Wonderful Communication, Mobile Life.

Welcome to HUAWEI E220 HSDPA USB Modem.

 ${\bf HUAWEI~E220~HSDPA~USB~Modem}$

User Manual

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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.
1	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.
. s	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.
A	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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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

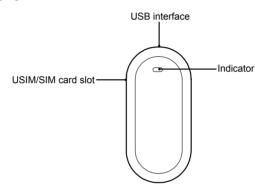
Packing List

The E220 package box contains the following items:

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

3 Getting to Know Your E220

The following figure shows E220.



Note:

The figure is for your reference only.

Indicator

This 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.

3 Getting to Know Your E220

Indicator Status	Description
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 or Windows 2000

· USB modem interface: USB 2.0 full speed

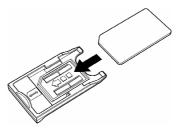
• Display resolution: 800×600 or above; 1024×768 is recommended

Note:

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

Preparing E220

- 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.



4 Getting Started

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.

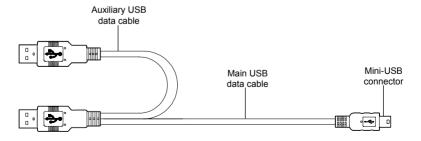
Note:

- For Windows XP, it is recommended to install patches such as Service Pack 2 or above.
- For Windows 2000, it is recommended to install patches such as Service Pack 4 or above
- Before connecting E220 to the PC, power on the PC. Otherwise, the installation may be affected.

Connecting E220 to the PC

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

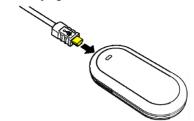
The following figure shows the USB cable.



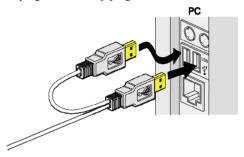
Do the following to connect E220 to the PC:

5 Installation

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



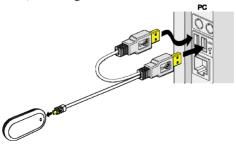
2 Insert the main plug and auxiliary plug to the USB interfaces of the PC.



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.

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



Installing the E220 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 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.

5 Installation

Uninstalling Mobile Connect

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

6 Introduction to Mobile

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 Unblocking 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

Overview of the Home Screen

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

6 Introduction to Mobile Connect



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.
3 /F3	Launch the IE.
/F5	Display the SMS interface.
Ø /F6	Display the Contacts 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.

6 Introduction to Mobile Connect

Status Information	Description
Connection	The current connection information:
	 Duration Volume Sent volume, received volume, rate, and the top rate
New messages	The number of new messages. If there is a new message, the number blinks.
New SMS reports	The number of new message reports. If there is a new message report, the number blinks.

7 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

7 Menu

- 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

B Internet Service

Network Connection Settings

Creating a Profile

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

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

Note:

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

Deleting a Profile

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

8 Internet Service

Step	Procedure
1	In the Choose Profile Name field, select the profile.
2	Click Remove > OK.

Modifying a Profile

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

Step	Procedure
1	In the Choose Profile Name field, select the profile.
2	Click Modify.
3	Modify the profile.
4	Click Save.

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 Choose Profile Name field, select the profile and click OK.
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.

9 sms

Sending or Receiving a Message

Creating a Message



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

Step Procedure

- 1 Click **Write** and the **Write** interface is displayed.
- 2 Enter the phone number by one of the following ways:
 - Enter the phone number: In the **Contacts** field, enter the phone number and use the semicolon to separate phone numbers.
 - Select the contact: Click Contacts. Select one or more contacts and click OK. In the pop-up dialog box, select the phone numbers and click OK. To select several contacts, select the Apply to all items check box to simplify the procedures.
- Write the message. On the upper right corner of the interface, the number of remaining characters and the number of the message is split are displayed.
- Click Send 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.
 - Click **Save** to save the message to the Draft.
 - · Click Clear to clear the phone number and the message.

9 SMS

Note:

- To select several contacts, press and hold the Shift key or the Ctrl key.
- 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

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

1 You can view a message in the Inbox

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

There are two types of icons in the Inbox:

- Unread messages
- Exact messages
- 2 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 Tools > SMS . The SMS interface is displayed.
2	Click Inbox 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	То
View	View details of the message.
Close	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 Reply .
2	The phone number of the sender is displayed in the Contacts field. You can edit the phone number.
3	Write the message.
4	Click Send.

Forwarding a Message

You can forward a received message.

9 SMS

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

Deleting a Message

You can delete a received message.

Step	Procedure
1	Select one or more messages.
	• Double-click the message to view details.
2	Click Delete . 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 Get Number .
2	The New interface is displayed and the phone number of the message is displayed in the Mobile Number field.
3	Enter the information of the phone number.
4	Click Save.

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 Export to file .
3	Select the path and enter the file name.
4	Click Save.

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 Lock or Unlock.

Note:

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.

9 SMS

Sending a Message

In the Outbox, you can send a message.

Step	Procedure
1	 Select or double-click the message to view details. Then click Send. You can send a message to several recipients each time. Select several messages and click Send.
2	The phone number of the recipient is displayed in the Contacts field. You can edit the phone number.
3	Write the message.
4	Click Send.

