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Safety Precautions

Read the safety precautions carefully to ensure the correct and safe use of your wireless device.



Do not switch on your device when the device use is prohibited or when the device use may cause interference or danger.



Do not use your device while driving.



Follow the rules or regulations in hospitals and health care facilities. Switch off your device near medical apparatus.



Switch off your device in an aircraft. The device may cause interference to control signals of the aircraft.



Switch off your device near high-precision electronic devices. The device may affect the performance of these devices.



Do not attempt to disassemble your device or its accessories. Only qualified personnel are allowed to service or repair the device.



Do not place your device or its accessories in containers with strong electromagnetic field



Do not place magnetic storage media near your device. Radiation from the device may erase the information stored on them.



Do not put your device in a hightemperature place or use it in a place with flammable gas such as a gas station.



Keep your device and its accessories away from children. Do not allow children to use your device without guidance.



Use approved accessories only to avoid explosion.



Observe the laws or regulations on device use. Respect others' privacy and legal rights when using your device.

1 Quick Start

Note

The supported functions and actual appearance are subject to your product purchased. The following pictures are displayed for illustration purpose only. For details of your product selection, consult your service provider.

Appearance



Indicator	Status
Power	Steady on and in yellow: The device is switched on successfully
WLAN/ LAN	Steady on and in yellow: The WLAN is enabled (Optional) Blinking: Data is being transmitted

Indicator	Status
Signal	Steady on and in green: Signal strength is strong
	Steady on and in yellow: Signal strength is medium
	Steady on and in red: Signal strength is weak
	 Fast blinking in red: The SIM card does not exist or the PIN code is not verified
Mode	Double blinking in green: Searching for the network
	Blinking in green: Registering with the 2G network
	Steady on and in green: 2G data service connected
	Blinking in blue: Registering with the 3G network
	 Steady on and in blue: WCDMA data service connected
	 Steady on and in cyan: HSPA data service connected

PC Configuration Requirements

The recommended PC configurations for using the gateway are as follows:

· CPU: Pentium 500 MHz or above

Installation

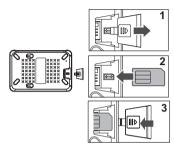
- · Memory: 128 MB RAM or above
- · Hard disk: 100 MB or above available space
- Operating System: Windows 2000, Windows XP, or Windows Vista
- LCD resolution: 800*600 pixel or above, recommended 1024*768 pixel.
- · Interface: standard USB interface
- Internet Browser: Internet Explorer 6.0 or Internet Explorer 7.0. Firefox 1.5 or Firefox 2.0. Safari 3.0.

Installation

◆ Step 1: Insert the SIM card



Before inserting or removing the SIM card, you must disconnect the device from the power adapter.



◆ Step 2: Connect to the power adapter Use a power adapter that is compatible with the device: otherwise, the device may be damaged.



Step 3: Connect to a PC

If the indicator of the Ethernet interface connecting with a network cable is on, the connection is successful. The Ethernet cable cannot be longer than 100 meters (328 feet). To achieve better effect, use the shielded cable.



◆ Step 4: Connect to a telephone set

The communication quality of the telephone set can be interfered by the wireless signal. Place the telephone set one meter away from the device.



Step 6: Place the device



To prevent electrical devices from being interfered by wireless signals, place electrical devices one meter away from the device.

The device can be placed horizontally on a table or hanging against the wall. Place the device on a higher place or near the window, so it can receive stronger signals.

◆ Step 7: Power On/Off

Press and hold the **On/ Off** button to power on or off the device.

Making a Call

When you hear the dial tone after picking up the handset, you can make a call.

Dial-up Access

By default, the device dials up to access the Internet as required. You can directly use the network services such as web browsing, and receiving or sending emails.

Dial-up Access

Logging In to the Management Page

- 1 Start the Internet browser and enter the address http://192.168.1.1 in the address bar.
- 2 Select a user type, enter the password, and then click Login.
 - Admin: This user type is authorized to view and change configurations. The default password is admin.
 - User: This user type is authorized to view only the basic status information. The default password is user.

Note To avoid the configuration conflict, only one user is allowed to log in to the management page at a time.

