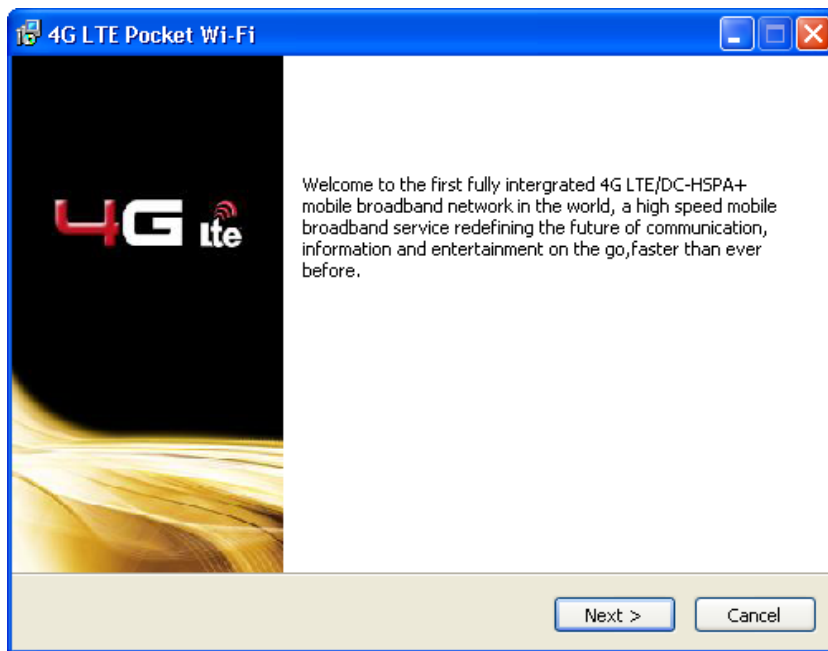
Notes:

If the system does not launch installation automatically, you can run the installation program in path of **My Computer > 4G Pocket Wi-Fi > Autorun.exe**.

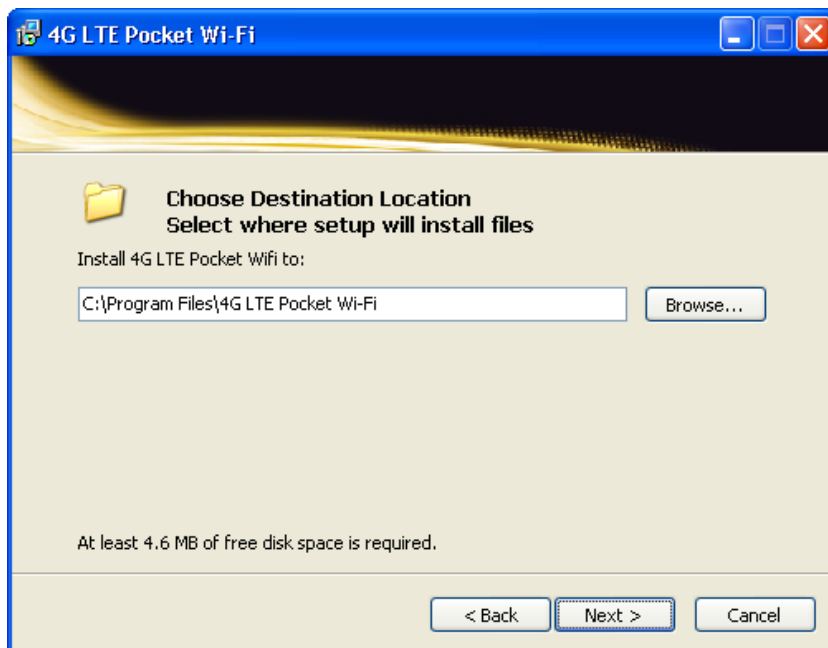
The following installation interface will show how to start installation. And the first screen you see as following:



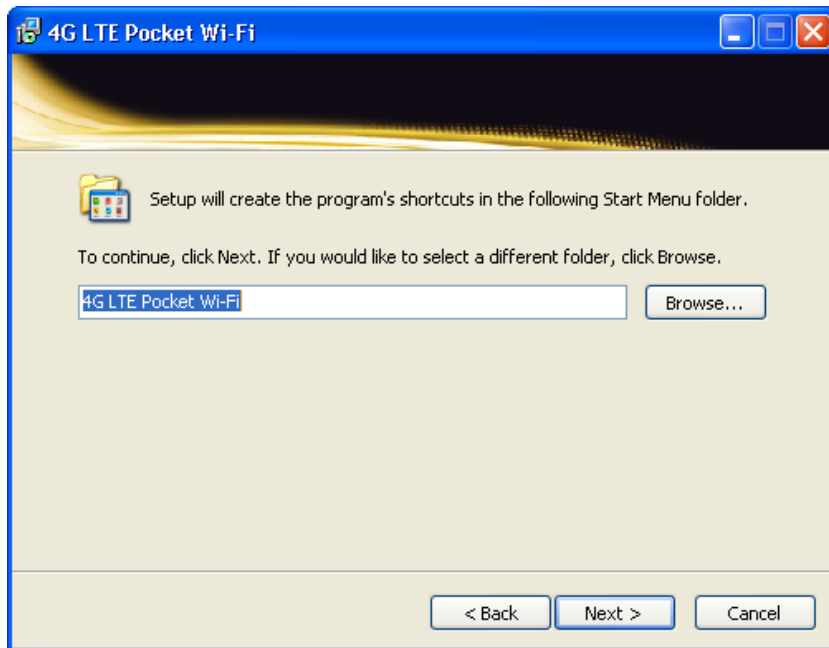
Select Language for the software, and then click OK.



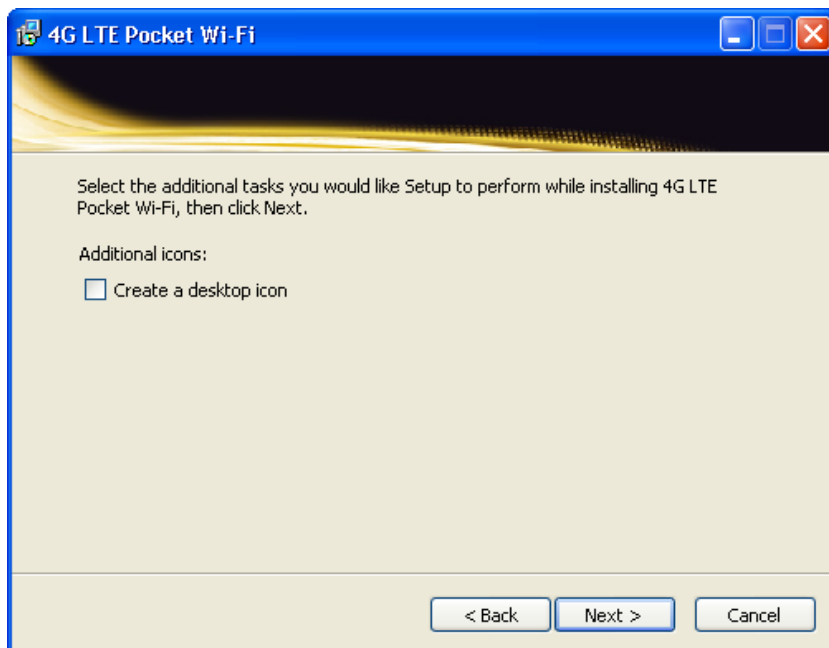
Strongly recommend you to exit other Windows programs, and click **Next**.



