

B681 Quick Start

Note:

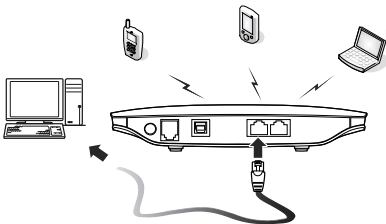
- Figures in this guide are only for your reference. For details about the particular model you have chosen, contact your service provider.
- Check the information about the product and its accessories when you purchase it. Some accessories are not provided in the product package. If necessary, contact your local dealer to purchase them.
- This guide briefly describes the device functions. For details about how to set the management parameters, see the help information on the web management page.

1 Getting to Know Your Device

Application Scenarios

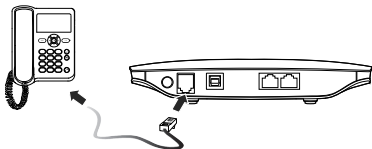
Scenario 1:

You can connect your computer to the device to access the Internet. The specific connection steps depend on your computer's operating system. Follow the displayed instructions to connect the device to your computer.

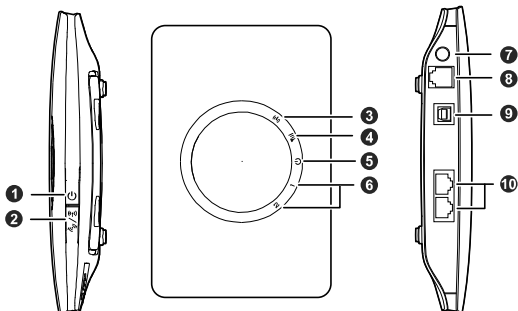


Scenario 2:

You can connect a telephone to the device's telephone port to make voice calls.







Appearance



1. Power button
2. Wi-Fi/WPS button
3. Wi-Fi/WPS indicator
4. Network status indicator
5. Power indicator

6. LAN indicators
7. External antenna port
8. Telephone port
9. Power port
10. LAN ports

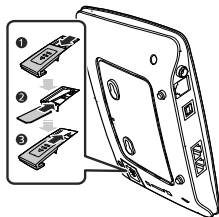
Indicators

Indicator	Status
 Wi-Fi/WPS indicator	<ul style="list-style-type: none"> ● Steady on: Wi-Fi turned on or data transfer in progress. ● Blinking: WPS connection being set up. ● Off: Wi-Fi turned off.
 Network status indicator	<ul style="list-style-type: none"> ● Blinking red fast: Subscriber Identity Module (SIM) card unavailable (SIM card not installed or malfunctioning, or PIN code not verified). ● Steady yellow: device registered with the network. ● Steady green: device connected to the Internet. ● Off: no signal received.
 Power indicator	<ul style="list-style-type: none"> ● Steady on: device powered on. ● Off: device powered off.
 LAN indicators	<ul style="list-style-type: none"> ● Steady on: Ethernet cable connected. ● Blinking: data transfer in progress. ● Off: Ethernet cable not connected.

2 Installation

Installing the SIM Card

- Step 1** Slide the card cover off.
- Step 2** Insert the SIM card into the card slot. Ensure that the gold contact area faces down and that the beveled edge of the SIM card aligns with that of the card slot.
- Step 3** Slide the card cover back onto the device.



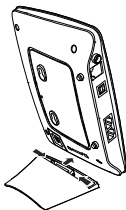
⚠Attention:

Before removing the SIM card, ensure that the device is powered off and disconnected from the power outlet.

(Optional) Using the Table Stand

You can place the device on a flat surface such as a table or a desk, or hang it on a wall. You can also use the table stand on the device to place it upright.

To use the table stand, insert its latches into the device's table stand slots, as shown in the following figure.

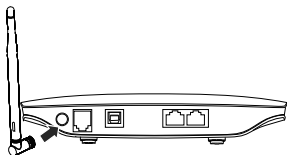


📄Note:

- To ensure good signal reception, place the device in a high place or near a window.
- To prevent interference caused by radio signals, place the device at least 1 meter (3.28 feet) away from other electrical devices.