Accessing the Internet

1 Click Connection.



- If you are required to enter the PIN code, enter the correct one. If you fail to enter the correct PIN or PUK code, the network-related functions are unavailable.
- The SIM card is supplied by the service provider. For details, contact your service provider.
- When the Save PIN Code check box is selected, the Auto validation is enabled.
- If Auto validation is enabled, the PIN code is recorded and automatically validated after each restart.
- 2 If PPP Connection is Manual, click Connect / Disconnect to connect to or disconnect from the network

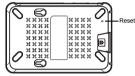


If PPP Connection is Auto or On Demand, refresh the page to view the current network connection status.

Wait for several minutes. If you are notified that the connection is successful, you can start the browser and enter the website address to access the Internet.

Restoring the Factory Defaults

If you need to reconstruct the network or you forget the changes of some parameters, you can choose to restore factory defaults and reconfigure the device.



Reset: Press and hold it to restore the factory defaults.



After this operation, all configurations are restored to the defaults.

2Using the Management Page

Management Page Overview Operation Functions

The following table shows the main operations in the management page.

Item	Description
Basic Status	Displays the parameter configuration status of the device.
Quick Setup	Quickly configures the device.
Connection	Displays the network connection status and connects to the network.
Advanced Settings	Configures the advanced settings.
Security	Configures the security settings.
Logout	Log out of the management page.

Device Status

The following table shows the status information of the device.

Item	Green icon	Red icon
SIM	The card is valid.	The card is not inserted or is invalid.
WAN	The PPP dial-up connection is established.	The PPP dial-up connection is not established.
WCDMA	The WCDMA network is available.	The WCDMA network is unavailable.
	other net	ice is registered with work modes, the nding network connection displayed.
SIG	The signal strengt	th from weak to strong
	ocatatiatil	

Viewing Configuration Info

On the configuration page, you can view the current parameter configuration information and the network connection status.

- 1 Click Basic Status.
- Click Advanced on the right part of the page to view the advanced status.
- Click Refresh to view the current status on the advanced status page.

Quick Setup

You can use the quick setup wizard to configure and maintain the basic parameters of the device. Click **Quick Setup** to access the welcome page. Click **Next** to configure the PPP profile settings.

Configuring PPP Profile Settings

- Profile Name: Enter a profile name when the text box is empty.
- Dial-up Number/PPP User Name/PPP Password: Enter these three parameters provided by the internet service provider (ISP). The dial-up number is used to initiate the network call; the PPP user name and PPP password is used to obtain the service authorization provided by the ISP.
- APN/IP Address: Select the mode for obtaining the access point name (APN) and IP address. If the service

provider provides the relevant parameters, select **Static** and enter their values. Otherwise, select **Dynamic** and the device automatically obtains them.

Configuring PPP Dial-up Settings

PPP Connection: Select the dial-up access mode.

- Auto: The device automatically connects to the Internet and does not disconnect when no data is transmitted.
- On Demand: The device automatically connects to the Internet when data transmission exists. When the duration of no data transmission exceeds the maximum idle time, the device disconnects the Internet connection.
- Manual: The device connects to the Internet after you click Connect on the connection page. For details, see "Accessing the Internet".

PPP Authentication: This service is provided by your ISP. For details, consult your ISP.

Configuring WLAN Settings (Optional)

(Name) SSID: Enter a name for your wireless local area network (WLAN).

 The service set identifier (SSID) is used to identify a WLAN. A PC and the wireless device can perform normal data communication only when they have the same SSIDs. To ensure the WLAN security, do not use the default SSID. You can enter a character string as the SSID, such as MyHome.

Quick Setup

SSID Broadcast: Enable or disable the SSID broadcast

- Enabled: The device broadcasts the SSID of the WLAN and users can easily access the WLAN. In this case, unauthorized users can also access the WLAN because the SSID is broadcasted.
- Disabled: The device does not broadcast the SSID of the WLAN. Before accessing the WLAN, a user must obtain the SSID of the WLAN. In this case, the WLAN security is improved.



For the convenience of users accessing the WLAN, you can select **Enabled** for SSID Broadcast when you configure the WLAN setting. After the setting, you can select **Disabled** to improve the WLAN security.