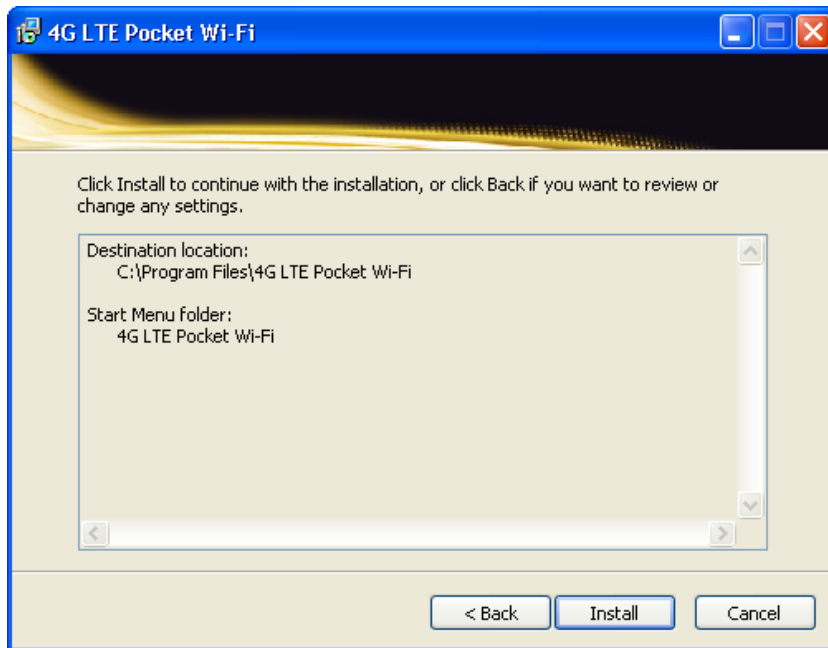
Select the folder that you want to install the software, and you can select a different path by pressing **Browse**, and then click **Next**.



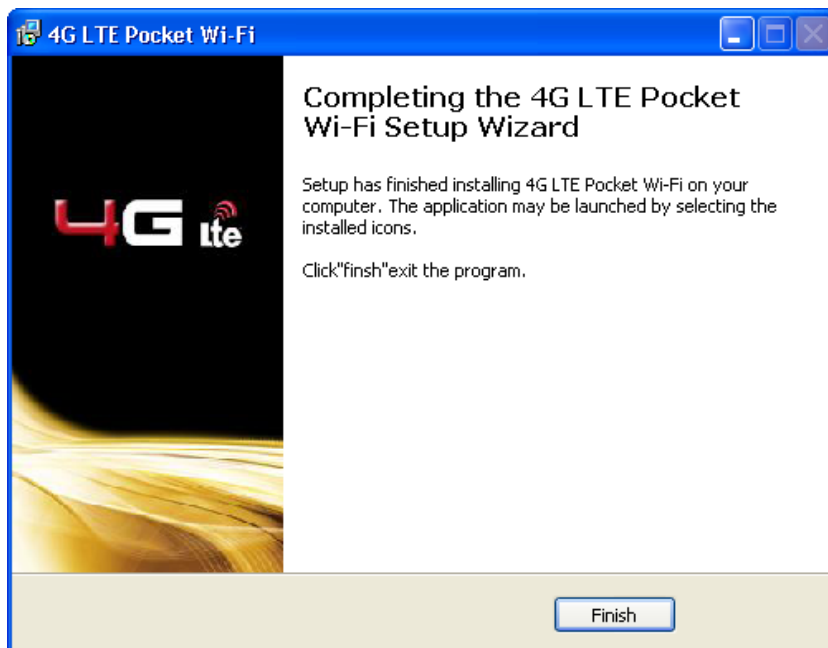
Select a different folder or the default folder to place the program's shortcuts, and then click **Next**.



Select any other tasks then click **Next**.



Click **Install**.

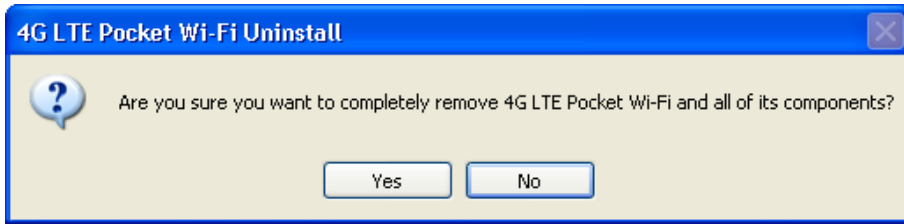


Click **Finish** to complete the installation.

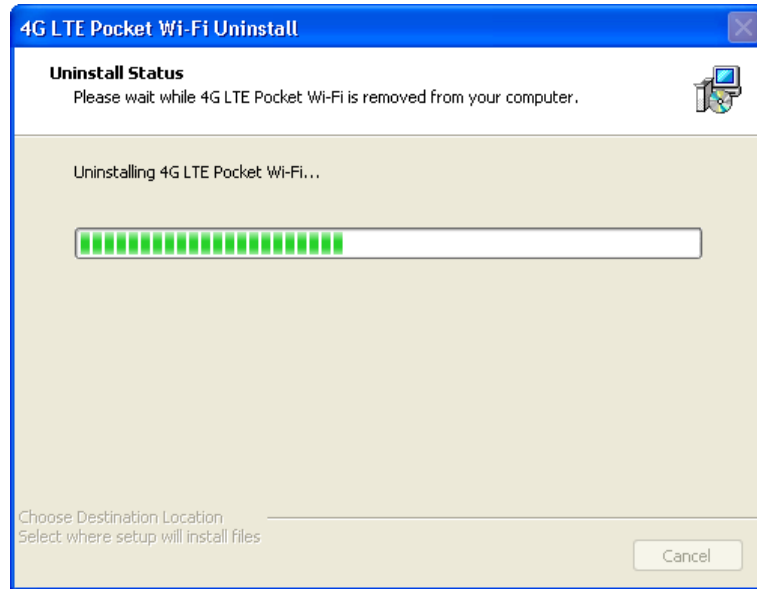
After the installation, select **Start > Programs** and there will be a **4G LTE Pocket Wi-Fi** program group, which includes MF91 Web UI and **Uninstall 4G LTE Pocket Wi-Fi**.

Uninstalling Software

Select **Start > Programs > 4G LTE Pocket Wi-Fi > Uninstall 4G LTE Pocket Wi-Fi** menu on the laptop or desktop PC.



Click **Yes** to confirm uninstalling the software. Then the system begins to uninstall programs, and this interface will indicate the progress of uninstall.



Click **OK** to complete the application software uninstall.

