

5G wireless data terminal instruction manual

5G CPE
Quick start

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1. Insert the card to access the Internet

1.1 Prepare a standard Nano SIM card



Figure 1 SIM card

1.2 Insert the Nano-Sim card following the diagram, and connect to the antenna.

Important: Avoid SIM card hot-swapping during operation.

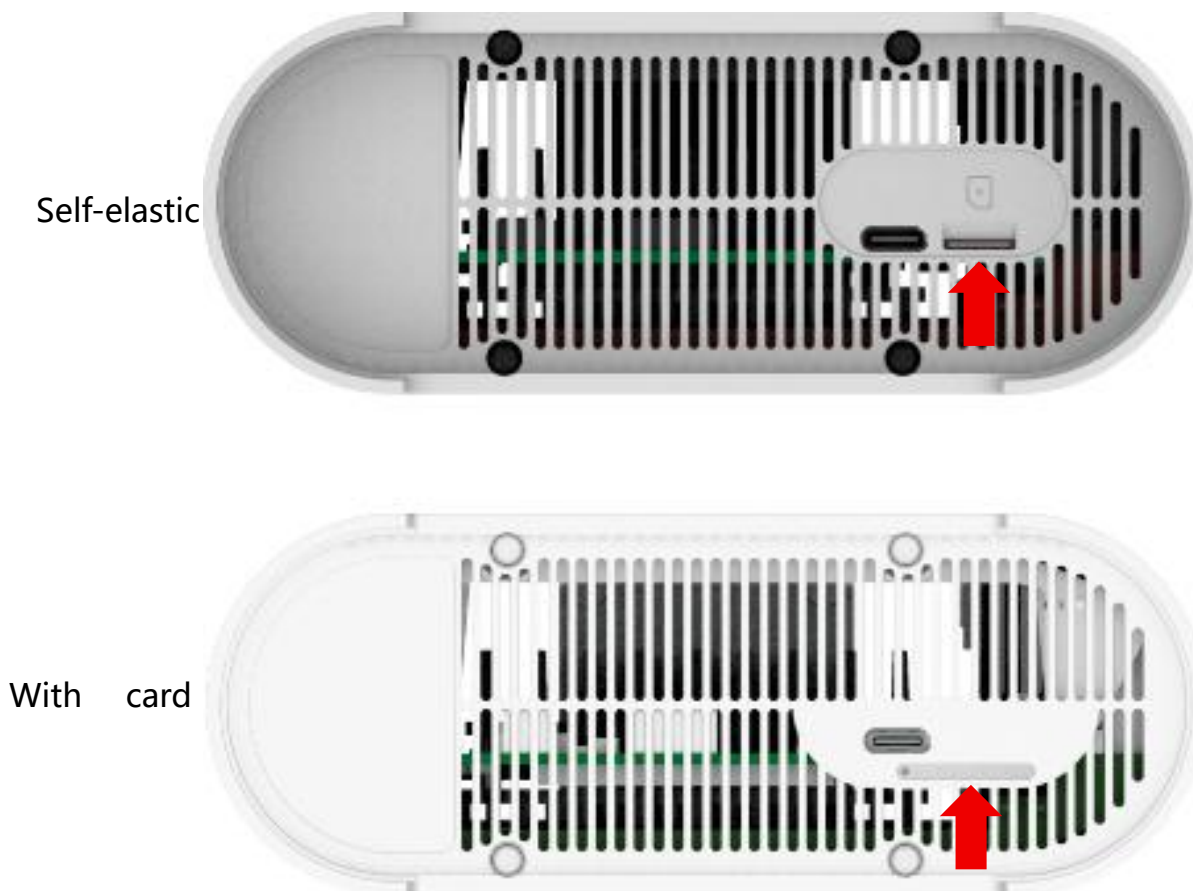


Figure 2 Demonstration diagram

1.3 Turn on the power and the module will automatically power on

The green light is always on after the CPE is powered on, and the WiFi indicator flashes when the wireless device is connected

1.4 Connect your Internet device

To connect, enable Wi-Fi on your phone or laptop, select the device's network name, and enter the password. For desktops, use a network cable for the LAN port..

1.5 WEB-UI interface

Open a browser, enter the device's gateway address (e.g., 192.168.0.1; see the device label for the actual address). Then, log in with the password "admin" to access the configuration interface.

