

**Wonderful Communication, Mobile Life.**

Welcome to HUAWEI E220 HSDPA USB Modem.

HUAWEI E220 HSDPA USB Modem  
User Manual

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## **Notice**

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## Safety Precautions

Before using the wireless device, please read the safety precautions carefully and let your children know these, so that you can use your wireless device correctly and safely. For details, see the section "Warnings and Precautions".

	Do not switch on your wireless device when it is prohibited to use wireless device or when the wireless device may cause interference or danger.
	Do not use your wireless device while driving.
	Follow any rules or regulations in hospitals and health care facilities. Switch off your wireless device near medical apparatus.
	Switch off your wireless device in aircraft. The wireless device may cause interference to control signals of the aircraft.
	Switch off your wireless device near high-precision electronic devices. The wireless device may affect the performance of these devices.
	Do not attempt to disassemble your wireless device or its accessories. Only the qualified personnel are allowed to service or repair the wireless device.
	Do not place your wireless device and its accessories in containers with strong electromagnetic field.
	Do not place magnetic storage media near your wireless device. Radiation from the wireless device may erase the information stored on them.
	Do not put your wireless device in a high-temperature place or use it in a place with flammable gas such as a gas station.
	Keep your wireless device and its accessories away from children. Do not allow children to use your wireless device without guidance.
	Observe any laws or regulations on the use of wireless device. Respect others' privacy and legal rights when using your wireless device.

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# 1 Overview

Welcome to HUAWEI E220 HSDPA USB Modem (hereinafter referred to as E220). With E220, you can easily:

- Access the Internet
- Send or receive text messages
- Manage contacts

# 2

## Packing List

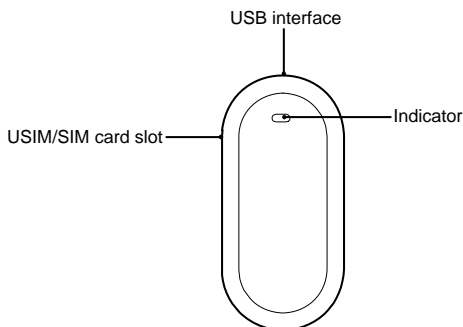
The E220 package box contains the following items:

- One E220 HSDPA USB Modem (including a PDF document of *User Manual* and a setup program)
- Two USB cables
- *Quick Start*

# 3

## Getting to Know Your E220

The following figure shows E220.



### Note:

The figure is for your reference only.

The indicator indicates the status of E220.

Indicator Status	Description
Off	E220 is powered off.
Blinking twice every 2.7 seconds (green)	E220 is searching for a network or no network is available.
Blinking once every 2.9 seconds (green)	The GSM network is normal.
Blinking once every 2.9 seconds (blue)	The WCDMA network is normal.
On (green)	The GPRS data service is established.
On (cyan)	The HSDPA data service is established.
On (blue)	The WCDMA data service is established.



# 4 Getting Started

## Computer Configuration Requirements

---

To use E220, your PC is required to have:

- CPU: Pentium 4, 1 GHz or above
- Memory: 128 MB RAM or above
- Hard disk: 50 MB or above
- Operating system: Windows XP, Windows 2000 or Windows Vista
- USB modem interface: USB 2.0 full speed
- Display resolution: 800 × 600 or above; 1024 × 768 is recommended

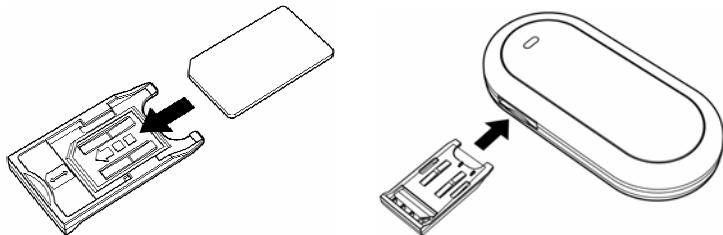
### Note:

Make sure that the configuration of your PC meets the requirements. Otherwise, improper configuration may degrade the performance of your PC.

## Preparing E220

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1. Take out E220 from the protective cover.
2. Take out the USIM/SIM card slot from E220. Then insert the USIM/SIM card into the USIM/SIM card slot. Make sure that the USIM/SIM card is fully inserted.
3. Insert the USIM/SIM card slot into E220.



# 5 Installation

The installation procedures vary with the operating system. The following installation procedures are for your reference only.

Take the Windows XP operating system as an example.

## Note:

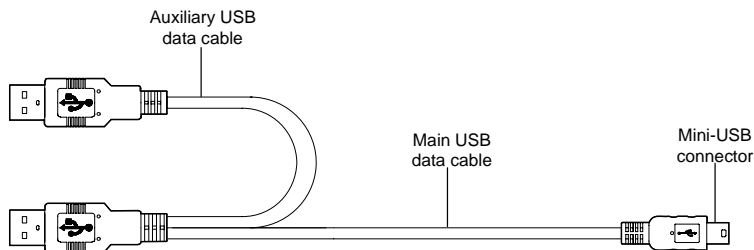
Before connecting E220 to the PC, power on the PC. Otherwise, the installation may be affected.

## Connecting E220 to the PC

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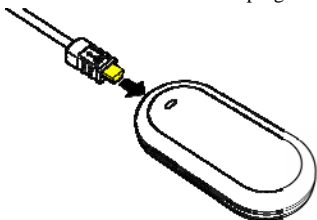
Use the dedicated USB cable to connect E220 to the PC.