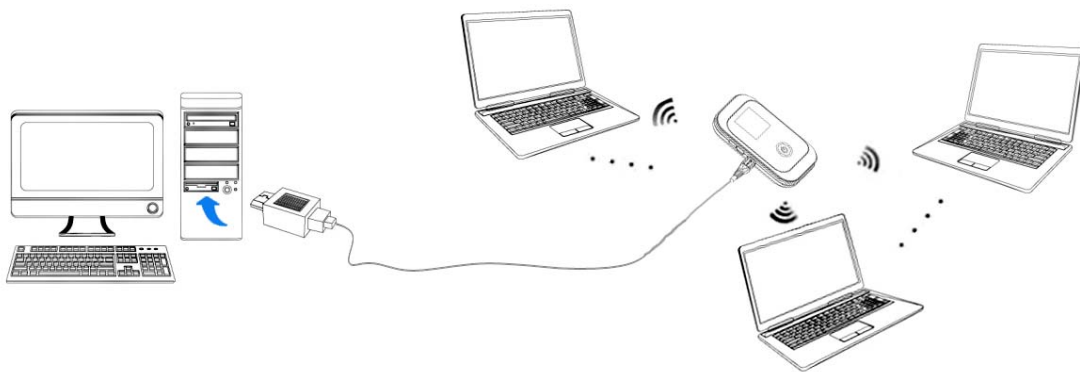
2.2 Wi-Fi Mode

Power on directly, and then connect the device to your PC or laptop via Wi-Fi. And the following picture is one application example:



2.3 Mixed Mode

Use the both connection methods to connect your PC or laptop. And the following picture is one application example:



3.Operation and Function

3.1 Preparation

Before using the data service, make sure:

- SIM card is inserted.
- All OLED indicators are working normally.

3.2 Establish a connection between your device and the client

3.2.1 Via USB Cable

1. Connect your device and the client with the USB cable.
2. Power on your device.
3. Install software.

After the installation, the connection between your device and the client will be established successfully a moment later.

3.2.2 Via Wi-Fi

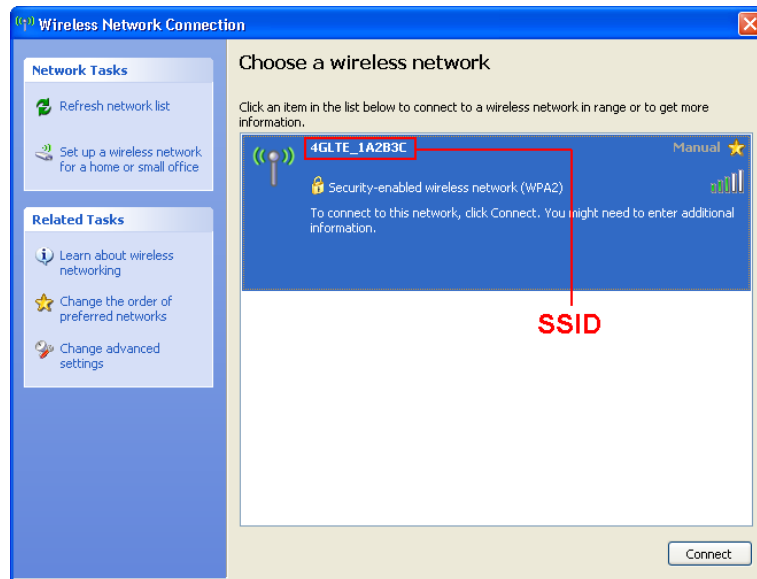
1. Power on your device directly. It will take 1~2 minutes to initialize, and then Wi-Fi OLED icon will be indicated on the LED screen of your device.
2. Use your normal Wi-Fi application on the client to search the available wireless network.



Notes:

You need to check your Wireless Network Connection. Set the client to obtain an IP address automatically in the Internet protocol (TCP/IP) properties, and the client will get an IP address like "192.168.0.101".

3. Select the SSID of your device, and then click **Connect**. The following figure is only for your reference.



NOTE Notes:

There will be a pop-up window to require the password. Please check the label on the battery compartment of your device to gain the SSID and preset password information.

4. Wait a moment, the connection between your device and the client will be established successfully.

3.3 Access the Internet

1. Switch on the device.
2. Establish a connection between your device and the client.
3. After successfully establishing the connection, access the Internet in the **Always On** mode.

NOTE Notes:

You can browse the WebGUI Configuration page and click **Dial Settings** to set the WAN connection mode.

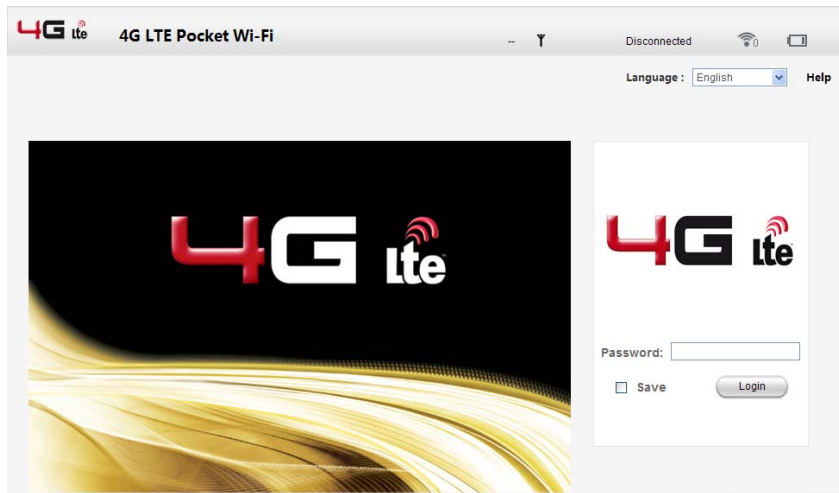
3.4 Access the WebGUI Configuration Page

1. Make sure the connection between your device and the client is correct.
2. Launch the internet browser and enter <http://192.168.0.1> or <http://4glte.home> in the address bar.

NOTE Notes:

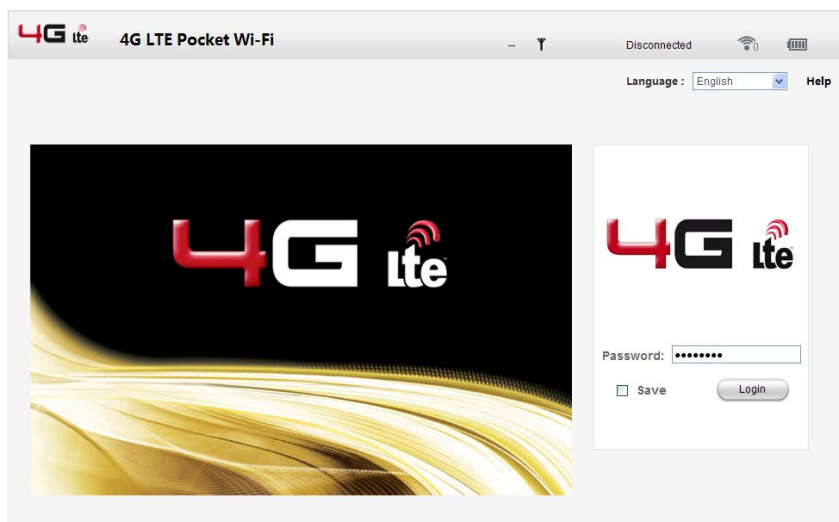
It is recommended that you use IE (7.0 or later), Firefox (1.0 or later), Opera (6.0 or later), Safari (3.0 or later), Chrome (6.0 or later).

3. The login page appears as follows.



3.5 Login

In the WebGUI Configuration page, select the desired language and input the password (the default Password is **password**).