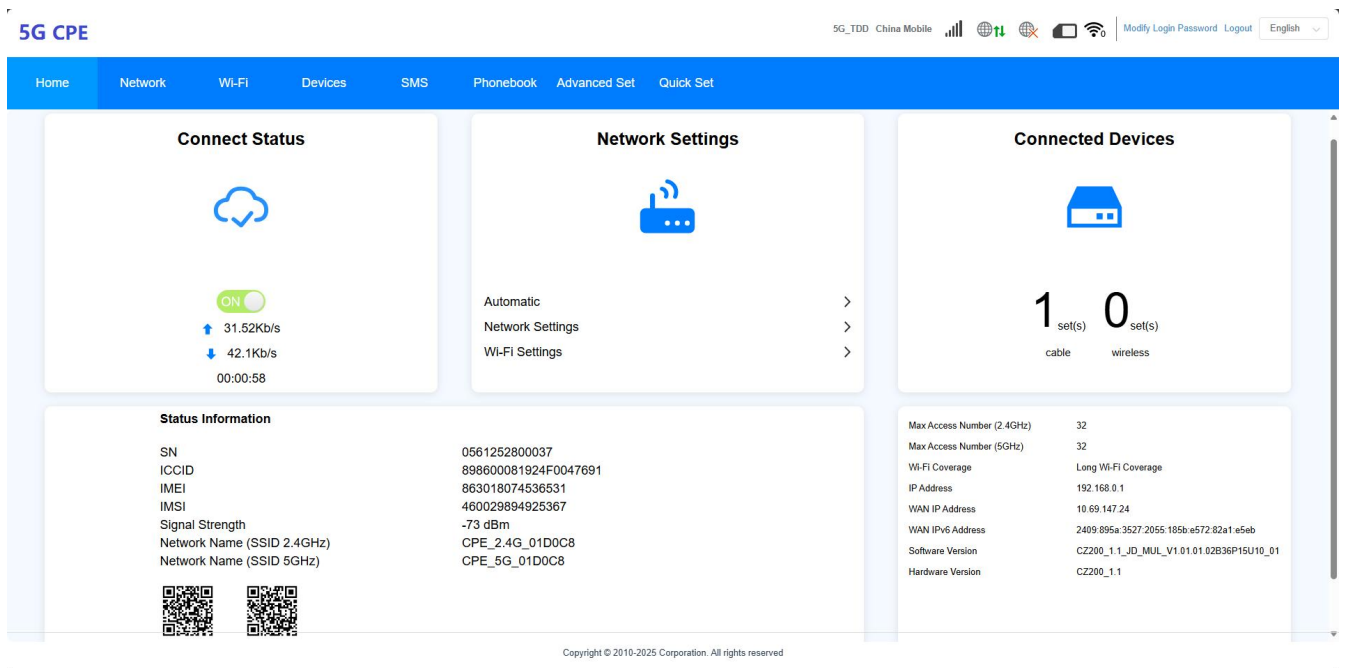


Figure 3 UI interface

2. Hardware specifications

2.1 Basic parameters

The 5GCPE parameters are shown in the table below

Table 1: Basic parameters of 5G wireless data terminals

project		description
Product Name	5G CPE	5G wireless data terminals
structure	Product size	136x52x1900mm
Net port	Wired network port	WAN1+LAN4 Ports
	Network port rate	10/100/1000Mbps
WiFi	WiFi wireless LAN	IEEE 802.11a/b/g/n/ac/ax(WiFi6)
		2.4GHz & 5GHz
	safe mode	open 64/128 bit WEP
		WPA-PSK/WPA2-PSK/WPA2(AES)/WPA3-Persona
SIM card	SIM card	Nano-SIM card interface
keystroke	Reset button	One-click factory reset
Light	Status indicator	Power、4G、5G、WiFi
temperature	Operating temperature	-10°C~+45°C
	Storage temperature	-20°C~+70°C
humidity	Operating humidity	5%~95% RH
	Storage humidity	1%~95% RH
Power supply	Supply voltage	DC12V-2A

Note: If there is a difference between the actual product and the above parameters, please consult the manufacturer.