(Optional) Installing an External Antenna

In areas with poor network coverage, connect an external antenna to the device's external antenna port. Screw the external antenna in fully, as shown in the following figure.

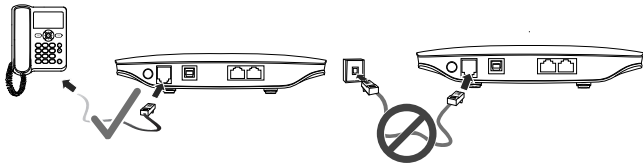


Note:

- Skip this section if you do not need to connect an external antenna to the device.
- Before using an external antenna, log in to the web management page (<http://192.168.1.1>) and set antenna mode to external. For details, see the help information on the web management page.
- Only use the external antenna indoors.
- You cannot switch between the internal antenna and the external antenna while using a voice or data service.

(Optional) Connecting to a Telephone

If you want to use the device to make voice calls, connect the device to a telephone, as shown in the following figure.

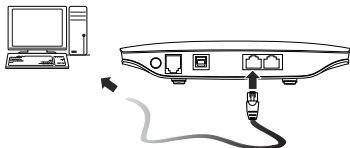


Note:

- Skip this section if you do not plan to use the device's voice services.
- Radio signals can interfere with telephone call connection and quality. To eliminate the risk of possible interference, place the telephone at least 1 meter (3.28 feet) away from the device.
- Do not connect the device to the telephone wall outlet (or any Public Switched Telephone Network), which will cause excessive heat or even damage the device.

Connecting to a Computer

Use an Ethernet cable to connect a computer to one of the device's LAN ports, as shown in the following figure.

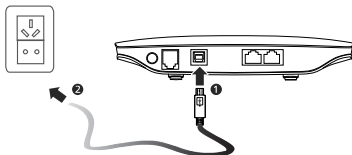


When the connection between the device and the computer is set up, the device's corresponding LAN indicator turns on.

Ensure that the Ethernet cable is no longer than 100 meters (328 feet).

Connecting to a Power Outlet

Connect a compatible power adapter to the device's power port, and then plug the power adapter into a power outlet.





Note:

Using an incompatible power adapter may damage the device.

3 Powering the Device On or Off





After connecting to a power outlet, the device will power on automatically.

- To manually power the device off, press and hold  until all indicators turn off.
- To manually power the device on, press and hold  until all indicators turn on.

4 Setting Up a Wireless Connection

Turning the Device's Wi-Fi On

By default, the device's Wi-Fi automatically turns on when the device is powered on.


- To manually turn Wi-Fi off, press and hold  for 2 seconds, and then release your finger.  turns off.
- To manually turn Wi-Fi on, press and hold  until  turns steady on.

Setting Up a Wi-Fi Connection

Note:

Before setting up a Wi-Fi connection, ensure that a wireless network adapter has been installed on your computer. If the wireless network adapter is functioning correctly, you will be able to find a wireless network connection in your computer's connection manager application.

Method 1: Set up a Wi-Fi connection.

- Step 1** Ensure that  is steady on.
- Step 2** Scan for available wireless network connections using your computer's connection manager application.
- Step 3** Connect to the wireless network that has the same service set identification (SSID) as the device.




Note:

- If a security mechanism has been enabled for the wireless network connection, enter the correct Wi-Fi key.
- The SSID and the Wi-Fi key are printed on the device label.
- To protect your wireless network from unauthorized access, change the SSID and Wi-Fi key a regular intervals. For details, see the help information on the web management page.

Method 2: Set up a WPS connection.

If the client to which your device connects supports WPS, a Wi-Fi key is generated automatically. For details about the client's operations, see its user guide.

To set up a WPS connection:

- Step 1** Ensure that  is steady on.
- Step 2** Press and hold  until  blinks to activate the WPS connection on your device.
- Step 3** Activate the WPS connection on the client.

5 Using the Web Management Page

You can configure and manage the device settings using the web management page.

Step 1 Launch a web browser, and enter **http://192.168.1.1** in the address bar.