Configuring WLAN Encryption (Optional)

To access the WLAN, you must set the wireless security key on your PC to be the same as that of the wireless device.

No Encryption

 For the convenience of users accessing the WLAN, you can select NO ENCRYPTION for the Encryption Mode when you set up a WLAN. It is not recommended to select this option in daily use.

WPA-PSK/WPA2-PSK

- WPA-PSK: It is a 256-bit data encryption method that can automatically change the key.
- WPA2-PSK: It is a more secure version of WPA-PSK and it supports the IEEE 802.11i standard.
- · WPA Encryption Algorithm: TKIP, AES, TKIP+AES.
- WPA Pre-Shared Key: You can enter a 64-character hexadecimal value or 8-63-character ASCII value as the key. The ASCII value contains all characters that can be entered through the PC keyboard, and the hexadecimal value contains numbers of 0-9 and characters of A-F. For example, you can enter the ASCII value of 1234abcde as the key.
- Network Key Rotation Interval: It is used to set how long a network key is dynamically changed. By default, it is 0. To disable this function, you can set the value to 0 or null.

WEP

- Wireless Equivalent Privacy (WEP) is a 64-bit or 128-bit data encryption method. The 128-bit WEP encryption provides higher security level.
- Network Key 1: You can enter 5 ASCII characters or 10-character hexadecimal numeral to form a 64-bit key. You can also enter 13 ASCII characters or 26-character hexadecimal numeral to form a 128-bit key.

Validating Quick Setup

The last page of the wizard displays all the settings you have configured.

- To accept the settings, click **Finish**.
- To change the settings, click Back.
- To quit the settings, click Cancel.

3 Configuring Your Computer

This takes the Windows XP operating system (OS) as an example to describe how to configure your computer. For other OSs, the configurations may be different and you need to configure them as required.

Wireless Configuration (Optional)

The wireless configuration allows your PC to connect to the device through the wireless network. If you need only the Ethernet to connect your PC, you can skip this part.

Configuration Requirements

- To set up wireless network connection, your PC must be configured with the WLAN adapter that supports the IEEE 802.11 b/g protocol.
- If the encryption function is enabled, you need to ensure that all PCs connecting to the device use the same key as that of the device.
- For the use of WLAN adapter, refer to the WLAN adapter user guide provided by the manufacturer.
- For the encryption configurations, see "Configuring WLAN Encryption (Optional)".
- For SSID parameters configuration, see "Configuring WLAN Settings (Optional)".

Configuring the Wireless Network

- Choose Start > Control Panel > Network
 Connections > Wireless Network Connection.
- Click Show Wireless Networks to display the wireless network connection list.
- 3 Select the network connection that the SSID is the same as that of the device, and then click Connect
- If the encryption parameter is set for the device, the Wireless Network Connection dialog box is displayed and requires the network key and confirmation. The value you entered must be the same as the WPA Pre-Shared Key or Network Key of the device.
- Wait for a while after you enter the correct network key. The wireless connection icon displays in the status area in the lower right corner of the screen. Then, your PC can automatically connect to the device.

Configuring the PC Network

Configuring the PC Network

The recommended configurations of the PC are as follows:

- · Obtain an IP address automatically.
- · Deselect Use a proxy server for your LAN.

Configuring the Network Connection

- 1 Choose My Network Places > Properties > Local Area Connection.
- Right-click the Local Area Connection icon and select Properties.
- In the Local Area Connection Properties dialog box, select Internet Protocol (TCP/IP) in the This connection uses the following items list box, and then click Properties.
- In the Internet Protocol (TCP/IP) Properties dialog box, select Obtain an IP address automatically and Obtain DNS server address automatically, and then click OK.

Disabling Proxy Settings

- Start the Internet browser, and then choose Tools > Internet Options.
- Select the Connections tab, and then click LAN Settings.
- In the LAN Settings dialog box, deselect Use a proxy server for your LAN.

4 Advanced Settings

Overview

Click Advanced Settings, you can configure both the basic attributes and advanced parameters of the device, and also perform routine maintenance and management to the device.

The following table shows the functions of the shortcut icons

Description lcon



Click to access the System page.