2.2 Hardware Description

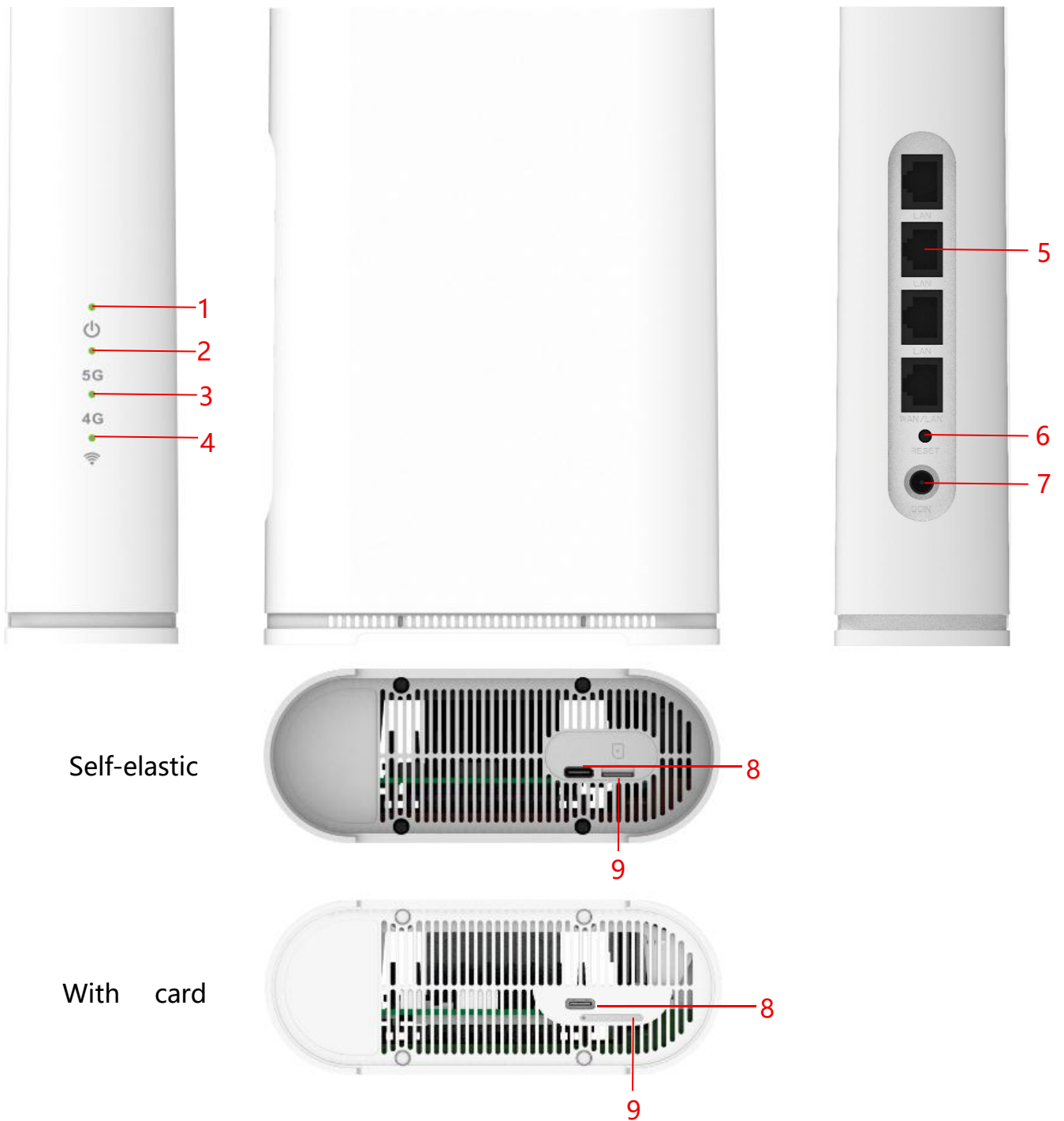


Figure 4 5G CPE interface diagram

2.3 Interface and Indicator Light Description

Table 2: 5G wireless data terminal interface table

number	icon	function
1	SIM card	Insert Nano SIM card to access the network.
2	Net port	Provide wired data transmission for LAN terminals to connect to computers or other LAN devices.
3	Power	Rated Input: DC12V 2A
4	Reset key	Hold reset button 5 seconds for factory reset and automatic restart.
5	Type-C	It can be used for NDIS Internet access; Manufacturer debugging

Table 3: 5G wireless data terminal indicators

number	icon	state	function
1	Power light	Green light	The power-on state is always on
		extinguish	The power is off
2	4G lights	Green light	Register for a 4G network that is always on
		Red light	Signal strength RSRP \leq -120dbm solid
		extinguish	Unregistered 4G network is turned off
3	5G lights	Green light	Sign up for a 5G network that is always on
		Red light	Signal strength RSRP \leq -120dbm solid
		extinguish	Unregistered 5G networks are turned off
4	WIFI light	Green light	WiFi is always on after starting
		Red light	WiFi stays on when it fails
		extinguish	WiFi turns off and then goes out
5	Mesh light	Green light	Flashes when transmitting,solid when idle.
		extinguish	Transmitting: flash, Idle: solid.

3、 Introduction to common functions

3.1 Wireless network status settings

Default Wireless WiFi Settings - Applied Immediately.

Table 4: WiFi default parameters

Default parameters	Parameter values
SSID name	Please refer to the outer box/body sticker
WiFi password	Please refer to the outer box/body sticker
channel	automatic
Band	2.4GHz、 5 GHz
Encryption	WPA2(AES)-PSK

Wi-Fi Basic Settings: Manage core network options including SSID visibility, security mode, password, and connection limit.

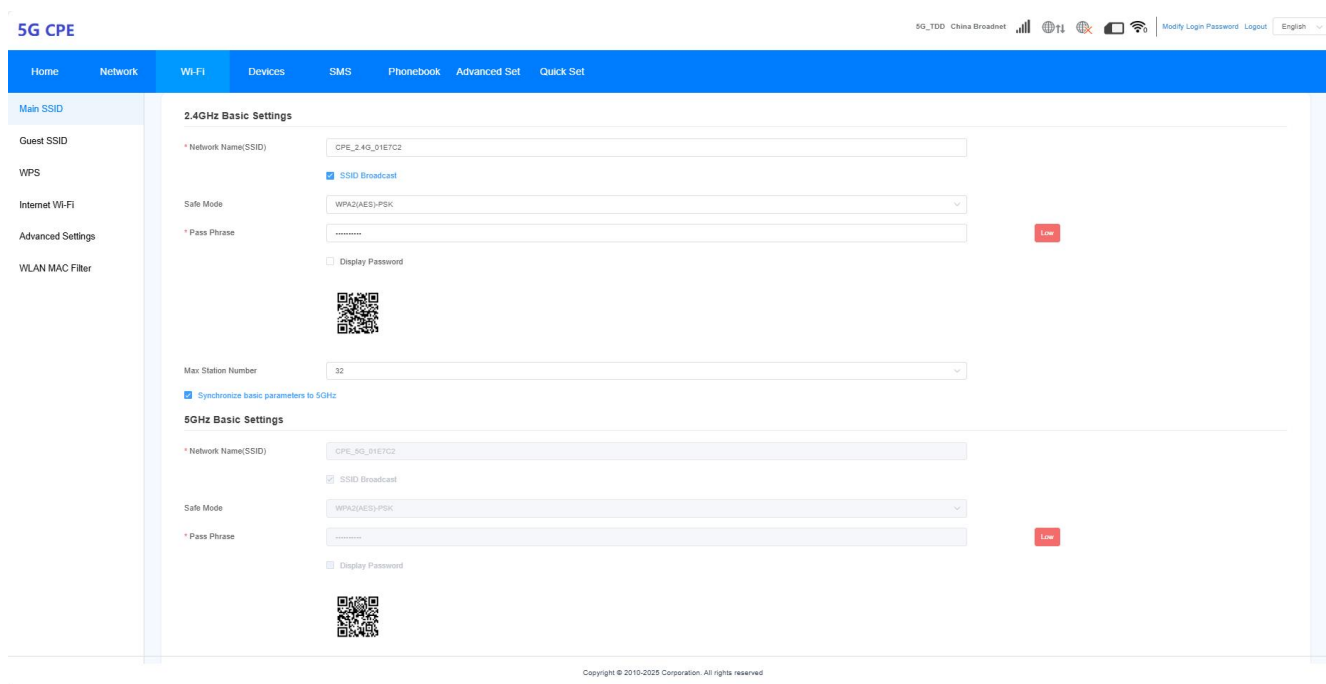


Figure 5 Wireless network status

3.2 Network standard switching

The router supports configuring 5GSA, 5GNSA, 4G or automatic network standards in the network finding method tab; To set up, you need to click the network connection button on the home page to turn it off.

