

**Wonderful Communication, Mobile Life.**

Welcome to HUAWEI B932/933 Series Wireless Gateway

HUAWEI B932/933 Series Wireless Gateway

**User Guide**

# Notice

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# Safety Precautions

Read the safety precautions carefully to ensure the correct and safe use of your wireless device. For detailed information, see "Warnings and Precautions."



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 high-temperature 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.

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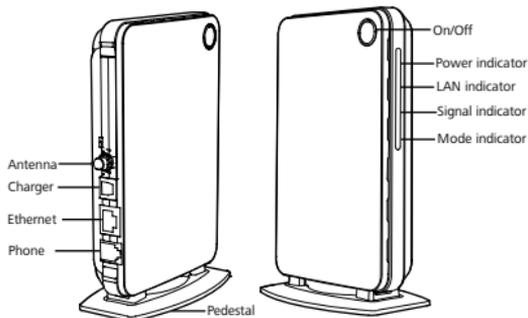


# 1 Quick Start

## Note

The supported functions and displayed appearance are subject to your product purchased. Pictures posted for illustration purpose only. Please refer to the product for actual appearance. For details of your product selection, consult your service provider.

## Appearance



## Installation

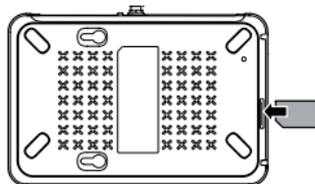
### Step 1: Insert the SIM Card



Warning

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

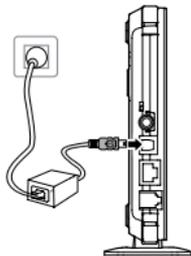
Insert the card into the slot completely, as show in the following figure.



To remove the card, press the card gently. Now the card will pop up automatically.

### Step 2: Connect to the Power Adapter

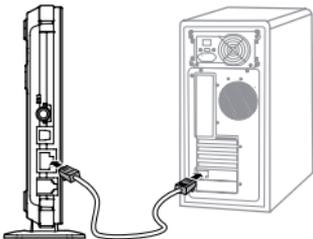
Use a power adapter that is compatible with the device; otherwise, the device may be damaged.



## ■ Installation

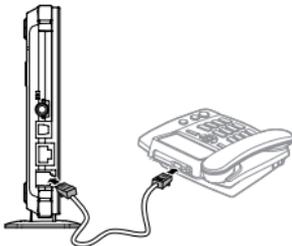
### Step 3: Connect to a PC

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.



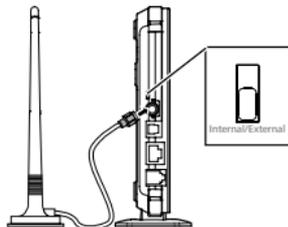
### Step 4: Connect to a Telephone Set

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 5: Connect the External Antenna (Optional)

Connect the external antenna cable with the antenna jack on the main unit. Screw the antenna to make sure that the antenna is tightly connected with the antenna jack.



#### Note

You can choose whether to use the external antenna. In the area covered with strong signal strength, you can switch to the antenna internal and uninstall the external antenna. In the area covered with weak signal strength, you can install the external antenna and switch to the antenna external. For details of antenna selection, consult your local dealer.

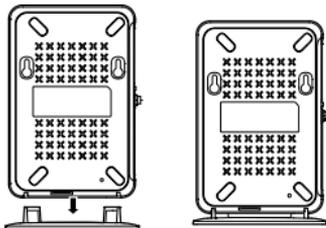
### Step 6: Place the device



Warning

To avoid electrical devices from interfering by the wireless signal, place electrical devices one meter away from the device.