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 Forward .
2	Enter the phone number of the recipient in the Contacts field, or click Contacts to select the contact.
3	Details of the message are displayed. You can edit the message.
4	Click Send.

Deleting a Message

You can delete a message.

Step	Procedure
1	Select one or more messages and click Delete .
	• Double-click the message to view details and click Delete .
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 Get Number .
2	The New interface is displayed and the phone number of the message is displayed in the Mobile Number field.
3	Enter the information of the phone number.
4	Click Save.

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 Export to file.
3	Select the path and enter the file name.
4	Click Save.

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 Lock or Unlock.

Note:

A locked message is marked by



9 SMS

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	Select the draft and click Edit .
	• Double-click the draft.
2	On the Write interface, edit the draft and click Send, Save, or Clear.

Deleting a Message

You can delete a draft.

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

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 Restore .
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 Delete .
2	Click OK .

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 Export to file.
3	Select the path and enter the file name.
4	Click Save.

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.

On the SMS interface, click Reports.

Step	Procedure
1	Select one or more reports and click Delete .
2	Click OK .

9 SMS

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 Export to file.
3	Select the path and enter the file name.
4	Click Save.

Message Import Management

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

Step	Procedure
1	Select File > Import Message from USIM/SIM Card
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.

Option	Description
SMS Bearer	Set the bearer domain of sending a message.
Domain	• Circuit Switched (CS): messages are sent through the CS domain.
	 Packet Switched (PS): messages are sent through the PS domain.
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.

10 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 New.	
2	Enter the content in the Name, Mobile Number, Home Number, Office Number, E-mail, and/or Comments fields.	
3	Click Save.	

Modifying a Contact

Do the following:

Step	Procedure	
1	Select or double-click the contact and click Edit .	
2	Modify the contact.	

10 Contacts

Step	Procedure	
3	Click Save.	

Deleting a Contact

Do the following:

Step	Procedure	
1	Select one or more contacts. Then click Delete .	
2	Click OK .	

Sending a Message

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

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

Searching for a Contact

You can search for a contact. Do the following:

Step	Procedure
1	Click Search.
2	 Select a field item such as Name, Mobile, Family, Office or E-mail from the dropdown list in the Condition area.
	• Enter the content in the Value text box.
	 Select Match Whole Word Only and/or Match Case in the Matching Type field.
3	Click Search Now to start searching.
4	Click Stop Search to stop searching.

Importing/Exporting Contacts

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 .txt or .csv files.

Step	Procedure	
1	Select File > Import Contacts > From File.	
2	In the Open dialog box, select the file.	
3	Click Open 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.

10 Contacts

Step	Procedure	
1	Select File > Import Contacts > From USIM/SIM Card.	
2	You can select:	
	• Move Import: Contacts in the USIM/SIM card are deleted.	
	• Copy Import: Contacts in the USIM/SIM card are retained.	
3	Click OK . Then select Mobile , Home or Office and set whether to apply the operations to all items. Then click OK .	
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 File > Export Contacts > To File. Then click OK in the pop-up dialog box.
2	In the Save as dialog box, enter the file name with .csv as its extension.
3	Click Save.

Exporting a Contact to the USIM/SIM Card

Do the following:

Step	Procedure	
1	Select one or more contacts.	
2	Select File > Export Contacts > To USIM/SIM Card.	
3	Click OK.	

Step	Procedure	
	fter the exporting completes, a prompt is displayed to indicate the sult.	

Note:

- If you do not select a contact, the function is unavailable.
- 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

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

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

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 Settings > Modify PIN Code.
2	Enter the current PIN code and the new PIN code, and then enter the new code again to confirm it.
3	Click OK .

Validating the PIN Code

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

Step	Procedure
1	Select Settings > PIN Code Protection.
2	Select Validate to enable the PIN code validation function. For details, refer to the descriptions on page 13.

PIN Code Protection

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

Step	Procedure
1	Select Settings > PIN Code Protection.

Step	Procedure
2	 Select Enable or Disable. Enter the PIN code. Enable: You need to enter the PIN code when E220 starts up. Disable: You do not need to enter the PIN code when E220 starts up.

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.

11 Settings and Information Query

Setting SMS Alerts Function

Select the SMS Alerts tab to set the following items.

Option	Description
Alert window	Select the Alert window check box. If there is a new message, the alert window is displayed. You can:
	 Click View to view details.
	 Click Close to close the alert window.
Alert tone	After you select a sound file, if there is a new message,
	the sound file is played.
	 Click Browse to select the sound file.
	 Click Play to pre-listen to the sound file.