The following figure shows the USB cable.

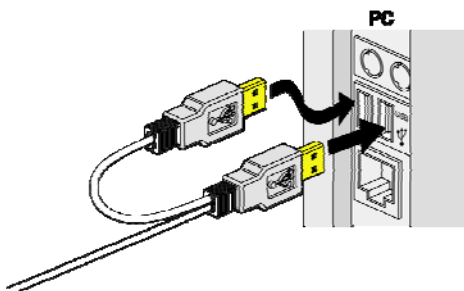


Do the following to connect E220 to the PC:

1. Connect the Mini-USB plug of the USB cable to the USB interface of E220.




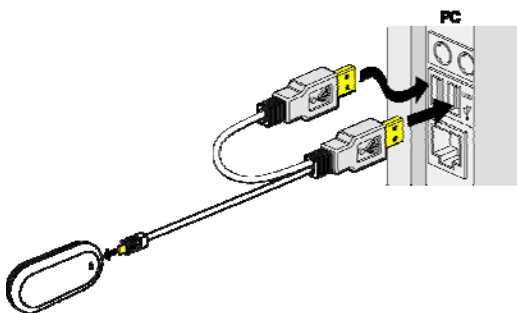
2. Insert the main plug and auxiliary plug to the USB interfaces of the PC.



**Note:**

The PC can supply power for E220 through the auxiliary USB data cable. Make sure that it is connected to the USB interface of the PC.

3. Windows XP auto detects and recognizes E220 and displays  on the lower right corner, indicating that E220 is connected successfully.



## Installing the Mobile Connect Management Program

1. Connect E220 to the PC.
2. The setup program auto runs. Then the E220 installation interface appears.

**Note:**


If the auto-run program does not start, double-click the **AutoRun.exe** file in the drive path to run it.

3. Select the language in the **Choose Language** dialog box and click **Next**.

4. Follow the remaining instructions.
5. Click **Finish** to complete the installation.

**Note:**

Do not disconnect E220 during the installation.


6. When the installation completes, the shortcut icon  of the **Mobile Connect** management program (hereinafter referred to as Mobile Connect) appears on the desktop.

## Disconnecting E220 from the PC

---

Before disconnecting E220, stop it through the hardware removing function of Windows.

Do the following:

1. Double-click  on the lower right corner of the PC screen and the **Safely Remove Hardware** dialog box is displayed.
2. Select **Huawei Mass Storage USB Device** to stop E220.
3. After the system prompts you that it is safe to remove the device, disconnect E220.

## Uninstalling Mobile Connect

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Uninstall Mobile Connect through the **Add or Remove Programs** function of Windows.

# 6

## Introduction to Mobile Connect

### Launching Mobile Connect

---

1. Connect E220 to the computer and Mobile Connect is auto launched.
2. If you are required to enter the Personal Identification Number (PIN) code, enter the correct one and click **OK**.

If you enter wrong PIN codes three times consecutively, your USIM/SIM card is blocked. In this case, use the PIN Unlocking Key (PUK) code to unblock it.

If you enter wrong PUK codes ten times consecutively, your USIM/SIM card is disabled. In this case, contact your service provider.

#### Note:

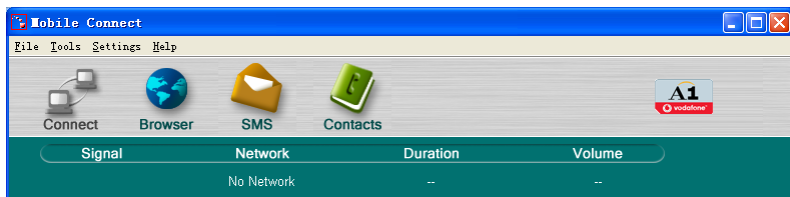
The service provider provides the PIN code and the PUK code. For details about how to modify, enable or disable the PIN code, refer to "Managing the PIN Code".

### Introduction to the Home Screen

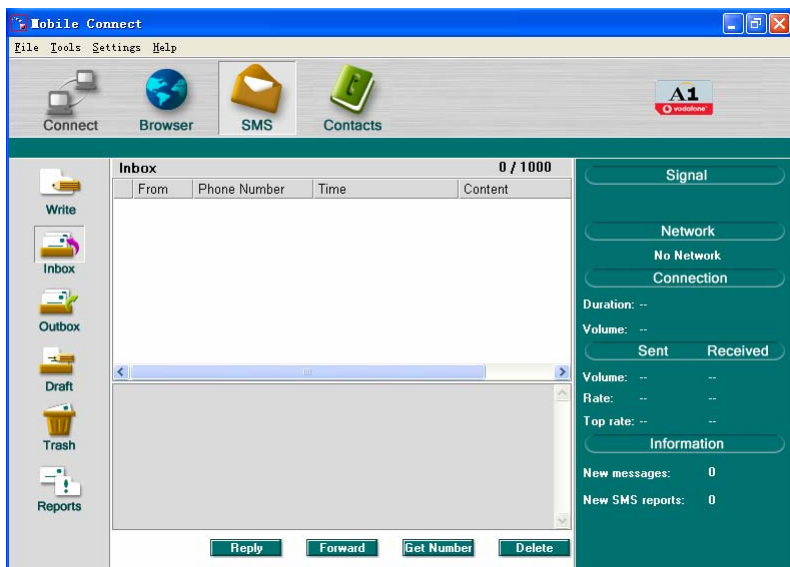
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#### Overview of the Home Screen

After Mobile Connect is launched, the home screen is displayed as follows:







You can maximize the screen.