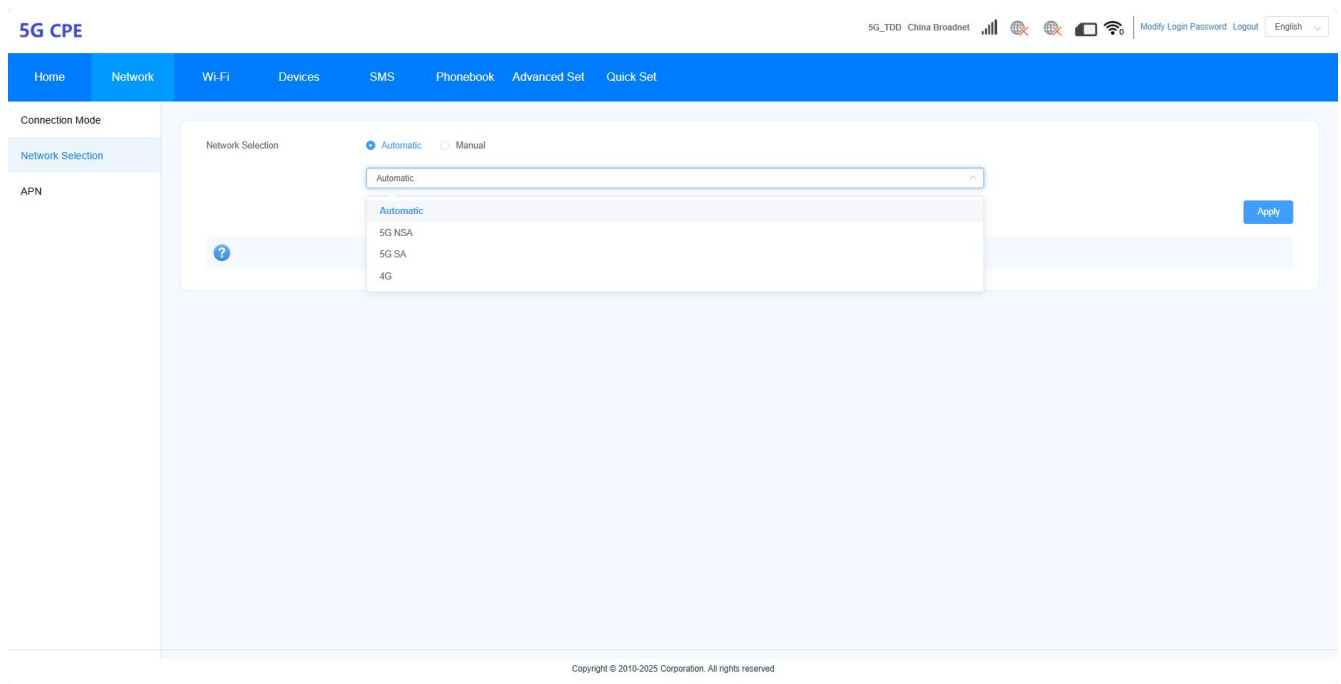


Figure 6 External network status

3.3 Advanced settings for intranet

You can modify the routing IP address and enable DHCP service. When setting up, you need to click the network connection button on the homepage to turn it off, and after the modification is completed, click Apply to restart the device for it to take effect. At this time, the gateway changes, and the background address is the modified gateway.

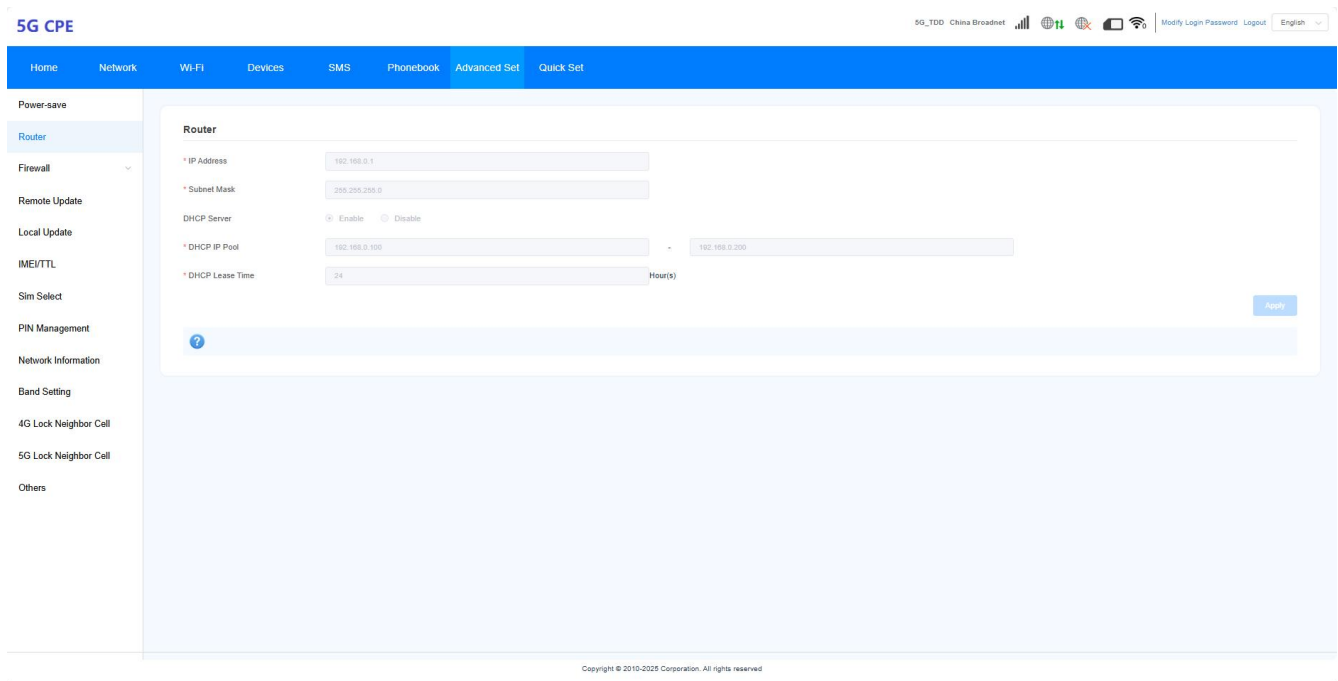


Figure 7 Intranet settings

3.4 APN Settings

If you are using a regular mobile phone card, you don't need to worry about APN settings, and you can connect to the Internet by inserting the card.