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: 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: 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 Specifications

Item	Description
Technical standard	3GPP R5
USB interface standard	USB2.0 full speed standard
Radio system	 GSM/GPRS/EDGE: 900 MHz/1800 MHz /1900 MHz HSDPA /WCDMA: 2100 MHz
Radio frequency	GSM/GPRS/EDGE 900 MHz
band	• UL: 880 MHz - 915 MHz
	• DL: 925 MHz - 960 MHz
	GSM/GPRS/EDGE 1800 MHz
	• UL: 1710 MHz - 1785 MHz
	• DL: 1805 MHz - 1880 MHz
	GSM/GPRS/EDGE 1900 MHz
	• UL: 1850 MHz - 1910 MHz
	• DL: 1930 MHz - 1990 MHz
	HSDPA/WCDMA 2100 MHz
	• UL: 1920 MHz - 1980 MHz
	• DL: 2110 MHz - 2170 MHz
Radio power output	 HSDPA/WCDMA 2100 MHz: Power Class 3, +24 dBm+1/-3
	• GSM/GPRS 900 MHz: Power Class 4, +33 dBm±2
	• GSM/GPRS 1800 MHz: Power Class 1, +30 dBm±2
	 GSM/GPRS 1900 MHz: Power Class 1, +30 dBm±2 EDGE 900 MHz: Power Class E2, +27 dBm±3
	• EDGE 1800 MHz: Power Class E2, +27 dBm±3
	• EDGE 1900 MHz: Power Class E2, +26 dBm±3

12 Specifications

Item	Description
Services	Data service: GSM CS: UL 9.6 kbit/s/DL 9.6 kbit/s GPRS: UL 26.8 kbit/s/DL 53.6 kbit/s EDGE: UL 118.4 kbit/s/DL 236.8 kbit/s WCDMA CS: UL 64 kbit/s/DL 64 kbit/s WCDMA PS: UL 384 kbit/s/DL 384 kbit/s UL WCDMA/DL HSDPA: UL 384 kbit/s/DL 3.6 Mbit/s SMS: GSM, GPRS, WCDMA, HSDPA, EDGE
Dimensions $(D \times W \times H)$	89.37 mm × 42.61 mm × 14.50 mm
Weight	About 50 g
Power supply method	Through two USB interfaces
Operating temperature	-10°C to +55°C
Storage temperature	-40°C to +70°C

13 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 Connect-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.

13 FAQ

I cannot paste the phone number. Why?

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

14

Warnings and Precautions

Electronic Device

- Switch off your wireless 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. If you are using an electronic
 medical device, consult the device manufacturer and confirm whether the radio
 wave affects the operation of this electronic 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 it is prohibited to use wireless devices.

Area with flammables and Explosives

In the area with inflammables and explosives, disconnect your wireless device from your PC and turn off the PC to avoid explosion and fire. The area with inflammables and explosives include:

- · Gas station
- Area for storing fuels (such as the bunk under the deck of a ship)
- · Device/Vehicle for transporting and storing fuels or chemical products
- Area with chemical substances and particles (such as: granule, dust, metal powder) in the air
- · Area with the sign of Explosives
- · Area with the sign of Turn off bi-direction wireless equipment

14 Warnings and Precautions

• Area where it is generally suggested to stop the engine or a vehicle

Traffic Safety

- Please observe the relevant regulation of the area or country where you are. 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 safety 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. On or nearby a plane, disconnect the wireless device from your PC and turn off the PC. In areas where it is prohibited to use wireless device, do not use the wireless device. Otherwise, the wireless signal of the wireless device can disturb the plane control signals. Disconnect the wireless device from your PC and turn off the PC 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 in containers with strong magnetic field, such as an induction cooker and a microwave oven. Otherwise, circuit failure, fire, or explosion can be caused.
- Do not leave your wireless device in a very hot or cold place. Otherwise, malfunction of the products, fire, or explosion can be caused.
- Do not put your wireless device in the pocket on the back side of trousers or a skirt to avoid wireless device damage while seating.

Children Safety

 Put your wireless device in places beyond the reach of children. Do not allow children to use the wireless device 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 is not water-resistant. Keep it dry. Protect the wireless
 device 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 can
 be caused
- Do not use the wireless device in dusty, damp and dirty places or places with magnetic field. Otherwise, malfunction of the circuit can be caused.
- When you carry or use the wireless device, keep it at least one inch (2.5 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.
- Do not touch the wireless device when it is running. This may affect call
 quality and cause the wireless device to operate with more power.
- The wireless device may interfere nearby TV sets and radios.
- In accordance with the international standards for radio frequency and radiation, use wireless device accessories approved by Huawei only.

Cleaning and Maintenance

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

Environmental Care

Please observe the local regulations regarding the disposal of your packaging materials, old wireless device and please promote their recycling. Do not dispose of old wireless device in a dustbin or fire. Otherwise, explosion can be caused

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 does not exceed the limit established by the European Council Recommendation: 1999/519/EC for safe exposure. 1.

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.

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 0.59 W/kg.

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.

15

Acronyms and Abbreviations

A

APN Access Point Name

 \mathbf{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

Н

HSDPA High Speed Downlink Packet Access

P

PS Packet Switched

PIN Personal Identification Number

PUK PIN Unblocking Key

 \mathbf{S}

SIM Subscriber Identity Module

U

UL Uplink

15 Acronyms and Abbreviations

USB Universal Serial Bus

USIM User Service Identity Module

W

WCDMA Wideband Code Division Multiple Access

WINS Windows Internet Name Service