Step 2 Enter the password, and log in to the web management page. The default password is **admin**.

 **Note:**

- To protect your device, only one user can log in to the web management page at a time.
- To protect your account, change the password promptly. For details, see the help information on the web management page.

6 Accessing the Internet


After a connection between your device and the client is set up, you can access the Internet using the modes listed in the following table.

Select an appropriate mode according to your data service charging plan. For example, if you are charged according to the length of time you are connected to the Internet, it is recommended that you select manual mode. For details about your data service charging plan, contact your service provider.

Mode	Description
Auto	After being powered on, the device will automatically connect to the Internet. Once connected, the device will not automatically disconnect from the Internet.
Manual	Log in to the web management page, and then connect to or disconnect from the Internet as prompted.
On Demand	After being powered on, if there is data being transferred, the device will automatically connect to the Internet. If no data is transferred within a pre-defined period, the device will automatically disconnect from the Internet.

7 Restoring Factory Defaults

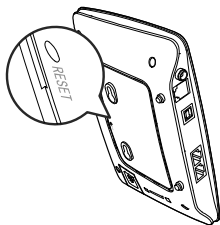
If you are uncertain of which settings you have configured or changed, you can restore the factory defaults that the device came with, and then reconfigure the device.

To restore the factory defaults, Use a sharp-pointed object to press and hold the RESET button until all indicators ( , **1** and **2**) blink.

After the factory defaults are restored, the device will restart automatically.

Attention:

Restoring factory defaults will delete all the device's user-defined settings and restore all settings on the web management page to their defaults.



8 Further Tips

If the device does not work properly:

- See the help information on the web management page.
- Restart the device.
- Restore the device to its factory defaults.
- Contact your service provider.

9 Safety Information

This section contains important information about the operation of your device. It also contains information about how to use the device safely. Read this information carefully before using your device.

Electronic Device

Do not use your device if using the device is prohibited. Do not use the device if doing so causes danger or interference with other electronic devices.

Interference with medical equipment

- Follow rules and regulations set forth by hospitals and health care facilities. Do not use your device where prohibited.
- Some wireless devices may affect the performance of hearing aids or pacemakers. Consult your service provider for more information.
- Pacemaker manufacturers recommend that a minimum distance of 15 cm be maintained between a device and a pacemaker to prevent potential interference with the pacemaker. If using a pacemaker, hold the device on the side opposite the pacemaker and do not carry the device in your front pocket.

Areas with flammables and explosives

- Do not use the device where flammables or explosives are stored (in a gas station, oil depot, or chemical plant, for example). Using your device in these environments increases the risk of explosion or fire. In addition, follow the instructions indicated in text or symbols.
- Do not store or transport the device in containers with flammable liquids, gases, or explosives.

Operating environment

- Avoid dusty, damp, or dirty environments. Avoid magnetic fields. Using the device in these environments may result in circuit malfunctions.
- Before connecting and disconnecting cables, stop using the device and disconnect it from the power supply. Ensure that your hands are dry during operation.
- Place the device on a stable surface.
- Keep the device away from electronic appliances that generate strong magnetic or electric fields, such as a microwave oven or refrigerator.
- During thunderstorms, power off your device and remove all cables connected to it to protect against lightning strikes.
- Do not use your device during thunderstorms to protect your device against any danger caused by lightning.
- Ideal operating temperatures are 0°C to 45°C. Ideal storage temperatures are -30°C to 60°C. Extreme heat or cold may damage your device or accessories.
- Keep the device and accessories in a well-ventilated and cool area away from direct sunlight. Do not enclose or cover your device with towels or other objects.

Do not place the device in a container with poor heat dissipation, such as a box or bag.