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



## Power On/Off the Device

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

## Viewing the Running Status

Indicator	Status
Power	Steady on and in yellow, the device is switched on successfully.
LAN	Blinking: data is transmitting.
Signal	<ul style="list-style-type: none"> <li>Fast blinking in red: the card faults (the card does not exist or the PIN code is not verified);</li> <li>Steady on and in red: signal strength in level one (weak);</li> <li>Steady on and in yellow: signal strength in level two or three (middle);</li> <li>Steady on and in green: signal strength in level four or five (strong).</li> </ul>

## Make a Call

Indicator	Status
Mode	<ul style="list-style-type: none"><li>• Double blinking in green: searching the network;</li><li>• Blinking in green: registering with the 2G network;</li><li>• Steady on and in green: 2G data service connected;</li><li>• Fast blinking in green: Downloading the upgrade mode;</li><li>• Blinking in blue: registering with the 3G network;</li><li>• Steady on and in blue: WCDMA data service connected;</li><li>• Steady on and in cyan: HSPA data service connected.</li></ul>

## Make a Call

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

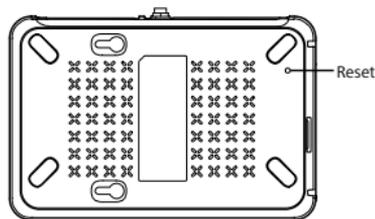
## Dial-up Access

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.

If you need to configure the other device-related parameters, you need to access the device management page (<http://192.168.1.1>). For details, please read on.

## 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.

### Note

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

## 2 Using the Management Page

### Log 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 the 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.

### 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 (Optional)	Configures the security settings.
Logout	Log out of the management page.

### Device Status

The following table shows the status information of the device.

Item	Description	
SIM/UIIM	 The SIM/UIIM card is valid.	 The SIM/UIIM card is not inserted or is invalid.
	WAN	 The PPP dial-up connection is established.

## Access the Internet

Item	Description
WCDMA	 The WCDMA network is available.  The WCDMA network is unavailable.

### Note

If the device is registered with other network modes, the corresponding network connection status is displayed.

SIG The signal strength from weak to strong is shown as follows:



## Access the Internet

**1** Click Connection.

### Note

- 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/UIM 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 of PIN code is enabled.
- If Auto validation of PIN code is enabled, the PIN code is recorded and automatically validated after each reboot.

- 2** If PPP Connection is Auto or On Demand, refresh the page to view the current network connection status.
- 3** If PPP Connection is Manual, click Connect / Disconnect to connect to or disconnect from the network.
- 4** Wait for several minutes, if you are prompted that the connection is successful, you can start the browser and enter the website address to access the Internet.

## View Configuration Information

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

- 1 Click Basic Status.
- 2 Click Advanced on the right part of the page to view the advanced status.
- 3 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

## View Configuration Information

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 carrier 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.

## ■ Validating Quick Setup

### 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.

The recommended configurations of the PC are as follows:

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

## Configure the Network Connection

The boot process of the FWT will last about 20 seconds. Then you can view the signal strength.

- 1 Choose My Network Places > Properties > Local Area Connection.
- 2 Right-click the Local Area Connection icon and select Properties.
- 3 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.

- 4 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

- 1 Start the IE browser, and then choose Tools > Internet Options.
- 2 Select the Connections tab, and then click LAN Settings.
- 3 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.

Icon	Description
	Click to access the System page.
	Click to access the SIM/UIM card setting page.
	Click to access the Mobile Network Settings page.
	Click to access the Dial-up Settings page.
	Click to access the DHCP Settings page.

## System Management

On the System page, you can change the password, upgrade the software, restore the factory defaults, restart the device, and view the version information.

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.

- 1 Click .
- 2 Enter the current password, and then enter the new password and confirm it.
- 3 Click **Modify**.

### Upgrading the device

- 1 Click .

- 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 whole process takes two to three minutes.
- The software programs for upgrading must come from the official website of Huawei or the official website of the carrier.
- 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.

说明

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

## Restarting the Device

- 1 Click  to access the Reboot page..
- 2 Click Reboot.

## Viewing the Version Information

Click  to access the Version page.

You can view the hardware version, software version, and the release time.

## SIM/UMI Settings

Click  to access the SIM/UMI Setting page.

When the device works in the ROM-SIM mode, the page is not available.

## Mobile Network Settings

### Enabling or Disabling the PIN Code

---

- 1 Click  .
- 2 Select Enable/Disable in the PIN Code Operation list box.
- 3 Enter the correct PIN code.
- 4 Click Apply.

### Changing the PIN Code

---

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

- 1 Click  .
- 2 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 validate PIN code function.