If you use an APN card and have a special APN address, you need to set the APN address, username and password here; First, fill in the correct APN address in the APN settings bar as required. After the setup is successful, restart the device.

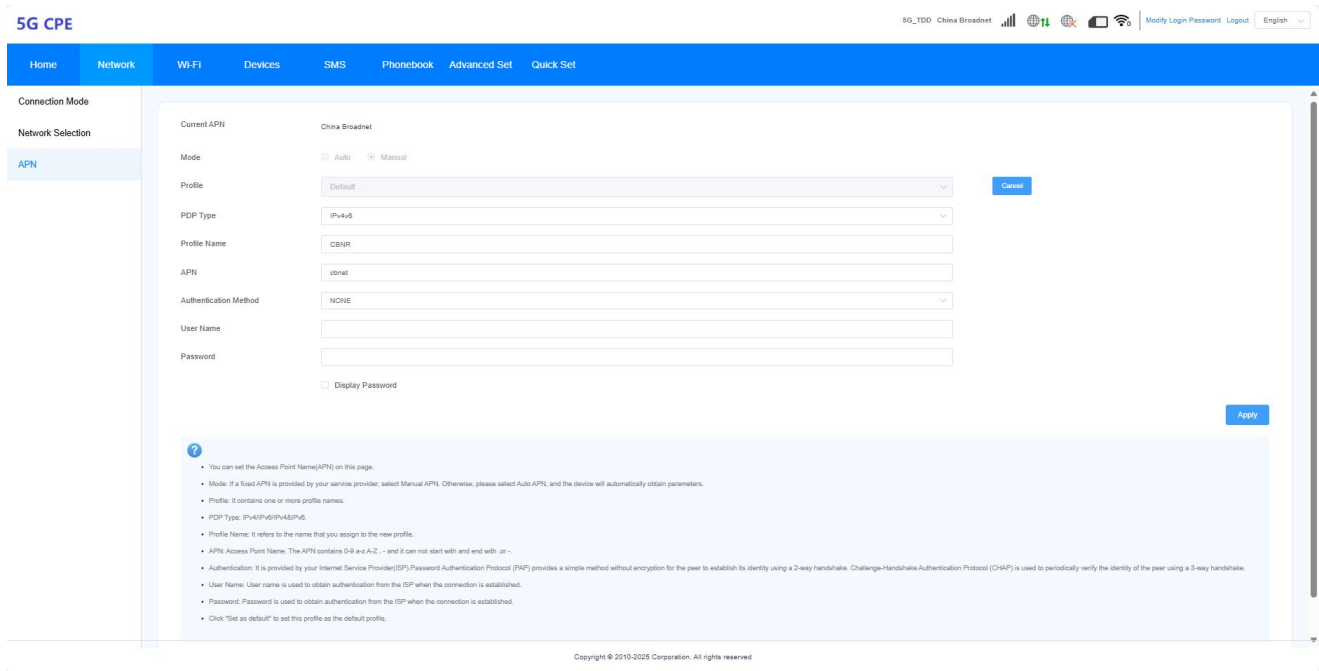


Figure 8 APN settings

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The module uses a Nano-SIM card, and when using the APN private network card, be sure to fill in the APN information, username and password.

You can set the Access Point Name (APN) on this page, and after the setting is completed, please restart the device to take effect. If you dial immediately, there may be unpredictable errors

3.5 Firmware Upgrade

Support web-based firmware upgrade function, do not power off, flash, or restart during upgrade.