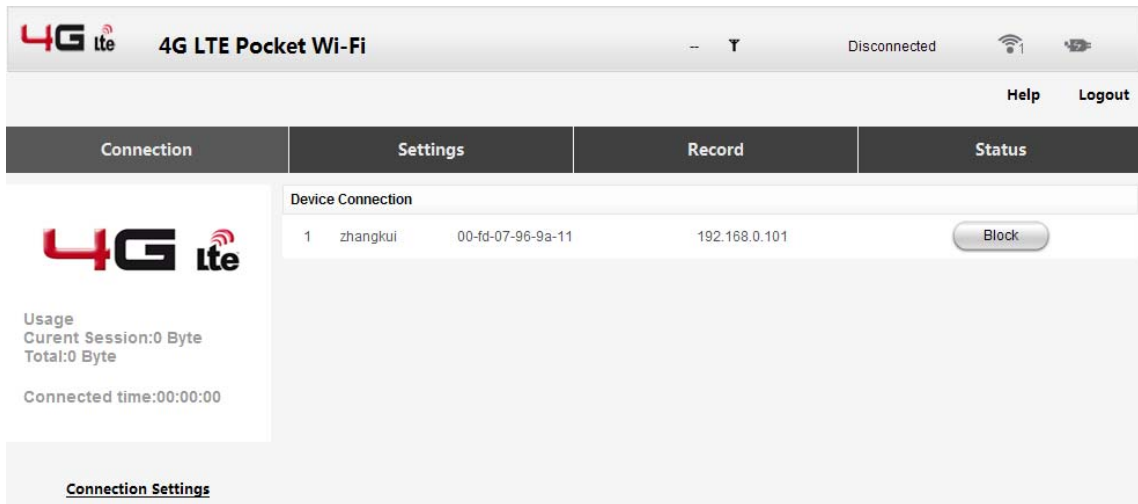
Click **Login** to log in the WebGUI.



Notes:

If you check **Save** after type in password, the device will save it. Next time when you want to login the WebGUI with the same password, what you need to do is to click **Login**.

When you login, the following interface appears.



The whole interface is divided into three parts. Related functions can be executed by operation in the related areas.

- **Index area:** Show the configuration list for your device.
- **Data connection status area:** Show the usage and the connected time.
- **Device Connection Area:** Show the information which connected to the device..

| | |
|-------------------|---|
| Battery indicator | : Shows the battery level, 4 stages from none to high . |
| Signal strength | : Shows the network signal intensity, 5 stages from none to strong . |
| Internet Status | Connected or Disconnected |
| Network Operator | Shows your network operator. |
| Wi-Fi Status | : Wi-Fi status and number of the connected users. And the maximum number is 10. |

3.6 Settings

Do not modify any settings unless instructed by your service provider.

3.6.1 Quick Setup

1. In the main interface click **Settings > Quick Setup**.
2. Read the guide carefully, and then click **Next**.



3. Set **APN** in the following figure:

1 2.APN Setting 3 4 5 6

Profile Name 4G LTE

Profile Selection : Select the profile of Access Point.

Notes:
•If the network is LTE mode currently, please reboot the device after setting default APN.

Back Next

Select an APN string.

4. Set **PPP Authentication** in the following figure:

1 2 3.PPP 4 5 6

Authentication : NONE

•NONE:No Authentication
•CHAP:Password Authentication Protocol
•PAP:Challenge Handshake Authentication Protocol
•CHAP/PAP:CHAP and PAP Hybrid Authentication

PPP User Name

PPP Password

Back Next

5. Set **SSID Configuration** in the following figure:

1 2 3 4.SSID 5 6

SSID 4GLTE_1A2B3C

•Name SSID(Service Set Identifier): Enter a character string up to 32 characters as the name for your wireless local area network (WLAN).

SSID Broadcast Enabled

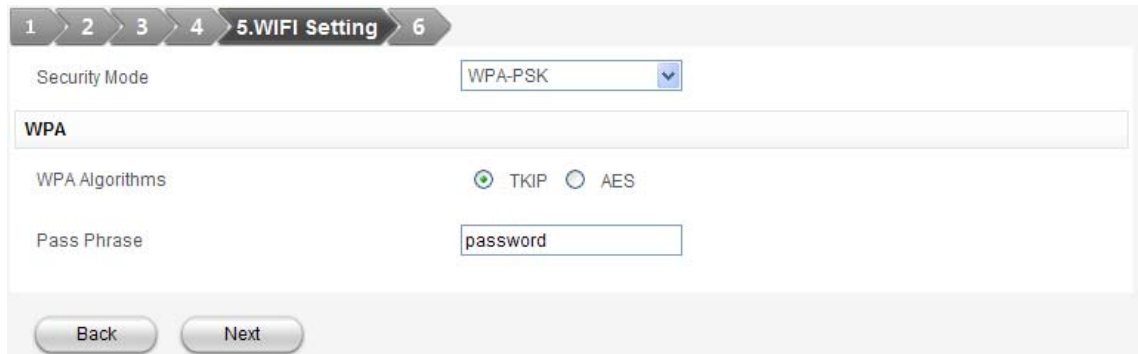
•Enabled: The gateway broadcasts the SSID and other devices can detect and connect to it.
•Disabled: The gateway disables broadcasting and hides the name of your network.

Back Next

Service Set Identifier (SSID) is used to uniquely identify your WLAN. If you enable **SSID Broadcast**,

the gateway will broadcast the SSID, and other devices can detect and connect to it.

5. Set **Wi-Fi Setting** in the following figure:



1 2 3 4 5.WIFI Setting 6

Security Mode WPA-PSK

WPA

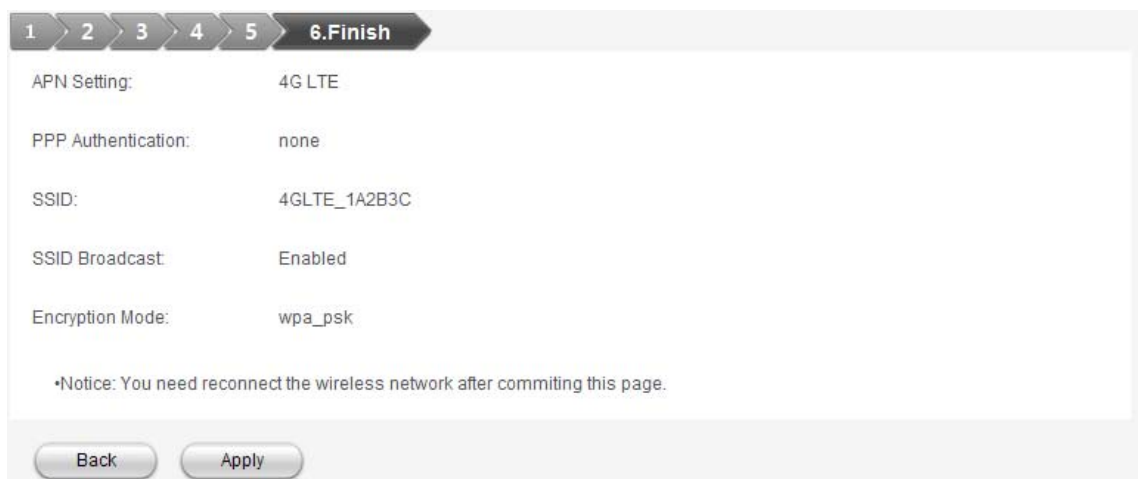
WPA Algorithms TKIP AES

Pass Phrase password

Back Next

Security Mode will keep your traffic from being unauthorized monitored and accessed, select one **Security Mode** from the list, and then set key or algorithm for it.