## Icons and Shortcut Keys

The following table lists the icons and corresponding shortcut keys of Mobile Connect.

Icon/Shortcut Key	Description
 /F2	Connect to/Disconnect from the network.
 /F3	Launch the IE.
 /F5	Display the <b>SMS</b> interface.
 /F6	Display the <b>Contacts</b> interface.

## Status Information

The status information shown on the right panel varies with the ongoing service. The following two tables list the status information and description.

### When the screen is in the minimized status:

Status Information	Description
Signal	The network type and signal strength. The more the bars are, the stronger the signal strength is.
Network	Service provider information.
Duration	The duration of the current data connection.
Volume	The volume of the current data connection.

### When the screen is in the maximized status:

Status Information	Description
Signal	The network type and the signal strength.
Network	Service provider information.
Connection	The current connection information: <ul style="list-style-type: none"><li>• Duration</li><li>• Volume</li></ul>
Sent      Received	<ul style="list-style-type: none"><li>• Sent volume, rate, and the top rate</li><li>• Received volume, rate, and the top rate</li></ul>
Information	<ul style="list-style-type: none"><li>• New messages: The number of new messages. If there is a new message, the number blinks.</li><li>• New SMS reports: The number of new message reports. If there is a new message report, the number blinks.</li></ul>

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## Menu

- 1 File
  - 1.1 Connect/Disconnect
  - 1.2 Import Contacts
    - 1.2.1 From File
    - 1.2.2 From USIM/SIM Card
  - 1.3 Export Contacts
    - 1.3.1 To File
    - 1.3.2 To USIM/SIM Card
  - 1.4 Import Message from USIM/SIM Card
  - 1.5 Exit
- 2 Tools
  - 2.1 Open Browser
  - 2.2 SMS
  - 2.3 Contacts
  - 2.4 Volume Statistic
  - 2.5 Diagnostics
- 3 Settings
  - 3.1 Choose Network
    - 3.1.1 Auto
    - 3.1.2 Manual
  - 3.2 Choose Connection Type
    - 3.2.1 GPRS Preferred



3.2.2 3G Preferred

3.2.3 GPRS Only

3.2.4 3G Only

3.3 Band Selection

3.3.1 All Band

3.3.2 GSM900/1800/WCDMA2100

3.3.3 GSM1900

3.4 Modify PIN Code

3.5 PIN Code Protection

3.5.1 Validate

3.5.2 Enable

3.5.3 Disable

3.6 Options

3.7 SMS Settings

3.8 Network Connection Settings

4 Help

4.1 HUAWEI Online Support

4.2 About

# 8

## Internet Service

### Network Connection Settings

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#### Creating a Profile

Select **Settings > Network Connection Settings....** Then do the following:

Step	Procedure
1	Click <b>New</b> .
2	Enter the profile name.
3	Enter the APN, IP, authentication, DNS, WINS, and authentication protocol.
4	Click <b>Save</b> .

---

#### Note:

For details of network connection settings, consult your service provider.

#### Deleting a Profile

Select **Settings > Network Connection Settings....** Then, do the following:

Step	Procedure
1	In the <b>Choose Profile Name</b> field, select the profile.
2	Click <b>Remove &gt; OK</b> .

---

#### Modifying a Profile

Select **Settings > Network Connection Settings....** Then, do the following:




Step	Procedure
1	In the <b>Choose Profile Name</b> field, select the profile.
2	Click <b>Modify</b> .

---

Step	Procedure
3	Modify the profile.
4	Click <b>Save</b> .

## Accessing the Internet

You can access the Internet through a 3G or GPRS connection. Select **Settings > Network Connection Settings....** Then do the following:

Step	Procedure
1	In the <b>Choose Profile Name</b> field, select the profile and click <b>OK</b> .
2	Click  to establish the 3G connection or the GPRS connection.
3	After a prompt is displayed indicating that the connection is established, click  or launch the browser of the operating system. Then you can access the Internet.
4	Click  to disconnect the connection.

When the connection is established, details of the network connection are displayed as follows:

- The current connection duration
- The data volume of the current connection
- The volume, rate and the top rate of the sent and received data

## Volume Statistic

You can view the details of the volume statistic.

Select **Tools > Volume Statistic...** to view:

- **Last Volume Statistic:** the volume of the last connection, including the sent volume, the received volume, and the duration
- **Total Volume Statistic:** the volume of all connections, including the sent volume, the received volume, and the duration
- **Last Reset Time:** the last reset time


- **Reset:** Click **it to** reset

**Note:**

- The volume statistic is for your reference only.
- If you do not perform the reset operation, the last reset time is null.

## Creating a Message

---

Click  or select **Tools > SMS**, the **SMS** interface is displayed.