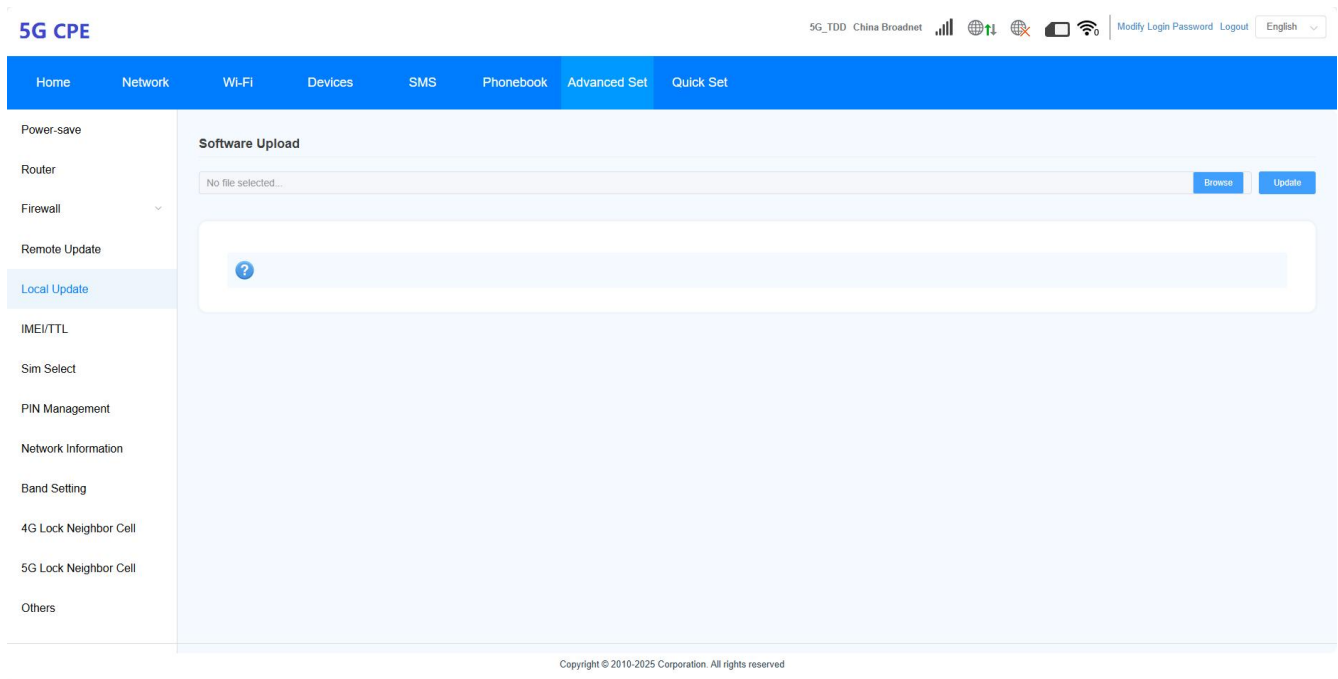


Figure 9 Firmware upgrade page

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Firmware upgrade process will last about 180 seconds, please try to log in to the web page again after 180 seconds (the status indicator will be solid after successful startup).

Do not power off or unplug the network cable during the firmware upgrade

5G, and WiFi indicators will flash normally during the firmware upgrade

3.6 Cut Card Settings

Support background card cutting settings; Device default card SIM1; You can choose the SIM card according to your needs, and move it to the home page to view relevant information.

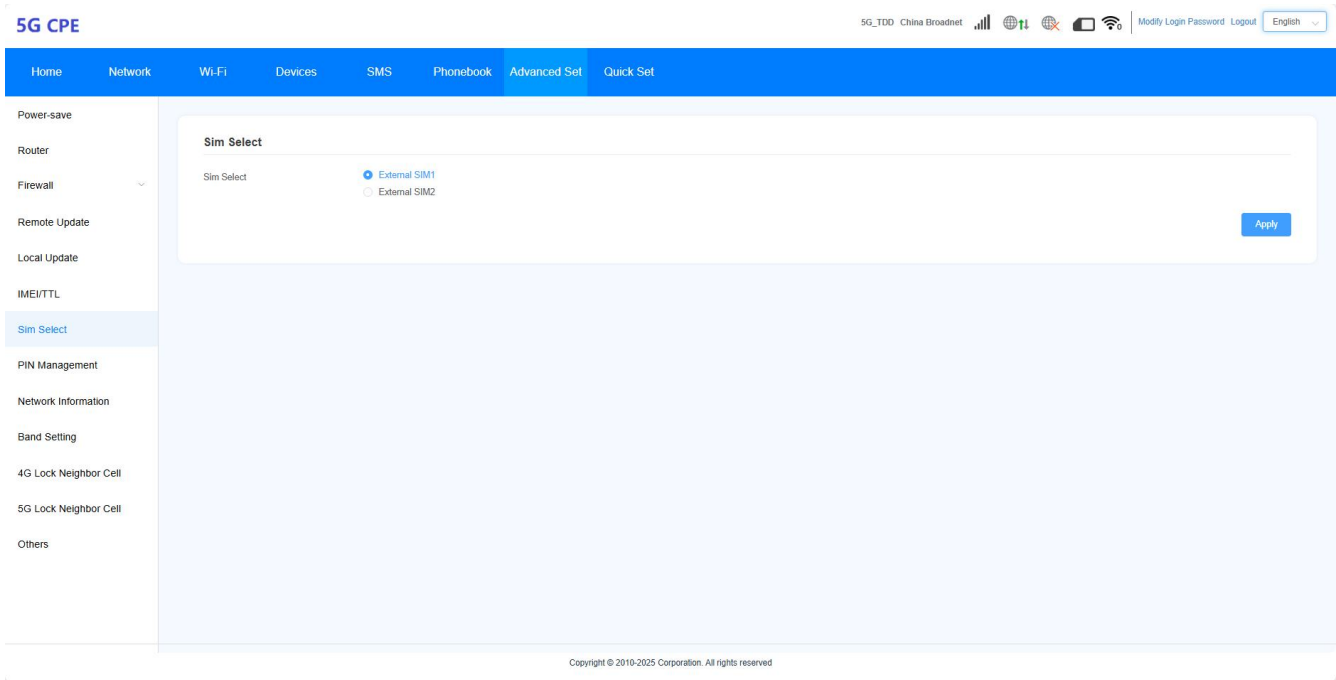


Figure 10 Checkcard setup page

3.7 Lock/Lock Cell Settings

Support background band selection and lock cell settings. The frequency band is selected according to the current environment or the current SIM card, all are turned on by default and the optimal frequency band is automatically selected, if there are no special circumstances it is not recommended to modify, this option may cause the device to be unable to access the Internet, and the factory settings can be restored to the default state.