- 1 Click  .
- 2 Select Enable/Disable in the Auto Validate option button.
- 3 Enter the current PIN code.
- 4 Click Apply.

## Mobile Network Settings

Click  to access the Mobile Network Settings page, you can set the preference of the connection mode and band when the device searches a network.

### Setting the Preferred Mode and Band

---

- 1 Click  .

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

## 说明

- If the carrier provides only the 2G service and the preferred mode is configured as 3G only, you cannot access the Internet.
- If the carrier provides only the 3G service and the preferred mode is configured as 2G only, you cannot access the Internet.
- If the carrier 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.

- 4 In Manual mode, select the searched network and click Log on.

## Dial-up Settings



Click  to access the Dial-Up Settings page, you can configure the PPP settings and manage the profile settings.

### Configuring the PPP Settings

- 1 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.

## ■ DHCP Settings

- PPP Connection: Select the dial-up connection mode.
- 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 and you can create, edit, save, and delete a dial-up connection list.

### ◆ Creating a Profile

- 1 Enter the profile information in the text box according to the prompts.

- 2 Click Save.

### ◆ Changing a Profile

- 1 Select a profile to be changed in the Profile List drop-down list. Relevant information is displayed in the corresponding text box.
- 2 Enter the profile information.

- 3 Click Save.

### ◆ Deleting a Profile

- 1 Select a profile to be deleted in the Profile List drop-down list.
- 2 Click Delete.

## DHCP Settings



Click  to access the DHCP Setting 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 Disabled 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.

## 说明

- 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.

## 5 Security Settings (Optional)

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.

#### 说明

- 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 .
- 2 Select MAC Filter Mode.
- 3 Enter the MAC addresses of the clients and click Apply.

## LAN IP Filter

You can configure the device to block specific IP address so that they cannot be accessed from computers in the local network.

Click  to access the LAN IP Filter page.

### Adding an IP Address

---

- 1 Select the protocol and status.
- 2 Enter the IP address and corresponding port to be blocked from accessing the LAN.
- 3 Click Ok.

### Changing an IP Address

---

- 1 Click  in the Modification column. The corresponding IP address filter is displayed.
- 2 Change the contents as required.

- 3 Click Ok.

### Deleting an IP Address

---

Click  in the Modification column.

The corresponding IP address filter is deleted.

### Validating an IP Filter

---

- 1 Add a new IP address or select a record in the IP address filter table.
- 2 Select On for Status.
- 3 Click Ok.
- 4 Click Apply.

## Virtual Server

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

## ■ Virtual Server

Click  to access the Virtual Server page.

### Adding a Virtual Server

---

- 1 Select the protocol and status.
- 2 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.
- 3 Click Ok.

You can also add a virtual server in the following way:

- 1 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.

- 2 Enter the IP Address.

- 3 Click Ok.

### Changing a Virtual Server

---

- 1 Click  in the Modification column. The relevant virtual server is displayed.
- 2 Change the contents as required.
- 3 Click Ok.

### Deleting a Virtual Server

---

Click  in the Modification column. The corresponding virtual server is deleted.

### Validating a Virtual Server

---

- 1 Add a virtual server or select a record in the virtual server table.
- 2 Select On for Enabled.

- 3 Click Ok.
- 4 Click Apply.

## 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.

### 说明

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  .
- 2 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.

## ■ Remote Management

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  .
- 2 Select Enabled or 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?

- 1** The power indicator is on, and the device is normally connected with the power adapter. If the power indicator is off, you need to check whether the power adapter is normally connected.
- 2** If the signal strength indicator is off, you need to check whether the area is covered by the network.
- 3** 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".
- 4** 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.

- 5** 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.
- 6** 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, you need to reset the device to factory defaults.

### 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.

**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:

- 1 Choose Start > Run.
- 2 Enter regedit in the Open text box and then click OK.
- 3 Select parameters in the following directory:  
\\HKEY\_LOCAL\_MACHINE\\SYSTEM\\CurrentControlSet\\Services\\Tcpip.
- 4 Choose Edit > New > DWORD Value.
- 5 Rename New Value #1 to TcpWindowSize.
- 6 Right-click TcpWindowSize and then select Modify.
- 7 Select Decimal and enter 65535 in the Value data text box, and then click OK.