Step	Procedure
1	Click <b>Write</b> and the <b>Write</b> interface is displayed.
2	<p>Enter the phone number by one of the following ways:</p> <ul style="list-style-type: none"><li>• Enter the phone number: In the <b>Contacts</b> field, enter the phone number and use the semicolon to separate phone numbers.</li><li>• Select the contact: Click <b>Contacts</b>. Select one or more contacts and click <b>OK</b>. In the pop-up dialog box, select the phone numbers and click <b>OK</b>.</li></ul> <p><b>Note:</b></p> <ul style="list-style-type: none"><li>• You can enter a phone number or select a contact.</li><li>• To select several contacts, press and hold the <b>Shift</b> key or the <b>Ctrl</b> key.</li><li>• To select several contacts, select the <b>Apply to all items</b> check box to simplify the procedures.</li></ul>
3	<p>Write the message.</p> <p><b>Note:</b></p> <p>On the upper right corner of the interface, the number of remaining characters and the number of the message is split are displayed.</p>
4	<ul style="list-style-type: none"><li>• Click <b>Send</b> to send the message. After the message is sent, it is auto saved to the Outbox. If the sending fails, a prompt is displayed asking whether to send it again. If you cancel the sending, the message is auto saved to the Outbox.</li><li>• Click <b>Save</b> to save the message to the Draft.</li><li>• Click <b>Clear</b> to clear the phone number and the message.</li></ul>

---

## Note:

- Mobile Connect supports the group sending function. You can send a message to up to 20 phone numbers.
- Each message can contain 70 Chinese characters or 160 English letters. If a message contains more than 70 Chinese characters or 160 English letters, it is split into several messages and sent one by one.
- You can follow the above-mentioned two ways to enter the phone number as the message recipient.

## Inbox

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The Inbox stores received messages. It can store up to 1,000 messages.

- If the Inbox is full and there is a new message, the oldest message is auto moved to the Trash.
- If there is an unread message, the number is displayed on the right panel of the home screen.



On the **SMS** interface, click **Inbox** to access the Inbox.

### Viewing a Message

You can view a message in the Inbox.

Step	Procedure
1	Click  or select <b>Tools</b> > <b>SMS</b> . The <b>SMS</b> interface is displayed.
2	Click <b>Inbox</b> to access the Inbox. Double-click the message to view details.

There are two types of icons in the Inbox:


- : Unread messages
- : Read messages

You can view a message upon its arrival.

If there is a new message, you can hear an alert tone or view an alert window. For details, refer to "System Settings".

### With the alert tone function enabled:

If there is a new message, you can hear the alert tone.

Step	Procedure
1	Click  or select <b>Tools &gt; SMS</b> . The <b>SMS</b> interface is displayed.
2	Click <b>Inbox</b> to access the Inbox. Double-click the message to view details.

### With the alert window function enabled:

If there is a new message, you can see the alert window.

Click	To...
<b>View</b>	View details of the message.
<b>Close</b>	Close the alert window.

### Replying to a Message

You can reply to a message in the Inbox.

Step	Procedure
1	Select or double-click the message to view details. Then click <b>Reply</b> .
2	The phone number of the sender is displayed in the <b>Contacts</b> field. You can edit the phone number.
3	Write the message.
4	Click <b>Send</b> .

### Forwarding a Message

You can forward a received message.

Step	Procedure
1	Select or double-click the message to view details. Then click <b>Forward</b> .
2	Enter the phone number of the recipient, or click <b>Contacts</b> to select the contact.
3	Details of the message are displayed in the text box. You can edit it.
4	Click <b>Send</b> .

## Deleting a Message

You can delete a received message.

Step	Procedure
1	<ul style="list-style-type: none"><li>• Select one or more messages.</li><li>• Double-click the message to view details.</li></ul>
2	Click <b>Delete</b> . The message is moved to the Trash.

## Saving a Phone Number

You can save the phone number of a received message as a contact.

Step	Procedure
1	Select or double-click the message to view details and click <b>Get Number</b> .
2	The <b>New</b> interface is displayed and the phone number of the message is displayed in the <b>Mobile Number</b> field.
3	Enter the information of the phone number.
4	Click <b>Save</b> .

## Exporting a Message


You can export received messages to a file. The file must be .txt or .csv files.

Step	Operation
1	Select one or more messages.
2	Right-click the window and select <b>Export to file</b> .
3	Select the path and enter the file name.
4	Click <b>Save</b> .

## Locking/Unlocking a Message

To avoid unintentional deletion, you can lock a message in the Inbox. In addition, you can unlock a message.



Step	Operation
1	Select one or more messages.
2	Right-click the window and select <b>Lock</b> or <b>Unlock</b> .
<b>Note:</b>	
A locked message is marked by  .	

## Outbox

The Outbox stores sent messages. The Outbox can store up to 1,000 messages.

If the Outbox is full and there is a new message, the oldest message is auto moved to the Trash.

On the **SMS** interface, click **Outbox** to access the Outbox.

### Viewing a Message

You can view a message in the Outbox.

Step	Procedure
1	You can view all the messages in the Outbox.
2	Double-click the message to view details.

### Sending a Message

In the Outbox, you can send a message.

Step	Procedure
1	<ul style="list-style-type: none"> <li>Select or double-click the message to view details. Then click <b>Send</b>.</li> <li>You can send a message to several recipients each time. Select several messages and click <b>Send</b>.</li> </ul>
2	The phone number of the recipient is displayed in the <b>Contacts</b> field. You can edit the phone number.
3	Write the message.
4	Click <b>Send</b> .

## Forwarding a Message

In the Outbox, you can forward a sent message.

Step	Procedure
1	Select or double-click the message to view details. Then click <b>Forward</b> .
2	Enter the phone number of the recipient in the <b>Contacts</b> field, or click <b>Contacts</b> to select the contact.
3	Details of the message are displayed. You can edit the message.
4	Click <b>Send</b> .

## Deleting a Message

You can delete a message.

Step	Procedure
1	<ul style="list-style-type: none"><li>• Select one or more messages and click <b>Delete</b>.</li><li>• Double-click the message to view details and click <b>Delete</b>.</li></ul>
2	The message is moved to the Trash.