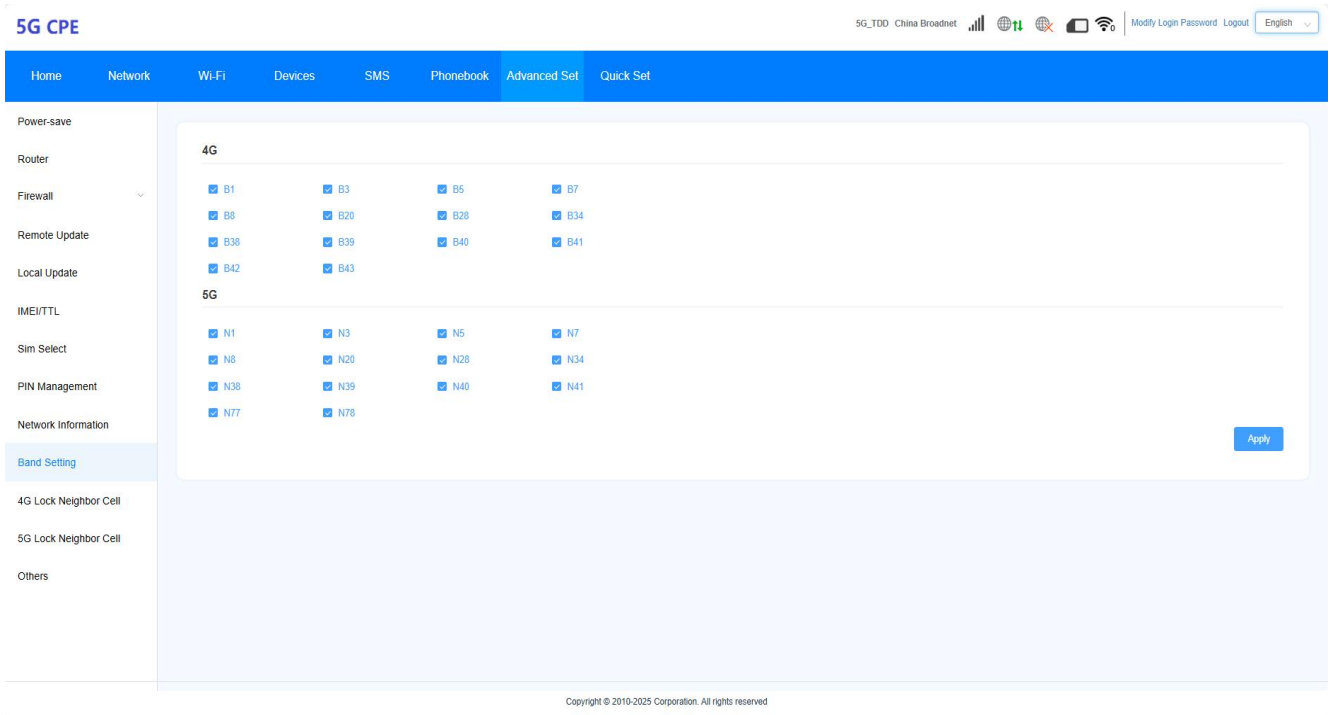


Figure 11 Band settings page

When locking a 4G cell, it only takes effect for the network in 4G mode at that time, and when locking a 5G cell, it only takes effect for the network in 5G mode at that time. When performing the lock cell operation, please apply the settings according to the list and confirm the PCI and frequency points of the current environment correctly. This option may cause the device to be unable to connect to the Internet, and a factory reset can be restored to its default state.

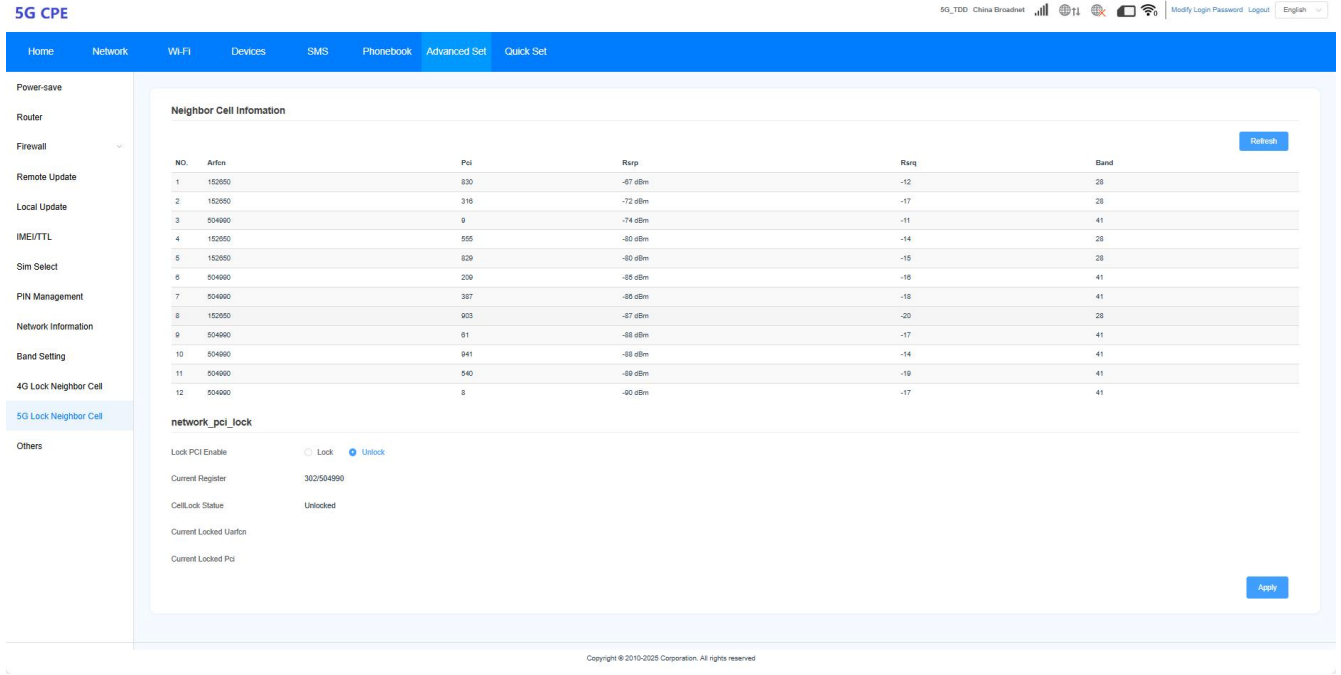


Figure 12 Lock cell settings page

3.8 Factory Reset

Supports web-based factory reset.