- To protect your device or accessories from fire or electrical shock hazards, avoid rain and moisture.
- Keep the device away from sources of heat and fire, such as a heater, microwave oven, stove, water heater, radiator, or candle.
- Do not place any object, such as a candle or a water container, on the device. If any foreign object or liquid enters the device, immediately stop using it, power it off, and remove all cables connected to it. Then, contact an authorized service center.
- Do not block device openings. Reserve a minimum of 10 cm around the device to dissipate heat.
- Stop using your device or applications for a while if the device is overheated. If skin is exposed to an overheated device for an extended period, low temperature burn symptoms, such as red spots and darker pigmentation, may occur.
- Do not touch the device's antenna. Otherwise, communication quality may be reduced.
- Do not allow children or pets to bite or suck the device or accessories. Doing so may result in damage or explosion.
- Observe local laws and regulations, and respect the privacy and legal rights of others.
- The device should be installed and operated with a minimum distance of 20 cm between the radiator and your body.
- Keep the device in a place with good reception. The distance between the device and other metal materials (such as metal brackets or metal doors and windows) should be greater than 25 cm and the distance between the device should be greater than 30 cm.

Child's safety

- Comply with all precautions with regard to child's safety. Letting children play with the device or its accessories may be dangerous. The device includes detachable parts that may present a choking hazard. Keep away from children.
- The device and its accessories are not intended for use by children. Children should only use the device with adult supervision.

Accessories

- Using an unapproved or incompatible power adapter, charger or battery may cause fire, explosion or other hazards.
- Choose only accessories approved for use with this model by the device manufacturer. The use of any other types of accessories may void the warranty, may violate local regulations and laws, and may be dangerous. Please contact your retailer for information about the availability of approved accessories in your area.

Power adapter safety

- The power plug is intended to serve as a disconnect device.
- For pluggable devices, the socket-outlet shall be installed near the devices and shall be easily accessible.
- Unplug the power adapter from electrical outlets and the device when not in use.
- Do not drop or cause an impact to the power adapter. If it is damaged, take it to an authorized service center for inspection.
- If the power cable is damaged (for example, the cord is exposed or broken), or the plug loosens, stop using it at once. Continued use may lead to electric shocks, short circuits, or fire.
- Do not touch the power cord with wet hands or pull the power cord to disconnect the power adapter.
- Do not touch the device or the power adapter with wet hands. Doing so may lead to short circuits, malfunctions, or electric shocks.
- If your power adapter has been exposed to water, other liquids, or excessive moisture, take it to an authorized service center for inspection.
- Ensure that the power adapter meets the requirements of Clause 2.5 in UL60950-1 and has been tested and approved according to national or local standards.

Cleaning and maintenance

- During storage, transportation, and operation of the device, keep it dry and protect it from collision.
- Keep the device and accessories dry. Do not attempt to dry it with an external heat source, such as a microwave oven or hair dryer.
- Do not expose your device or accessories to extreme heat or cold. These environments may interfere with proper function and may lead to fire or explosion.
- Avoid collision, which may lead to device malfunctions, overheating, fire, or explosion.
- If the device is not going to be used for an extended period of time, power it off, and remove all cables connected to it.
- If anything unusual occurs (for example, if the device emits smoke or any unusual sound or smell), immediately stop using it, power it off, remove all cables connected to it, and contact an authorized service center.
- Do not trample, pull, or excessively bend any cable. Doing so may damage the cable, causing the device to malfunction.
- Before you clean or maintain the device, stop using it, stop all applications, and disconnect all cables connected to it.
- Do not use any chemical detergent, powder, or other chemical agents (such as alcohol and benzene) to clean the device or accessories. These substances may cause damage to parts or present a fire hazard. Use a clean, soft, and dry cloth to clean the device and accessories.

- Do not place magnetic stripe cards, such as credit cards and phone cards, near the device for extended periods of time. Otherwise the magnetic stripe cards may be damaged.
- Do not dismantle or remanufacture the device and its accessories. This voids the warranty and releases the manufacturer from liability for damage. In case of damage, contact an authorized service center for assistance or repair.

Emergency calls

The availability of emergency calls is subject to your cellular network quality, service provider policy, and local laws and regulations. Never rely solely on your device for critical communications like medical emergencies.

FCC Regulatory Compliance

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.

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: Any changes or modifications to this device not expressly approved by Huawei Technologies Co., Ltd. for compliance could void the user's authority to operate the equipment.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.


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