6. Show the Configuration in the following figure:



1 2 3 4 5 6.Finish

APN Setting: 4G LTE

PPP Authentication: none

SSID: 4GLTE_1A2B3C

SSID Broadcast: Enabled

Encryption Mode: wpa_psk

*Notice: You need reconnect the wireless network after committing this page.

Back Apply

Make sure that all the parameters shown in the figure are correct, and then click **Apply**.

3.6.2 DHCP Settings

Select **Settings > DHCP Settings**, the DHCP information is shown in the following figure:

| LAN Interface Setup | |
|--------------------------------------|---|
| IP Address | <input type="text" value="192.168.0.1"/> |
| Subnet Mask | <input type="text" value="255.255.255.0"/> |
| MAC Address | 00-de-ad-be-ef-00 |
| DHCP Type | <input type="button" value="Enable"/> |
| DHCP IP Pool | <input type="text" value="192.168.0.100"/> - <input type="text" value="192.168.0.200"/> |
| DHCP Lease Time | <input type="text" value="24"/> hour(s) |
| <input type="button" value="Apply"/> | |

The following items are displayed on this page:

- **IP Address:** IP address for LAN interface.
- **Subnet Mask:** Subnet mask for the IP address.
- **MAC Address:** MAC address for the LAN interface.
- **DHCP Type:** Enable or disable DHCP Server function.
- **DHCP IP Pool:** Allocate begin and end IP address for IP pool.
- **DHCP Lease Time:** Define how long the leased IP address will be expired, and will relocate new IP address.

Click **Apply** to confirm your configuration.

3.6.3 Dial Settings

Select **Settings > Dial Settings** to View the WAN connection mode or select the network.

| WAN Connection Mode | |
|--------------------------------------|---|
| <input checked="" type="radio"/> | Always On |
| Network Select | |
| <input checked="" type="radio"/> | Automatic <input type="button" value="4G LTE Preferred"/> |
| <input type="radio"/> | Manual <input type="button" value="Search"/> |
| <input type="button" value="Apply"/> | |



Notes:

If you select **3G Only** or **2G Only**, you can change the **WAN Connection Mode**.

3.6.4 APN Settings

Select **Settings > APN Settings**, the APN parameters are shown in the following figure:

- Click **Set default** to set current profile as the default profile.
- Click **Edit** to edit some parameters of the exist profile.
- Click **Delete** to delete the selected profile.
- Click **Add** to access the following figure:

Enter the related parameters (details please see following table), and then click **Save** to add one new profile.

| Parameter | Function |
|---------------------|--|
| Profile Name | Type the profile name. |
| APN Name | Type the APN string. |
| APN | Password Authentication Protocol (PAP) provides a simple method without encryption |

| | |
|-----------------------|---|
| Authentication | for the peer to establish its identity using a 2-way handshake. Challenge-Handshake Authentication Protocol (CHAP) is used to periodically verify the identity of the peer using a 3-way handshake. |
| User Name | User name is used to obtain authentication from the ISP when the connection is established |
| Password | Password is used to obtain authentication from the ISP when the connection is established. |
| DNS | Set DNS mode. |

3.6.5 WiFi Settings

Basic

Select **Settings** > **Wi-Fi Settings** > **Basic**, the wireless network basic parameters are shown in the following figure:

The screenshot shows the 'WiFi Setting--Basic' configuration window. It contains the following settings:

- Sleep Time:** 10 Minutes (dropdown menu)
- Physical Mode:** 11b/g/n (dropdown menu)
- SSID:** 4GLTE_1A2B3C (text input field)
- Broadcast SSID:** Enable Disable
- AP Isolation:** Enable Disable
- Country Code:** Hong Kong (dropdown menu)
- Frequency (Channel):** Auto Select (dropdown menu)
- MAX Station Number:** 5 (dropdown menu)

At the bottom of the window, there are two buttons: 'Apply' and 'Cancel'.

The following items are displayed on this page:

- **Sleep Time:** Set a time limit (in seconds) for the device to enter sleep mode in case of client inactivity.
- **Physical Mode:** If all of the wireless devices connect with this device in the same transmission mode, performance will be improved by choosing the appropriate wireless mode.
- **Network Name (SSID):** Service Set Identifier (SSID). Enter a string less than 32 characters as the name for your Wireless Local Area Network (WLAN).
- **Broadcast Network Name (SSID):** Disable or Enable (Default) this function. If **Enable** is selected, the

device broadcasts the SSID, and other devices can search and connect to it. When you select **Disable**, other devices can not search out the SSID. If you want someone to connect, you need to tell them the SSID, and let them setup manually.

- **AP Isolation:** When **Enabled** is selected, each of your wireless clients will not be able to communicate with each other.
- **Country Code:** Choose the right country code.

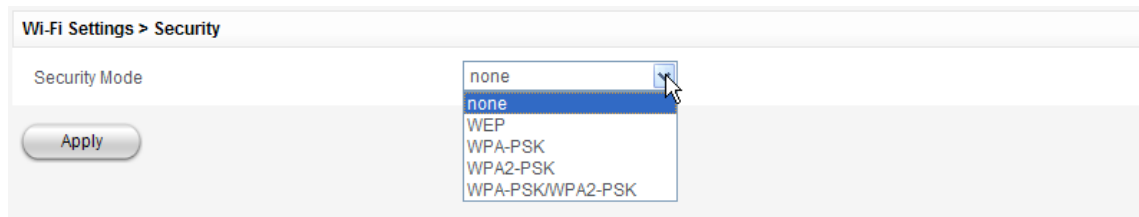
Limited by local law regulations, version for North America does not have region selection option.

- **Frequency (Channel):** Choose the appropriate channel to optimize the performance of your wireless network.
- **Max Station Number:** Choose the maximum number of the stations which connect the AP simultaneously.

Click **Apply** to confirm your configuration.

Security

Select **Settings > Wi-Fi Settings > Security**, the Security parameters are shown in the following figure:



- **Security Mode:** Select the security method and then configure the required parameters.
 - ◆ **none:** Open-system authentication accepts any client attempting to connect the device without verifying its identity.
 - ◆ **Security mode-WEP**

| Wi-Fi Settings > Security | | | |
|-----------------------------------|-------------|------------|-----|
| Security Mode | WEP | | |
| Authentication Mode | OPEN | | |
| Encrypt Type | WEP-40 | | |
| Wire Equivalence Protection (WEP) | | | |
| Default Key | Key 1 | | |
| WEP Keys | WEP Key 1 : | 1234567890 | Hex |
| | WEP Key 2 : | 1234567890 | Hex |
| | WEP Key 3 : | 1234567890 | Hex |
| | WEP Key 4 : | 1234567890 | Hex |
| Apply | | | |

The following items are displayed in this section on this page:

• **Authentication Mode:** Select authentication mode: **OPEN** or **Shared**.

➤ **OPEN:** Open-system authentication accepts any client attempting to connect the device without verifying its identity.

➤ **SHARED:** The shared-key security uses a WEP key to authenticate clients connecting to the network and for data encryption

• **Encrypt Type:** Selects the data encryption type to use.