Click to access the SIM Settings page.



Click to access the Mobile Network Settings page.



Click to access the Dial-up Settings page.



Click to access the DHCP Settings page.



Click to access the Clip Settings page.

lcon Description



Click to access the WLAN Settings page. (Optional)

System Management



Click to access the **System** page.

Changing the Password

You can change the login password to prevent unauthorized users from logging in to the management page.

- Enter the current password, and then enter the new password and confirm it.
- Click Modify.

Upgrading the device







- 2 Enter the path or click **Browse** to select the software image file to be updated.
- 3 Click Upgrade.



- After the system is upgraded, the system automatically restarts.
- The software programs for upgrading must come from the official website of Huawei or the official website of the service provider.
- Upgrading the software does not change the configuration of the client.

Restoring the Factory Defaults

If you need to reconstruct the network or you forget the changes of some parameters, you can choose to restore factory defaults and reconfigure the device.

Click to access the **Restore Defaults** page, and then click **Restore**.



After this operation, all configurations are restored to the defaults.

Restarting the Device



to access the **Reboot** page.



Viewing the Version Information



to access the Version page.

SIM Settings



to access the SIM Settings page.

Enabling or Disabling the PIN Code

1 Click



Select Enable/Disable in the PIN Code Operation list box.

Mobile Network Settings

- Enter the correct PIN code if enabling the PIN code.
- 4 Click Apply.

Changing the PIN Code

When the PIN code protection is enabled, you can reset the PIN code.

- 1 Click
- Select Modify in the PIN Code Operation list box.
- 3 Enter the current PIN code.
- 4 Enter the new PIN code and confirm it.
- 5 Click Apply.

Auto Validating PIN Code

You can enable or disable the auto validating PIN code function.

- Click 🗹
- Select Enable/Disable in the Auto Validate option button.
- 3 Enter the current PIN code if enabling the auto validating PIN code.
- 4 Click Apply.

Mobile Network Settings

Click to access the **Mobile Network Settings** page.

Setting the Preferred Mode and Band

- 1 Click
 - Select the preference of connection mode in the Preferred Mode list box.

Dial-up Settings

Note

- If the service provider provides only the 2G service and the preferred mode is configured as 3G only, you cannot access the Internet
- If the service provider provides only the 3G service and the preferred mode is configured as 2G only, you cannot access the Internet.
- If the service provider provides neither the 3G nor 2G service, you cannot access the Internet regardless of the preferred mode.
- 3 Select the band to search the network in the **Band** list box.
- 4 Click Apply.

Configuring the Mode for Searching Network

- 1 Click
- 2 Select the mode for searching the network.

- Auto: The device automatically searches the network and registers with it.
- Manual: You need to manually search the network and register with it.
- 3 Click Apply.
- In Manual mode, select the searched network and click Log on.

Dial-up Settings



to access the Dial-up Settings page.

Configuring the PPP Settings

- Click to access the PPP Settings page.
- 2 Enter the correct parameters.
 - Profile List: Select a profile from the established dial-up connection list. If the drop-down list is empty, you need to create a profile list.
 - PPP Connection: Select the dial-up connection mode.

DHCP Settings

- PPP Authentication: The service is provided by your ISP. For details, consult your ISP.
- PPP Max Idle Time: The duration of the PPP connection is in idle. In On Demand mode, if no data is transmitted in this duration, the PPP connection automatically disconnects.
- . PPP MTU: It is the maximum transmission unit (MTU) of the PPP connection. It is used to set the maximum number of bytes encapsulated in a single data frame.
- . PPP Max Dial Time: Set the maximum waiting time when connecting to the Internet.

Managing the Profile List

Click to access the **Profile Settings** page.

Creating a Profile

- Enter the profile information according to the prompts.
- Click Save.

Changing a Profile

- Select a profile to be changed in the Profile List drop-down list. Relevant information is displayed in the corresponding text box.
- Enter the profile information.
- Click Save.
- Deleting a Profile
- Select a profile to be deleted in the **Profile List** drop-down list.
- Click Delete.