## Saving a Phone Number

You can save the phone number of a sent message as a contact.

Step	Procedure
1	Select or double-click the message to view details and click <b>Get Number</b> .
2	The <b>New</b> interface is displayed and the phone number of the message is displayed in the <b>Mobile Number</b> field.
3	Enter the information of the phone number.
4	Click <b>Save</b> .


## Exporting a Message

You can export sent messages to a file. The file must be .txt or .csv files.

Step	Operation
1	Select one or more messages.
2	Right-click the window and select <b>Export to file</b> .
3	Select the path and enter the file name.
4	Click <b>Save</b> .

## Locking/Unlocking a Message

To avoid unintentional deletion, you can lock a message in the Outbox. In addition, you can unlock a message.

Step	Procedure
1	Select one or more messages.
2	Right-click the window and select <b>Lock</b> or <b>Unlock</b> .
<b>Note:</b>	
A locked message is marked by  .	

## Draft

You can save a message as a draft. The Draft can store up to 1,000 messages.

If you save a message as a draft, only the content of the message is saved.

On the **SMS** interface, click **Draft**.

## Editing a Message

You can edit a draft.

Step	Procedure
1	<ul style="list-style-type: none"><li>• Select the draft and click <b>Edit</b>.</li><li>• Double-click the draft.</li></ul>
2	On the <b>Write</b> interface, edit the draft and click <b>Send</b> , <b>Save</b> , or <b>Clear</b> .

## Deleting a Message

You can delete a draft.

Step	Procedure
1	Select one or more drafts and click <b>Delete</b> .
2	The draft is moved to the Trash.
3	Click <b>Save</b> .

## Trash

The Trash stores messages removed from the Inbox, Outbox, and Draft. The Trash can store up to 1,000 messages.

If the Trash is full and there is a new message, the oldest message is auto deleted.

On the **SMS** interface, click **Trash**.

## Restoring a Message

You can restore a message.

Step	Procedure
1	Select one or more messages and click <b>Restore</b> .
2	The message is restored.

## Deleting a Message

If you delete a message from the Trash, it is permanently deleted.

Step	Procedure
1	Select one or more messages and click <b>Delete</b> .
2	Click <b>OK</b> .

## Exporting a Message

You can export messages to a file. The file must be .txt and .csv files.

Step	Procedure
1	Select one or more messages.
2	Right-click the window and select <b>Export to file</b> .
3	Select the path and enter the file name.
4	Click <b>Save</b> .

## Reports

The Reports can store up to 1,000 delivery reports. If the Reports is full and there is a new report, the oldest report is auto deleted.

### Deleting a Report

On the **SMS** interface, click **Reports**.

Step	Procedure
1	Select one or more reports and click <b>Delete</b> .
2	Click <b>OK</b> .

### Exporting a Report

You can export reports to a file. The file must be .txt or .csv files.

Step	Procedure
1	Select one or more reports.
2	Right-click the window and select <b>Export to file</b> .
3	Select the path and enter the file name.
4	Click <b>Save</b> .

# Message Import Management

You can import messages to Mobile Connect from the USIM/SIM card.

Step	Procedure
1	Select <b>File &gt; Import Message from USIM/SIM Card...</b>
2	Messages are imported to the Inbox, Outbox, or Draft of Mobile Connect respectively.

## SMS Settings

Select **Settings > SMS Settings** and the **SMS settings** interface is displayed.

Option	Description
Reports	You can enable or disable this function. With the function enabled, if you send a message successfully, you can receive a delivery report.
Use same SMS centre for reply	Set the recipient to use the same SMS center number to reply the message.
SMS Bearer Domain	Set the bearer domain of sending a message. <ul style="list-style-type: none"><li>• Circuit Switched (CS): messages are sent through the CS domain.</li><li>• Packet Switched (PS): messages are sent through the PS domain.</li></ul>
Validity	Set the validity period for a message saved in the SMS center.
SMC Number	The SMS center number is supplied with the USIM/SIM card. After you insert the USIM/SIM card, the field is auto filled. If the field is null or you delete the number unconsciously, contact your service provider to retrieve the number.

### Note:

If there is no capacity for delivery reports in the USIM/SIM card, the request status report function is invalid, contact your service provider for details.

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## Contacts

Mobile Connect can save up to 1,000 contacts.

You can create, modify, or delete contacts. You can send a message or make a call to the contact. You can also import or export contacts.

### Managing Contacts

---

Click  or select **Tools > Contacts**. The **Contacts** interface is displayed.

#### Creating a Contact

Do the following:

Step	Procedure
1	Click <b>New</b> .
2	Enter the content in the <b>Name</b> , <b>Mobile Number</b> , <b>Home Number</b> , <b>Office Number</b> , <b>E-mail</b> , and/or <b>Comments</b> fields.
3	Click <b>Save</b> .

#### Modifying a Contact

Do the following:

Step	Procedure
1	Select or double-click the contact and click <b>Edit</b> .
2	Modify the contact.
3	Click <b>Save</b> .

## Deleting a Contact

Do the following:

Step	Procedure
1	Select one or more contacts. Then click <b>Delete</b> .
2	Click <b>OK</b> .

## Sending a Message

You can send a message to a contact. Do the following:

Step	Procedure
1	Select one or more contacts.
2	Click <b>Send</b> . Mobile Connect retrieves the phone number and the <b>Write</b> interface is displayed.
3	The phone number is displayed in the <b>Contacts</b> field. Write the message and click <b>Send</b> .