• **Default Key:** Selects the WEP key number to use for authentication or data encryption.

• **WEP Keys 1~4:** Sets WEP key values. The user must first select ASCII or hexadecimal keys. Each WEP key has an index number. Enter key values that match the key type and length settings.

◆ **Security Mode – WPA-PSK, WPA2-PSK and WPA-PSK/WPA2-PSK**

| Wi-Fi Settings > Security | |
|---------------------------|---|
| Security Mode | WPA-PSK |
| WPA | |
| WPA Algorithms | <input checked="" type="radio"/> TKIP <input type="radio"/> AES |
| Pass Phrase | password |
| Apply | |

Wi-Fi Settings > Security

Security Mode: WPA-PSK/WPA2-PSK

WPA

WPA Algorithms: Auto

Pass Phrase: password

Apply

The following items are displayed in this section on this page:

- **WPA Algorithms:** Selects the data encryption type to use.
 - **TKIP:** Uses Temporal Key Integrity Protocol (TKIP) keys for encryption.
 - **AES:** Uses Advanced Encryption Standard (AES) keys for encryption.
 - **Auto:** Use the TKIP or AES keys for encryption automatically.
- **Phrase:** Enter the password manually.

WPS

Select **Settings > Wi-Fi Settings > WPS**, the WPS configuration is shown in the following figure:

WPS Setting

WPS Enable: Push Button

Apply

- **WPS Enable:** Choose the desired mode.
- **WPS PIN:** If this option is enabled, you need to enter a wireless client's PIN code in the field and keep the same code in the client.

Enter the client PIN.

- **WPS PBC: Push-Button Configuration**

1. Select the PBC mode in the client WPS UI;
2. Select PBC mode in the WPS page of the device and submit;
3. Once the WPS active... is displayed on the screen, please press the "next" button on the Client WPS UI. After a few seconds the client can access the WLAN, and the result will be shown in the Client WPS UI.

Click **Apply** to confirm your configuration.

3.6.6 Firewall

You may setup firewall rules to protect your network from virus, worm and malicious activity on the Internet.



Notes:

You can set the maximum 5 filtering items for **IP Port/MAC filtering**.

IP Port filtering

Select **Settings > Firewall > IP Port filtering**, the IP Port filtering is shown in the following figure:

Basic Settings

IP Port Filtering Disable

If you select **Enable**, the filter settings will appear:

Basic Settings

IP Port Filtering Enable

Default Policy -- The packet that match with any rules would be: Dropped

IP Port Filter Settings

Dest. IP Address (XXX.XXX.XXX.XXX, eg.192.168.1.1)

Subnet Mask

Protocol NONE

The maximum rule count is -5.

Current MAC filtering rules in system:

| No. | Dest. IP Address | Subnet Mask | Protocol | Source Port Range | Dest. Port Range | Policy | Delete |
|-----|------------------|-------------|----------|-------------------|------------------|--------|--------|
|-----|------------------|-------------|----------|-------------------|------------------|--------|--------|

- **Default Policy:** Set how to handle the packet if any of the rules matches.
- **Dest. IP Address:** Set the destination IP address that will be filtered.
- **Subnet mask:** The mask identifies the host address.
- **Protocol:** Specifies the destination port type.



Notes:

Filtering rules are matched one by one, if met this provision, it will not continue to match the rules listed below.

Click **Apply** to confirm your configuration.

Click **Delete** to delete the rule which you selected.

Click **Reset** to clear what you select or input.

MAC filtering

Select **Settings > Firewall > MAC filtering**, the MAC filtering is shown in the following figure:

The screenshot shows the 'MAC Filter Settings' configuration page. It includes a 'Default Policy' dropdown menu set to 'Dropped', a 'MAC address' input field with a placeholder '(XX-XX-XX-XX-XX-XX, eg:00-1E-90-FF-FF-FF)', and two buttons: 'Apply' and 'Reset'. Below this is a table titled 'Current MAC filtering rules in system:' with columns for 'No.', 'MAC address', 'Policy', and 'Delete'. There are also 'Delete' and 'Reset' buttons at the bottom of the table area.

- **Default Policy:** Set how to handle the packet if any of the rules matches.

- **MAC address:** Specifies the MAC address to block or allow traffic from.

Click **Apply** to confirm your configuration.

Click **Delete** to delete the rule which you selected.

Click **Reset** to clear what you select or input.

firewall forwarding

You can setup virtual servers to provide services on the Internet. Select **Settings > Firewall > firewall Forwarding**, the virtual server settings are shown in the following figure:

The screenshot shows the 'Port forwarding' configuration page. It features a 'Virtual Server Settings' dropdown menu currently set to 'Disable' and an 'Apply' button below it.

If you select **Enable**, the Virtual Server Settings will appear:

Port forwarding

Virtual Server Settings

IP Address : (XXX.XXX.XXX.XXX:XX, eg:192.168.1.1:50)

Port (1~65535)

Protocol

The maximum rule count is 10.

Current Virtual Servers in system:

| No. | IP Address | Port | Protocol | Delete |
|--|------------|------|----------|--------|
| <input type="button" value="Delete"/> <input type="button" value="Reset"/> | | | | |

- **IP Address:** Set IP address for the virtual server.
- **Port:** Set port numbers for the virtual server.
- **Protocol:** Set protocol for the virtual server.

Click **Delete Selected** to delete the rule which you selected.

Click **Reset** to clear what you select or input.

DMZ Settings

Select **Settings > Firewall > DMZ Settings** to enable a specified host PC on the local network to access the Internet without any firewall protection.

DMZ Setting

IP Address

Click **Add** to select the DMZ IP address which connects to the device.

System Security

You can configure system firewall to protect the device from being attacked. Select **Settings > Firewall > System Security**, the system security setting is shown in the following figure:

System Security

Ping from WAN Filter Deny Allow

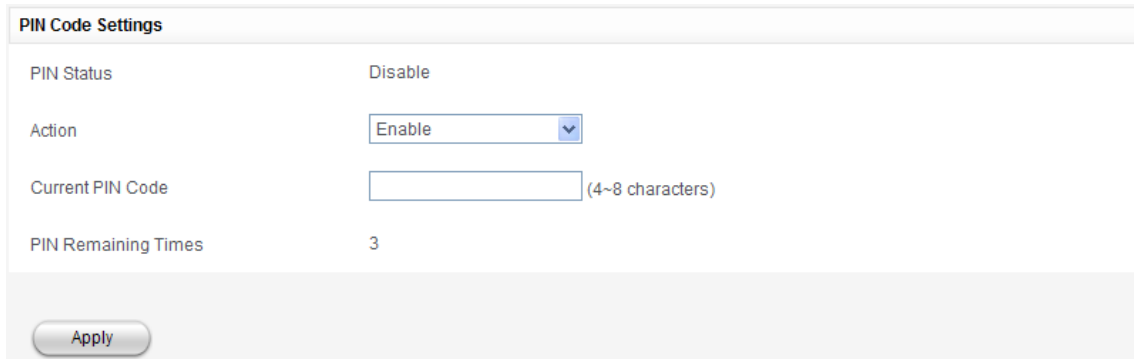
Visit Web Server from WAN Deny Allow

Allow or **Deny** ping from WAN filter function and visit Web Server from WAN on requirement, and then click **Apply**.