DHCP Settings

to access the DHCP Settings page, you can set the mode for assigning IP addresses in a LAN. DHCP automatically assigns IP addresses to the network devices. If you are using the DHCP server, you need to do the configurations on the PC

connecting with the device. For details, see "Configuring the Network Connection".

- . IP Address: The default IP address of the device is 192 168 1 1
- . Subnet Mask: The combination of the subnet mask and IP address enables the flexible sub netting. By default, the subnet mask is 255, 255, 255, 0
- DHCP Server: It is used to assign IP addresses. dynamically. If the DHCP server is Enabled, it can automatically assign IP addresses for PCs. It is recommended to select **Enabled** for the DHCP server.
- . Start IP Address/End IP Address: It is used to define the IP address range that the host can use during the IP address assignment. For example, in the network segment 192,168,1,0/24, the default IP address of the device is 192.168.1.1. The host IP address can range from 192.168.1.2 to 192.168.1.254. The minimum range is a single IP address.
- . DHCP Lease Time: The DHCP server automatically assigns an IP address to each device connected to the network. When the leased time expires, the DHCP server checks whether the device is connected to the network. If the device is disconnected from the network. the server assigns the IP address to another device. Thus, the IP address is not wasted.

Note

- . The Start IP Address must be smaller than or equal to the End IP Address.
- · If the DHCP Server is Enabled, the configurations of Start IP Address. End IP address, and DHCP Lease Time are valid: otherwise, you cannot configure them.

Clip Settings

- Click to access the Clip Settings page.
- Select Clip Mode.
- Click Apply.

WLAN Settings (Optional)

Click to access the WLAN Settings page.

Enabling or Disabling the WLAN

1 Click to access the WLAN Enable page.

WLAN Settings (Optional)

- Select Enabled/Disabled to enable or disable the WLAN.
- 3 Click Apply.

WLAN Basic Settings



to access the WLAN Basic Settings

Wireless Interface

 It refers to the SSID and MAC address, and is used to identify the wireless device.

SSID

- · Entering a name (SSID) for your WLAN.
- · Enabling or Disabling the SSID Broadcast.

Enabling or Disabling the AP Isolation

- On: The terminals (PCs) connecting to the device through the WLAN cannot communicate with each other.
- Off: The terminals (PCs) connecting to the device through the WLAN can communicate with each other.

Selecting a Country

 Country: It is used to identify the country. Different countries have different standards on channel usage.

Selecting a WLAN Channel

 Channel: It refers to the channel that the device works with. If you do not know which channel to select, select Auto and the device can automatically search for the channel.

◆ Configuring the 802.11 Mode

J. J	
Mode	Description
54g Auto	The WLAN has the best compatibility in this mode.
54g Performance	The WLAN has the best performance in this mode.
54g LRS	If the device has difficulties in communicating with devices conforming to the IEEE 802.11b standards, select this mode.
54g Only	The device can only work in the low performance 802.11g standard network mode.

WLAN Settings (Optional)

Mode Description

802.11b Only The device can only work in the low performance 802.11b standard network mode

Configuring the Transmission Rate

- Select Auto, the device automatically searches the transmission rate
- Click Apply to submit the setting.

WLAN Advance Settings



to access the WLAN Advance Settings

A security key can protect your WLAN from illegal data attacking. The security key of your wireless device must be consistent with that of the PC

Configuring the 802.11 Authentication

 Open: Open system authentication. A user accessing the WLAN can choose WEP, WPA-PSK, WPA2-PSK or WPA-PSKIWPA2-PSK key to pass the authentication or choose No ENCRYPTION to skip the authentication.

- · Shared: Shared key authentication. It can use only WEP. The user accessing the WLAN must use the WEP to authenticate
- Configuring the Encryption Mode
- · Encryption modes: No ENCRYPTION, WPA-PSK, WPA2-PSK WPA-PSKIWPA2-PSK and WEP.
- For details, refer to "Configuring WLAN Encryption (Optional)".

WLAN Bridge



to access the WLAN Bridge page.

- · Preamble Type: It has two options: Long and Short. In the case that the client (PC) supports the **Short** type, the WLAN can have a better performance if it is Short.
- MAX Associations Limit: It refers to the maximum. number of connections. It is used to set the maximum. number of concurrent WLAN users on the device
- Mode: It refers to the WLAN accessing mode. The device can work in two modes, as shown in the following table. The default value is Access Point.