## Searching for a Contact

You can search for a contact. Do the following:

Step	Procedure
1	Click <b>Search</b> .
2	<ul style="list-style-type: none"><li>• Select a field item such as <b>Name</b>, <b>Mobile</b>, <b>Family</b>, <b>Office</b> or <b>E-mail</b> from the dropdown list in the <b>Condition</b> area.</li><li>• Enter the content in the <b>Value</b> text box.</li><li>• Select <b>Match Whole Word Only</b> and/or <b>Match Case</b> in the <b>Matching Type</b> field.</li></ul>
3	Click <b>Search Now</b> to start searching.
4	Click <b>Stop Search</b> to stop searching.



# Importing/Exporting Contacts

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## Importing a Contact

You can import contacts to Mobile Connect from the USIM/SIM card or a file.

### Importing a Contact from a File

You can import contacts to Mobile Connect from a file. The file must be .csv files.

Step	Procedure
1	Select <b>File &gt; Import Contacts &gt; From File</b> .
2	In the <b>Open</b> dialog box, select the file.
3	Click <b>Open</b> to import the file to Mobile Connect.

### Importing a Contact from the USIM/SIM Card

You can import contacts to Mobile Connect from the USIM/SIM card.

Step	Procedure
1	Select <b>File &gt; Import Contacts &gt; From USIM/SIM Card</b> .
2	You can select: <ul style="list-style-type: none"><li>• <b>Move Import:</b> Contacts in the USIM/SIM card are deleted.</li><li>• <b>Copy Import:</b> Contacts in the USIM/SIM card are retained.</li></ul>
3	Click <b>OK</b> . Then select <b>Mobile</b> , <b>Home</b> or <b>Office</b> and set whether to apply the operations to all items. Then click <b>OK</b> .
4	After the importing completes, a prompt is displayed to indicate the result.

## Exporting a Contact

You can export contacts from Mobile Connect to the USIM/SIM card or a file.

### Exporting a Contact to a File

Do the following:

Step	Procedure
1	Select <b>File &gt; Export Contacts &gt; To File</b> . Click <b>OK</b> in the pop-up dialog box.
2	In the <b>Save as</b> dialog box, enter the file name with .csv as its extension.
3	Click <b>Save</b> .

## Exporting a Contact to the USIM/SIM Card

Do the following:

Step	Procedure
1	Select one or more contacts. <b>Note:</b> If you do not select a contact, the function is unavailable.
2	Select <b>File &gt; Export Contacts &gt; To USIM/SIM Card</b> .
3	Click <b>OK</b> .
4	After the exporting completes, a prompt is displayed to indicate the result.

### Note:

- The number of contacts that can be saved is determined by the capacity of the USIM/SIM card.
- If the contacts you are exporting exceed the USIM/SIM card capacity, Mobile Connect auto stops the operation.

# 11

## Settings and Information Query

### Selecting the Network

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E220 supports manual or auto search of the network. To set the search mode, select **Settings > Choose Network** and select either of the following options:

- Auto: E220 auto searches for a network and registers to the network.
- Manual: You can manually search for networks and select a network for E220 to register.

### Selecting the Connection Type

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Select **Settings > Choose Connection Type** to set the connect type.

Option	Description
GPRS Preferred	If possible, E220 selects the GPRS network.
3G Preferred	If possible, E220 selects the 3G network.
GPRS Only	E220 selects the GPRS network only.
3G Only	E220 selects the 3G network only.

### Selecting the Band

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You can set the working band for E220. After setting, E220 can work only in the preset working band.

Select **Settings > Band Selection**. Then you can select **All Band**, **GSM900/1800/WCDMA2100** or **GSM1900**.

# Managing the PIN Code

The PIN code can protect the USIM/SIM card from unauthorized use. The PIN code is supplied with the USIM/SIM card. You can change your PIN code. Also you can set whether to enter the PIN code when E220 starts up.

## Modifying the PIN Code

You can modify the PIN code. Do the following:

Step	Procedure
1	Select <b>Settings &gt; Modify PIN Code</b> .
2	Enter the current PIN code and the new PIN code, and then enter the new code again to confirm it.
3	Click <b>OK</b> .

## Validating the PIN Code

After launching Mobile Connect, you can still use the PIN code validation function. Do the following:

Step	Procedure
1	Select <b>Settings &gt; PIN Code Protection</b> .
2	Select <b>Validate</b> to enable the PIN code validation function. For details, refer to the descriptions on page 8.

## PIN Code Protection

You can enable or disable the PIN code when the E220 starts up.

Step	Procedure
1	Select <b>Settings &gt; PIN Code Protection</b> .
2	Select <b>Enable</b> or <b>Disable</b> . Enter the PIN code. <ul style="list-style-type: none"><li>• <b>Enable</b>: You need to enter the PIN code when E220 starts up.</li><li>• <b>Disable</b>: You do not need to enter the PIN code when E220 starts up.</li></ul>

# System Settings

The system settings include the startup mode of Mobile Connect, the alert mode for messages, and the standby/hibernate mode of the PC and so on.

Select **Settings > Options**.

## Setting Startup

.Click the **Startup** tab to set the following items

Option	Description
Launch application on Windows start up	Mobile Connect is launched along with the Windows.
Start main window minimized	The Mobile Connect window is minimized on startup.
Check the unread message(s) while starting	On launching, Mobile Connect checks the unread messages in the USIM/SIM card and E220.