3.6.7 System Security

PIN Setting

Select **Settings > System Security > PIN Settings**, the PIN Settings parameters are shown in the following figure:

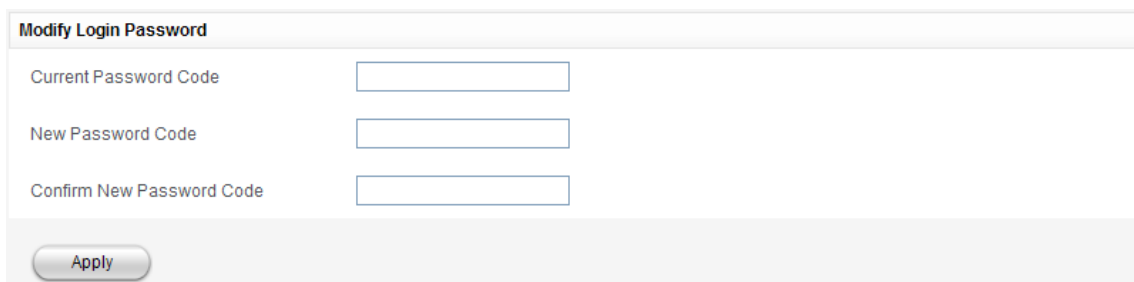


- **PIN Status:** Show the current PIN status.
- **Action:** Select an operation: Enable, Disable or Modify.
- **Current PIN Code:** Type the PIN code.

Click **Apply** to confirm your configuration.

Password

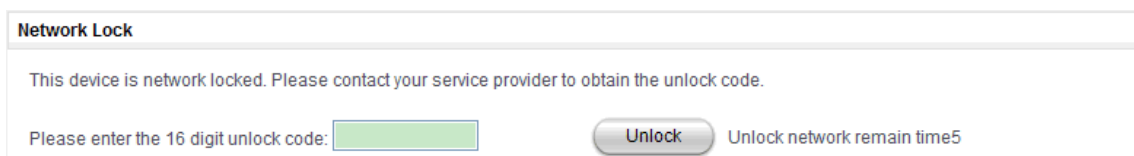
Select **Settings > System Security > Password**, the **Modify Login Password** information is shown in the following figure:



You can change the login password. Click **Apply** to confirm your configuration.

Network Lock

Select **Settings > System Security > Network Lock** to unlock the network.



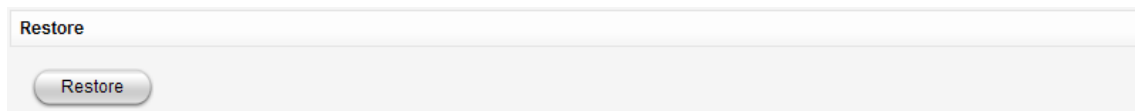


Notes:

Please contact your service provider to obtain the network unlock code.

Restore

Select **Settings > System Security > Restore**, click **Restore** to set all the settings to their factory default values, and then the device will restart automatically.



3.7 Record

Select **Record** to view the device received and sent data statistics.

| | Time | Received Data | Send Data | Total |
|-----------|-----------|---------------|-----------|----------|
| Last Time | 0 seconds | 0 Bytes | 49.03 KB | 49.03 KB |
| Total | 0 seconds | 0 Bytes | 49.03 KB | 49.03 KB |

*Notes:Data record is approximate. It is just for reference only!

[Clear All](#)

Click **Clear All** to clear data connection records.

3.8 Status

Basic Status

Select **Status > Basic Status** to view the basic status, the basic status information is shown in the following figure:

| Device Info | |
|---|---|
| ● Manufacturer Homepage:www.zte.com | ● Manufacturer:ZTE |
| ● uFi Type:MF91 | ● Software Version:BD_MF91_CSL_V1.0.0B04_1206 |
| ● IMEI:101111234567890 | ● Hardware Version:MF91_100001 |
| ● System Up Time:1 hour, 11 mins, 53 secs | |
| SIM Card Info: | |
| ● SIM Card Status:SIM_READY | |

Net Status

Select **Status > Net Status** to view the net status, the net status information is shown in the following figure:

| Internet Information: | |
|----------------------------|-------------------------------|
| ● Default APN: | ● Default Profile Name:4G LTE |
| Network Information: | |
| ● Signal Strenth:-50 dBm | ● IP Adress:0.0.0.0 |
| ● Station Operator:-- | ● Adscription Operator:CMCC |
| ● Primary DNS:0.0.0.0 | ● Secondary DNS:0.0.0.0 |
| ● Cell ID:3GPP 5054 | ● LAC:WCDMA 37333 |
| Net Status: | |
| ● Wifi Mode:11b/g/n | ● Gateway Address:192.168.0.1 |
| ● SSID:4GLTE_1A2B3C | ● Subnet Mask:255.255.255.0 |
| ● Channel:Channel 0 | ● DHCP Server:Enable |
| ● Security Policy:WPA2-PSK | |

4.Usage of WPS

If your client device supports WPS, you need not to input the password manually after WPS has been available. Please refer to the following steps:

1. Start up your device.
2. Launch the client device connected to your device.
3. Enable the WPS function of your device.
4. Enable the WPS function of the client.



Notes:

[For the detailed operations about the client, please refer to the client's instruction.](#)

5. Logout

Select **Logout** to logout the web page.

6. Disconnecting from the Internet

Turn off the device can terminate Internet connection.

7. Sleep Mode

After powering your device on without USB connection, once no user connects to the device within a certain time you have set in the Wi-Fi Settings (default 10minutes) and no action is performed to the device, or the WPS button is pressed manually, the device will enter the sleeping mode with all the OLEDs off. In the sleeping mode, the Wi-Fi function will be disabled.

8.Warning and Notice

8.1 To the Owner

- Some electronic devices are susceptible to electromagnetic interference sent by device if inadequately shielded, such as the electronic system of vehicles. Please consult the manufacturer of the device before using the device if necessary.
- Operating of laptop and desktop PCs and the device may interfere with medical devices like hearing aids and pacemakers. Please always keep them more than 20 centimeters away from such medical devices when they are turned on. Turn the device off if necessary. Consult a physician or the manufacturer of the medical device before using the device.
- Be aware of the usage limitation when using a device at places such as oil warehouses or chemical factories, where there are explosive gases or explosive products being processed. Turn off your device if required.
- The use of electronic transmitting devices is forbidden in aircrafts, at petrol stations and in hospitals. Please observe and obey all warning signs and switch off your device in these conditions.
- Do not touch the inner antenna area if not necessary. Otherwise it will affect your device's performance.
- Store the device out of the reach of little children. The device may cause injury if used as a toy.
- Do not touch the metallic parts of the device so as to avoid a burn, when the device is working.

8.2 Using Your Device

- Please use original accessories or accessories that are authorized. Using any unauthorized accessories may affect your device's performance, and violate related national regulations about telecom terminals.
- Avoid using the device near or inside metallic structures or establishments that can emit electromagnetic waves. Otherwise it may influence signal reception.
- The device is not waterproof. Please keep it dry and store in a shady and cool place.
- Do not use the device immediately after a sudden temperature change. In such case, it will produce dew inside and outside the device, so don't use it until it becomes dry.
- Handle the device carefully. Do not drop, bend or strike it. Otherwise the device will be damaged.
- No dismantling by non-professionals and only qualified technicians can undertake repair work.
- Operating temperature range of 0°C ~ +35°C and humidity range of 5% ~ 95% are recommended.
- Please always keep them more than 10mm away from body when there are turned on.