WLAN Settings (Optional)

Mode	Description
Wireless Bridge	It is used to connect two or more access points.
Access Point	The access points meeting the IEEE 802.11b/g standard or the wireless terminals can connect the wireless device.

- Bridge Restriction: It refers to the limitation to the peer MAC addresses. When it is Disabled, the device can access all the remote bridges; when it is Enabled, the device can only access the remote bridges that the addresses are in the address list.
- Bridges: It refers to the physical address of the remote peer bridge. The device supports the point-to-multipoint (PTM) bridge mode.
- Peer MAC Address: It refers to the physical address list of the remote peer bridges.
- Link Status: Up shows the successful connection and Down shows the failed connection.

Configuring the MAC Filter

Click to access the WLAN MAC Filter page. You can control and manage the clients

accessing the WLAN, and improve the WLAN security performance.

MAC Restrict Mode

The following table shows the MAC address filter modes:

Parameter	Description
Disabled	The MAC address filter function is disabled.
Allow	The clients with addresses in the MAC Addresses list are allowed to connect with the device through the WLAN.
Deny	The clients with addresses in the MAC Addresses list are not allowed to connect with the device through the WLAN.

MAC Addresses

 Enter MAC addresses in the list. The device can perform the access control over the clients whose MAC addresses are in the list.

5 Security Settings

Click **Security**. You can configure the advanced security settings.

Firewall Switch

Your device has a true firewall that controls the incoming and outgoing data flow and protects your computer from illegal intrusion.

- 1 Click
- 2 Select the Enable the firewall (main switch of the firewall) check box to enable the firewall.

Note

- Only when the Enable the firewall check box is selected, the other functions such as the IP address filter function, the MAC address filter function, and the WAN port ping function are available.
- When the Enable LAN MAC address filter check box is selected, the default filter rules are available.
- 3 Select other options as required, and then click Apply.

LAN MAC Filter

Your device supports MAC filtering based on a list of either denied or allowed computers. A common method to restrict network access is to specify the Media Access Control (MAC) address.

To locate the MAC address in the Windows OS, choose **Start > Run**, and then enter **cmd**.

The command window is displayed, enter **ipconfig/** all, and then press **Enter**.

The MAC address is displayed as the **Physical Address**.

- 1 Click
- Select LAN MAC Filter Mode.
- Enter the MAC addresses of the clients and click Apply.

LAN IP Filter

You can configure the device to block specific IP addresses so that they cannot be accessed from

Virtual Server

computers in the local network.

- 1 Click
- 2 Select Protocol and Status.
- 3 Enter the IP addresses and corresponding ports to be blocked from accessing the LAN.
- 4 Click Ok.
 - · Validate: Click Apply.
 - Edit: Click in the Modification column.
 - Delete: Click in the **Modification** column.

Virtual Server

Your device supports the virtual server to enable external computers to access WWW, FTP, or other services provided by the LAN.

- 1 Click
- 2 Select Protocol and Status.

- 3 Enter values in the following text boxes:
 - Name: Enter a name to the service provided by the LAN
 - WAN Port: Enter the WAN port of the LAN in which the computer provides services.
 - IP Address: Specify a computer in the LAN to provide services.
 - LAN Port: Enter the LAN port of the computer that provides services.

Note

You can also add a virtual server in the following way: select a port from the **Common Port** list. The Protocol, Status, Name, WAN Port, and LAN Port will be set as the default values. If required, you can change them.

- 4 Click Ok.
 - · Validate: Click Apply.
 - Edit: Click in the Modification column.
 - Delete: Click in the Modification column.

DMZ Settings

If your PC cannot run network applications through the device, you can set the computer to access the Internet unlimitedly by configuring the IP address of the computer in the demilitarized zone (DMZ).

However, the DMZ computer is not protected by the firewall. It is vulnerable to attack and may also put other computers in the home network at risk.

- 1 Click
- 2 Select **Enabled/Disabled** for **DMZ Status** to enable or disable the DMZ service.
- 3 Enter the local IP address of the computer that is specified as a DMZ host.
- 4 Click Apply.