### Note:

Click **Default** to restore the settings to the default values, namely, only the **Check the unread message(s) while starting** check box is selected.

## Setting SMS Alerts Function

Select the **SMS Alerts** tab to set the following items.

Option	Description
Alert window	Select the <b>Alert window</b> check box. If there is a new message, the alert window is displayed. You can: <ul style="list-style-type: none"><li>• Click <b>View</b> to view details.</li><li>• Click <b>Close</b> to close the alert window.</li></ul>
Alert tone	After you select a sound file, if there is a new message, the sound file is played. <ul style="list-style-type: none"><li>• Click <b>Browse</b> to select the sound file.</li><li>• Click <b>Play</b> to pre-listen to the sound file.</li></ul>

**Note:**

- The SMS sound files must be \*.wav or \*.mid files.
- If you click **Default**, all the items in the **Prompts** tab are restored to the default values. That is, both the **Alert window** check box and the **Alert tone** check box are selected.

## Setting the Standby/Hibernate Mode

Click the **Standby/Hibernate** tab to set the following items.

Option	Description
Prevent Standby/Hibernate	Prevent the PC from turning to the standby or hibernate mode.
Allow Standby/Hibernate	Allow the computer to turn to the standby or hibernate mode.

**Note:**

If you click **Default**, the standby/hibernate status recovers to its default value, that is, allow standby or hibernate.

## Diagnostic

You can inquire E220 and the USIM/SIM card.

Select **Tools > Diagnostics**:

- Messages in USIM/SIM Card: The format is "XX/YY". XX indicates the number of messages, and YY indicates the capacity of the USIM/SIM card.
- Contacts in USIM/SIM Card: The format is "XX/YY". XX indicates the number of contacts, and YY indicates the capacity of the USIM/SIM card.
- IMEI Number: the IMEI number of E220.
- API Version: the API version.
- Firmware Version: the board software version of E220.
- Hardware Version: the hardware version of E220.

# 12 **FAQ**

## **How to judge whether E220 is correctly connected to the PC?**

After you connect E220 to the PC, two device icons are displayed in the device manager, namely, "HUAWEI Mobile Connect-3G Modem" and "HUAWEI Mobile Connct-3G PC UI Interface".

If a yellow exclamatory mark or other signs are displayed in front of the icons, it indicates that E220 is not correctly connected. You need to connect E220 again.

## **What to do if E220 fails to connect to the Internet?**

1. Make sure that E220 is in the service area and the network signal is normal.
2. Make sure you have subscribed to the wireless access service. For details, consult your service provider.
3. If you have subscribed to the wireless access service, refer to "Internet Service" to configure the network settings.

## **Only part of the message is displayed after I use the "Paste" function to edit it. Why?**

A text message can contain up to 1,000 characters. If the size of the pasted part exceeds the limit, the exceeding part is auto deleted.

## **When there is a new message, no alert window is displayed. Why?**

Make sure that you have enabled the alert window function.

Select **Settings > Options**. Then select the **Prompt** tab and select the **Display alerts when a message is received** check box in **Message Alerts Settings**.

## **After Mobile Connect is launched, the system prompts "There are some unread messages in USIM/SIM card. Do you want to import them to the computer?" After I select "No", what if I want to import the message?**

Select **File > Import Message from USIM/SIM Card** to import messages to Mobile Connect from the USIM/SIM card.

## **I cannot paste the phone number. Why?**

Only "0123456789#\*+" is valid. Make sure that all digits of the phone number are valid.

# 13

## Warnings and Precautions

Please read the safety information carefully to ensure the correct and safe use of your wireless device.

### General Recommendations for Use

Always handle your wireless device with care and keep it in a clean and dust-free place. Do not expose your wireless device to open flames or lit tobacco products.

- Always keep your wireless device dry.
- Do not drop, throw or try to bend your wireless device.
- Do not paint or scratch your wireless device.
- Do not attempt to disassemble your wireless device. Doing so will void warranty. Only authorized personnel are allowed to do so.
- This product requires a minimum distance of 1.5 cm from the body when in operation.
- Keep your wireless device in normal temperature. Your wireless device can only operate between -5°C and +55 °C.
- Use approved accessories only. Do not connect your wireless device to any incompatible products.

### Obey Laws and Regulations

Do not operate your wireless device where it may be unsafe to do so or where you are required not to do so.

To deactivate your wireless device, close all applications using the wireless device first and then remove the wireless device from your PC.

Obey all local laws, regulations, rules, orders, signs and notices while using the wireless device. Signs about the use of mobile phones should also be obeyed as referring to other wireless equipment including wireless devices.

### Deactivate in Explosive Areas

Deactivate your wireless device where the air is potentially explosive. It is rare, but your PC could generate sparks.



## **Deactivate in Blasting Areas**

Deactivate your wireless device where blasting is in progress. Remote-controlled RF devices are often used at construction sites to set off blasting.

## **Deactivate in Aircrafts**

Deactivate your wireless device before boarding or in any aircraft. Wireless devices can cause interference in aircrafts.

## **Deactivate at Hospitals**

Obey regulations or rules at hospitals. Deactivate your wireless device near medical equipment. Wireless devices can cause interference to cardiac pacemakers, implanted defibrillators or other medical equipment.

## **Deactivate near Hearing Devices**

Deactivate your wireless device near hearing devices. People with hearing aids may experience interfering noises near wireless devices.

## **Recommendations for Children**

Do NOT allow children to play with your wireless device. They could hurt themselves or others, or could accidentally damage the wireless device. Your wireless device contains small parts with sharp edges that may cause an injury or a choking hazard.