- 8 For the DWORD value of DefaultRcvWindow, do the same operations as that of TcpWindowSize.

# 7 Warnings and Precautions

## Electronic Device

- Turn off your device near high-precision electronic devices. The wireless device may affect the performance of these devices.
- Such devices include hearing aids, pacemakers, fire alarm systems, automatic gates, and other automatic-control devices can be affected. If you are using an electronic medical device, consult the device manufacturer to confirm whether the radio wave affects the operation of this device.

## Hospital

Pay attention to the following points in hospitals or health care facilities:

- Do not take your wireless device into the operating room (OR), intensive care unit (ICU), or coronary care unit (CCU).
- Do not use your wireless device at places for medical treatment where wireless device use is prohibited.

## Traffic Safety

- Please observe local laws and regulations on wireless device use. Do not use your wireless device while driving to avoid traffic accident.

- Secure the wireless device on its holder. Do not place the wireless device on the seat or other places where it can get loose in a sudden stop or collision.
- Use the wireless device after the vehicle stops at a safe place.
- Do not place the wireless device over the air bag or in the air bag outspread area. Otherwise, the wireless device may hurt you owing to the strong force when the air bag inflates.
- Observe the rules and regulations of airline companies. When boarding or approaching a plane, turn off the wireless device. In areas where wireless device use is prohibited, turn off the wireless device. Otherwise, the radio signal of the wireless device may disturb the plane control signals. Turn off your wireless device before boarding an aircraft.

## Storage Environment

- Do not place magnetic storage media such as magnetic cards and floppy disks near the wireless device. Radiation from the wireless device may erase the information stored on them.
- Do not put your wireless device, and other accessories in containers with strong magnetic field, such as an induction cooker and a microwave oven. Otherwise, circuit failure, fire, or explosion may occur.
- Do not leave your wireless device, and other accessories in a very hot or cold place. Otherwise,

## ■ Children Safety

malfunction of the products, fire, or explosion may occur.

- Do not place sharp metal objects such as pins near the earpiece. The earpiece may attract these objects and hurt you when you are using the wireless device.
- Do not subject your wireless device, and other accessories to serious collision or shock. Otherwise, wireless device malfunction, overheat, fire, or explosion may occur.
- Do not put your wireless device in the back pocket of your trousers or skirt to avoid wireless device damage while seated.

### Children Safety

- Put your wireless device, and other accessories in places beyond the reach of children. Do not allow children to use the wireless device, or other accessories without guidance.
- Do not allow children to touch the small fittings. Otherwise, suffocation or gullet jam can be caused if children swallow the small fittings.

### Operating Environment

- The wireless device, and other accessories are not water-resistant. Keep them dry. Protect the wireless device, or other accessories from water or vapor. Do

not touch the wireless device with a wet hand.

Otherwise, short-circuit and malfunction of the product or electric shock may occur.

- Do not use the wireless device in dusty, damp and dirty places or places with magnetic field. Otherwise, malfunction of the circuit may occur.
- When carrying or using the wireless device, keep the wireless device at least 20 centimeters away from your body, to avoid negative impact on your health caused by radio frequency leakage.
- On a thunder stormy day, do not use your wireless device outdoors or when it is being charged.
- The wireless device may interfere with nearby TV sets, radios and PCs.
- In accordance with international standards for radio frequency and radiation, use wireless device accessories approved by the manufacturer only.

### Cleaning and Maintenance

- Before you clean or maintain the wireless device, turn off it and disconnect it from the power adapter. Otherwise, electric shock or short-circuit may occur.
- Do not use any chemical detergent, powder, or other chemical agent (such as alcohol and benzene) to clean the wireless device and the other accessories. Otherwise, part damage or a fire can be caused. You can clean the wireless device and the other

accessories with a piece of soft antistatic cloth that is a little wet.

- Do not scratch the shell of the wireless device. Otherwise, the shed coating may cause skin allergy. Once it happens, stop using the wireless device at once and go to see a doctor.
- If the wireless device or any of its fittings does not work, turn to the local authorize service center for help.

## 8 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
UMTS	Universal Mobile Telecommunications System
WAN	Wide Area Network

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