Note

Only one computer can be specified as a DMZ host at a time.

UPnP Settings

The Universal Plug and Play (UPnP) service allows other network users to control your device's network features to realize the intelligent interconnection.

- 1 Click
- Select Enabled/Disabled for UPnP Status to enable or disable the UPnP service
- 3 Click Apply.

Remote Management

The remote web management allows the access and control of the device either from the home network or from the Internet.

When you are on a trip, you can maintain your device through the remote web management service. It also allows your ISP to help you solve the device problems from a remote location.

1 Click .

Remote Management

- Select Enabled/Disabled for Remote Status to enable or disable the service.
- 3 Enter the IP address that can access and control your device.
- 4 Click Apply.

6 Troubleshooting

What to do if a PC in the LAN cannot access the Internet?

- If the power indicator is off, you need to check whether the power adapter is normally connected.
- If the signal strength indicator is off, you need to check whether the area is covered by the network.
- If the area is covered by the network, you need to check whether the network mode is correct. For information about network mode, see "Mobile Network Settings".
- If the indicator of the Ethernet interfaces blinks, the corresponding Ethernet interface is normally connected. If the indicator is off, you need to check and ensure that the related Ethernet connection is normal.
- You must configure the correct PPP user name and PPP password when you access the Internet through the device. Check whether they

- are correct, and see "Configuring PPP Profile Settings" for details.
- If the DHCP service is disabled and the PC obtains the IP address dynamically, the PC also cannot access the Internet. You can change the mode to manually assign an IP address. See "Configuring the Network Connection".
- 7 Check whether the driver of the network adapter is correctly installed.
- 8 If the preceding methods cannot solve the problem, please consult your service provider.

What to do if a PC in the WLAN cannot access the WLAN? (Optional)

If interferences or shields near the device exist, you can adjust the position of the device. When the signal strength is strong, you can move to the next step.

- Check and record the following data on the network adapter of your PC: SSID, WEP type, and key.
- Check and record the following data on the device: SSID, WEP type, and key.
- Compare the recorded data, the SSID on the network adapter should be ANY or be the same as that on the device. The WEP type and key on the network adapter and device should be the same. Otherwise, you need to change the data on the network adapter.

What to do if I forgot the IP address of the LAN interface?

If you forgot the IP address of the LAN interface, you can enter http://e.home and log in to the management page when the PC obtains the IP address automatically.

What to do if bridging between two devices is unsuccessful? (Optional)

- Make sure that the two devices work on the same channel. For details, see "Selecting a WLAN Channel".
- Make sure that the MAC address of one device is in the peer MAC address list of the other device. For details, see "WLAN Bridge".

When the signal strength is normal, what to do if the downloading rate is low?

In this case, you need to set the value in the registry as follows:

- Choose Start > Run.
- Enter regedit in the Open text box and then click OK.
- 3 Select parameters in the following directory: \HKEY_LOCAL_MACHINE\SYSTEM\CurrentC ontrolSet\Services\Tcpip.

- 4 Choose Edit > New > DWORD Value.
- 5 Rename New Value #1 to TcpWindowSize.
- Right-click TcpWindowSize and then select Modify.
- Select **Decimal** and enter **65535** in the **Value** data text box, and then click **OK**.
- For the DWORD Value of DefaultRcvWindow, do the same operations as that of TcpWindowSize.

Abbreviations

3G	The Third Generation
AP	Access Point
APN	Access Point Name
CDMA	Code Division Multiple Access
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name Server
EDGE	Enhanced Data rates for GSM Evolution
GSM	Global System for Mobile
	communications
GPRS	General Packet Radio Service
HSPA	High Speed Packet Access
HSDPA	High Speed Downlink Packet Access
HSUPA	High Speed Uplink Packet Access
IP	Internet Protocol
LAN	Local Area Network
LED	Light Emitting Diode
NAT	Network Address Translation
POTS	Plain Old Telephone Service
VoIP	Voice over IP
UMTS	Universal Mobile Telecommunications
	System

WAN	Wide Area Network
WLAN	Wireless Local Area Network
WCDMA	Wideband CDMA
WI-FI	Wireless Fidelity

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