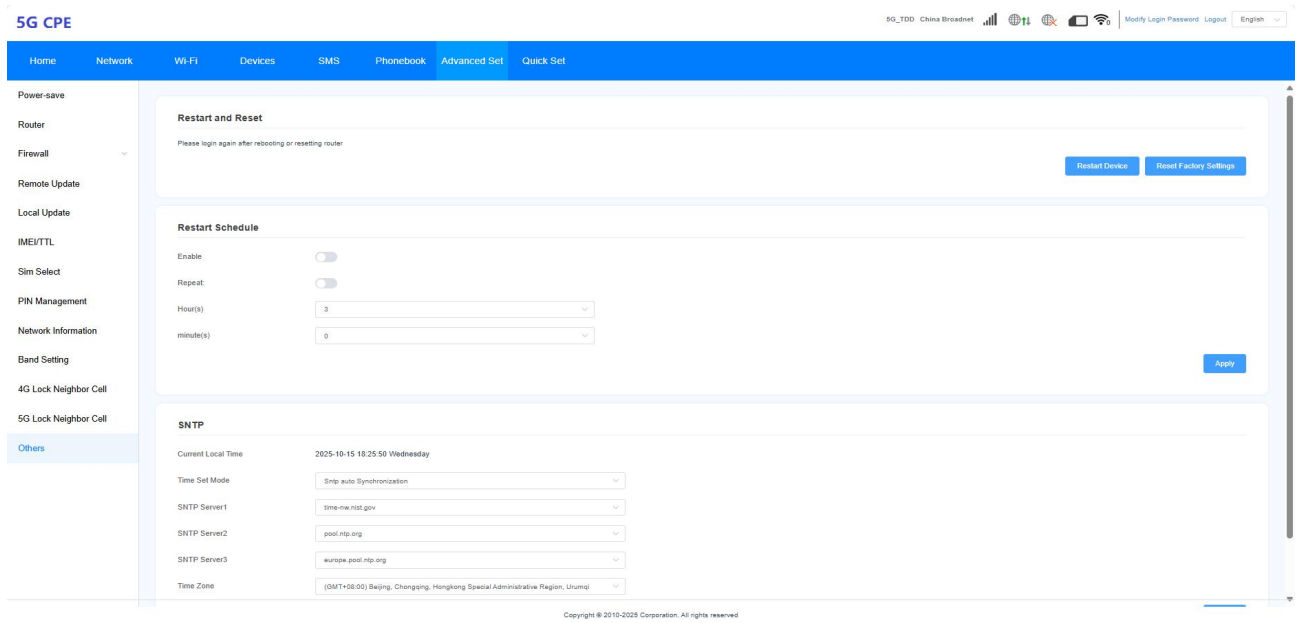


Figure 13 Factory Reset Page

< explains >

The module can also be restored to factory parameters by using the Reset button (hardware factory reset button).

Method: Press and hold for 5s to release, and the router will restore the factory parameter settings and restart by itself.

4. Frequently asked questions

4.1 How do I factory reset a module?

Plug the module into the power supply, wait for a while (after the indicator light of the device stabilizes), press the Reset button of the device, and hold it for more than 5 seconds to release, wait for the device indicator light to go off, and the device will automatically restart.

4.2 Lost Wi-Fi or Login Password

After a factory reset (method 4.1), the device reverts to its initial settings. The gateway address, Wi-Fi name, and password will match the label on the device, and the login password will be 'admin'. If the label is missing, connect via the wired USB/LAN port to find the gateway address. After logging in, you can reconfigure all settings.

4.3 5G Signal Light Off / No Internet Connection

- Please refer to the section "Inserting a SIM card to access the Internet" to confirm whether the SIM card is sized and inserted in the correct direction.
- Please contact your carrier to confirm if the SIM is overdue. If you

have a new SIM, please contact the operator to confirm whether the card has been activated

- Whether the power supply is powered on and whether the antenna is connected.
- Check if the current environment is not online
- Check if there is a lock/lock cell configuration in the settings, and you can try it after unlocking
- If the above methods still don't work, try a factory reset and try again.

4.4 What should I do if the Internet is slow?

- Turn the device at an angle or move it to a window for a better signal.
- If the Internet device (such as a mobile phone) is connected to the module via a wireless network, adjust the position of the Internet device according to the wireless signal strength displayed by the Internet device
- Check whether the data used in the month has exceeded the data limit contracted by the carrier (if it exceeds the limit, the speed limit may be limited by the carrier).
- Restart the module and the Internet device, and try again.

4.5 What should I do if I can't open the module's management page?

- Please make sure that your Internet device is connected to the

module via a network cable or wirelessly.

- Make sure your computer is set to automatically obtain IP addresses and DNS server addresses.
- Restart your browser, or try a new browser
- If the problem persists, try a factory reset.

4.6 Why is the content displayed on the admin page not up to date?

Depending on your browser's cache, the device information displayed on the management page may not be up to date. You can manually clear your browser's cache (for example, open your browser and select Internet Options > General > browsing history > delete) and then restart the admin page.

4.7 If you have other problems with the module, try the following:

- Restart the module.
- Factory reset.
- Contact your carrier or reseller.

5. Safety information

Before using and operating the device, please read and observe the following precautions to ensure optimal performance of the equipment and avoid dangerous or illegal situations.

Operating environment

- Please use the equipment in the range of -10°C~55°C and store the equipment and its accessories in the temperature range of -20°C~+70°C. When the ambient temperature is too high or too low, it can cause equipment failure.

Accessories requirements

- Use accessories approved by the device manufacturer for this model of equipment. Using other types of accessories may violate the warranty terms of this device and the relevant regulations of the country in which this equipment is located, and may result in safety incidents. For approved accessories, contact an authorized service center

Power safety

- Power outlets should be installed on the equipment accessory and should be easily accessible.
- When this device is not in use, disconnect the power supply from the device and unplug it from the power outlet

environmental protection

- Do not dispose of this equipment and its accessories as ordinary household waste.
- Please comply with local laws and regulations regarding the disposal of this equipment and its accessories, and support recall actions.

6. Disclaimer

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