8.3 Using Battery

- Do not short-circuit the battery, as this can cause excessive heat and fire.
- Do not store battery in hot areas or dispose of it in a fire to avoid explosion.
- Do not disassemble or modify the battery.
- When not using the battery for a long period, remove it from the device and store it in a cool dry place.
- Never use any charger or battery damaged or worn out.
- Return the wear-out battery to the provider or put it in the appointed recycle place. Do not put it in familial rubbish.



Warning:

If the battery is broken, keep away from content. If it taints your skin, wash your skin with abundant fresh water and ask doctor for help if necessary.

8.4 Limited Warranty

- This warranty does not apply to defects or errors in the Product caused by:
 - i. Reasonable abrasion.
 - ii. End User's failure to follow ZTE's installation, operation or maintenance instructions or procedures.
 - iii. End User's mishandling, misuse, negligence, or improper installation, disassembly, storage, servicing or operation of the Product.
 - iv. Modifications or repairs not made by ZTE or a ZTE-certified individual.
 - v. Power failures, surges, fire, flood, accidents, actions of third parties or other events outside ZTE's reasonable control.
 - vi. Usage of third-party products, or usage in conjunction with third-party products provided that such defects are due to the combined usage.
 - vii. Any other cause beyond the range of normal usage intended for the Product.

End User shall have no right to reject or return the Product, or receive a refund for the Product from ZTE under the above-mentioned situations.

- This warranty is End User's sole remedy and ZTE's sole liability for defective or nonconforming items, and is in lieu of all other warranties, expressed, implied or statutory, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, unless otherwise required under the mandatory provisions of the law.

8.5 Limitation of Liability

ZTE shall not be liable for any loss of profits or indirect, special, incidental or consequential damages resulting from or arising out of or in connection with using of this product, whether or not ZTE had been advised, knew or should have known of the possibility of such damages, including, but not limited to lost profits, interruption of business, cost of capital, cost of substitute facilities or product, or any downtime cost.

8.6 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.

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.

NONE PART 15B/PART 15C is as below

FCC Compliance

This device complies with part 15 of the FCC Rules. 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.

8.7 Radio Frequency (RF) Energy

This model phone meets the government's requirements for exposure to radio waves.

This phone 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 mobile phones 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 phone 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 phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power 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 phone as reported to the FCC when worn on the body, as described in this user guide, is 1.04 W/kg (Body-worn measurements differ among phone models, depending upon available enhancements and FCC requirements.)

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

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

FCC ID: Q78-ZTEMF91

For body worn operation, this phone 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 1 cm 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 phone at the ear, position the handset a minimum of 1 cm from your body when the phone is switched on.

8.8 Disposal of Your Old Appliance



When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC.





All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local

authorities.

The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.

For this product's recycling information based on WEEE directive, please send an e-mail to weee@zte.com.cn

9.Troubleshooting

| Problem | Suggested Solution |
|---|---|
| Can not establish the USB connection between your device and PC | 1. You need install the software. Run the installation program in path of My Computer > 4G Pocket Wi-Fi . |
| | 2. If the driver of your device is abnormal, please uninstall the software on your PC first and reinstall it again. |
| Can not establish the Wi-Fi connection between your device and client | 1. Make sure Wi-Fi function is active. Press the WPS button to enable  or disable  Wi-Fi function. |
| | 2. Refresh Wi-Fi network list and select the correct SSID. |
| | 3. Check the IP address to make sure your client can obtain an IP address automatically in the Internet protocol (TCP/IP) properties. |
| | 4 Type the correct network key (Wi-Fi password) when you connect to the device. |
| The client connected to the device can not access the Internet | 1 Make sure your SIM card is available. |
| | 2 Change the location to find a place with good signal. |
| | 3 Check WAN Connection mode setting. |
| | 4 Contact with your service provider and confirm your APN settings. |
| Can not visit the webGUI configuration page | 1. Enter the correct address. The default address is http://192.168.0.1 or http://4glte.home |
| | 2. Only use one network adapter in your PC. |
| | 3. Do not use any proxy server. |
| About the password | 1. For the Wi-Fi connection password, please check the label on the battery compartment of your device. |
| | 2. For the webGUI configuration page password, the default password is password . |
| | 3. If you changed the password, and forgot the new password. You need to restore the device to the factory default settings. |

For more assistance, please:

- Sending E-mail to **mobile@zte.com.cn**
- Visiting **<http://www.zte.com.cn>**
- Calling Service Hotline: **+86-755-26779999**

10. Technical Parameters

| | |
|-----------------------|---|
| Data Service | LTE FDD: DL 100 Mb/s UL 50 Mb/s |
| | HSPA+: DL 42 Mbps, UL 5.76 Mbps |
| | WCDMA CS: 64 kbps UL/DL WCDMA PS: 384 kbps UL/DL |
| Interface | USB and Wi-Fi |
| Wi-Fi Standard | 802.11 b/g/n(1*1 11n features) |
| Wi-Fi Security | WEP/WPA/WPA2 |
| USB Version | USB 2.0 HIGH SPEED |
| USB Interface Type | Micro USB |
| Weight | 105 g |
| Dimensions (W×H×D): | 100 mm x 58 mm x 16 mm |
| microSD card | Support up to 32 GB microSD card |
| Battery | 2300 mAh |
| *Standby time | 150 hours |
| *Working time | 4 hours |
| Operate system | Windows 7, Windows Vista(32bit or 64bit), Windows XP (SP2 or later), MAC (10.4 or later) |
| Web Browser | IE (7.0 or later), Firefox (3.0 or later), Opera (10.0 or later), Safari (4.0 or later), Chrome (10.0 or later) |
| Operating temperature | 0°C ~ +40°C |
| Storage temperature | -20°C ~ +50°C |
| Charging temperature | 0°C ~ +45°C |
| Humidity | 5%~ 95% |



Notes:

The device's standby and working time are based on ideal working environment.

11. Glossary

- AC: Alternating Current
- APN: Access Point Name
- DC: Direct Current
- DHCP: Dynamic Host Control Protocol
- DNS: Domain Name System (or Service or Server)
- EDGE: Enhanced Data GSM Evolution
- Ethernet: A frame-based computer networking technology for local area networks (LANs)
- GSM: Global System for Mobile Communications
- GPRS: General Packet Radio Service
- HSDPA: High Speed Downlink Packet Access
- HSUPA: High Speed Uplink Packet Access
- IP: Internet Protocol
- LAN: Local Area Network
- LED: Light - Emitting Diode
- MHz: Megahertz
- PDP: Packet Data Protocol
- PIN: Personal Identification Number
- PPP: Point to Point Protocol
- PUK: PIN Unlocking Key
- UPNP: Universal Plug and Play
- SIM: (UMTS) Subscriber Identification Module
- WCDMA: Wideband CDMA (Code-Division Multiple Access)
- WEP: Wired Equivalent Privacy
- Wi-Fi: Wireless Fidelity
- WLAN: Wireless LAN
- WPA-PSK: Wi-Fi Protected Access-PreShared Key