## **Deactivate While Driving**

Do not use the wireless device while driving.

## **Immunity to Interference**

Your wireless device is immune to interferences caused by audible signals.

## **Cleaning and Maintenance**

- Before you clean or maintain the wireless device, close all applications using wireless device and remove your wireless device from your PC.
- Clean your wireless device with a piece of soft antistatic cloth.
- If the wireless device or any of its accessories does not work, turn to an authorized service center for help.

## **Environmental Protection**

Observe the local regulations regarding the disposal of your packaging materials, old wireless device and its accessories. Please promote their recycling.

## **SIM/USIM Cards**

While inserting or removing the SIM card, protect yourself against electrostatic discharge (ESD). Do not touch the connector of the SIM card. As a precaution, always make sure that the wireless device is already in your hand before you insert or remove the SIM card.

## **Restart on ESDs**

Software will attempt to re-initialize a connection once a substantial electrostatic discharge causes the device to reset. If the software is not operational after an ESD, restart the modem software application.

## **Agency/Regulatory Information**

The wireless device is approved for use in many regions of the world. In these regions, the device meets all radio frequency exposure requirements. The following approvals and notices apply in specific regions as noted.

## **CE Approval (European Union)**

The wireless device is approved to be used in the member states of the EU. Huawei declares that the wireless device is in compliance with the essential requirements and other relevant provisions of the Radio and Telecommunications Terminal Equipment Directive 1999/5/EC (R&TTE Directive).

## **Radio Frequency Exposure**

To ensure compliance at all times with the R&TTE Directive\* 1999/5/EC, the wireless device can be held in the hand but still requires a minimum distance of 1.5 cm from the body when in operation. For body-worn use, it must be suitably mounted so that it is at least 1.5 cm away from the body. Mounting accessories (for example, belt clips) cannot be made of metal. Do not put the wireless device in your pocket.

\* The general public RF exposure limits referenced in the R&TTE Directive are consistent with the published Guidelines of the International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998. ICNIRP is a formally recognized non-governmental organization in Non-Ionising Radiation Protection for the World Health Organisation (WHO), the International Labour Organisation (ILO) and the European Union (EU). For more information, visit the ICNIRP website at [www.icnirp.de](http://www.icnirp.de).

## **Certification Information (SAR)**

**THIS DEVICE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO FREQUENCY ELECTROMAGNETIC FIELD.**

Your wireless device is a low-power radio transmitter and receiver. When it is running, it emits low levels of radio frequency energy (also known as radio waves or radio frequency fields).

Governments around the world have adopted comprehensive international safety guidelines, developed by scientific organizations, e.g. ICNIRP (International Commission on Non-Ionizing Radiation Protection) and IEEE (Institute of Electrical and Electronics Engineers Inc.), through periodic and thorough evaluation of scientific studies. These guidelines establish permitted levels of radio wave exposure for the public. The levels include a safety margin designed to assure the safety of all persons, regardless of age and health, and to account for any variations in measurements.

Specific Absorption Rate (SAR) is the unit of measurement for the amount of radio frequency energy absorbed by the body when using a wireless device. The SAR value is determined at the highest certified power level in laboratory conditions, but the actual SAR level of the wireless device while operating can be well below the value. This is because the wireless device is designed to use the minimum power required to reach the network.

All models of Huawei's wireless device are designed to meet radio frequency exposure guidelines such as European Council Recommendation and Federal Communications Commission Notice (United States).

**European Council Recommendation:** Before a wireless device model is available for sale to the public, it must be tested according to the technical standard-EN 50361 and not exceed the limit established by the European Council Recommendation: 1999/519/EC for safe exposure.

The SAR limit adopted by the 1999/519/EC is 2.0 watts/kilogram (W/kg) averaged over ten gram of tissue. The highest SAR value for this device type when tested is 1.20 W/kg.

[EN 50361 scope states "This basic standard applies to any electromagnetic field (EM) transmitting devices intended to be used with the radiating part of the equipment in close proximity to the human ear including mobile phones, cordless phones, etc. The frequency range is 300 MHz to 3 GHz. Therefore, the above text does not address primary use of the wireless device product.]

**Federal Communications Commission Notice (United States):** Before a wireless device model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure.

The SAR limit adopted by the USA and Canada is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The highest SAR value reported to the FCC and IC for this device type when tested for use is 0.59W/kg. [There is no reference to the specific reference standard or its applicability to the intended use of the product]

## FCC Statement

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 and with RSS-210 of Industry Canada. 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.

**Warning:**

Changes or modifications made to this equipment not expressly approved by HUAWEI may void the FCC authorization to operate this equipment.

# 14

## Acronyms and Abbreviations

### A

APN Access Point Name

### C

CPU Central Processing Unit

CS Circuit Switched

### D

DL Downlink

DNS Domain Name Server

### E

EDGE Enhanced Data rates for Global Evolution

### G

GPRS General Packet Radio Service

GSM Global System for Mobile communications

### H

HSDPA High Speed Downlink Packet Access

### P

PS Packet Switched

PIN Personal Identification Number

PUK PIN Unblocking Key

## **S**

**SIM**                      Subscriber Identity Module

## **U**

**UL**                      Uplink

**USB**                    Universal Serial Bus

**USIM**                   UMTS Service Identity Module

## **W**

**WCDMA**                Wideband Code Division Multiple Access

**WINS**                   Windows Internet Name Service