

Technology Document

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Dual-mode Wireless Access Terminal

After-sales Service Manual (Level 1)

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1. Product Summary

1.1 Standard Configuration

No.	Part Name	Qty
1	Phone Set	1
2	Ni-MH Battery	1
3	Charger	1
4	USB Data Cable	1

1.2 Specification

- ✧ Support: WCDMA
- ✧ Dimension (H*W*T): 123mm*51mm*23mm
- ✧ Color:
- ✧ Talk Time: 360 mins
- ✧ Standby Time: 400 hours

1.3 Features

- ✧ Key features: HSDPA 3.6/7.2M B_T
- ✧ Chic group: MSM6280/FTR6275/RFR6275
- ✧ Main functions: Video call, Stream media, Camera (Dual Camera 300K/1.3M), MMS, WAP, JAVA, Bluetooth
- ✧ Support: UMTS850/2100 (whz) GSM/EDGE/GPRS850/900/1800/1900
- ✧ MIDI: 72
- ✧ Network access speed: 3.6/7.2 Mbps DL, 384 Kbps UL
- ✧ Waterproof, shockproof, and dustproof

1.4 Inner Type

Inner Type	Outer Type
P622A1	F158

2. Inner Structure and Elements

2.1 Function Check

Check IMEI Number

- ◆ Input #06# to check whether the IMEI number in the wireless access terminal is same as that pasted on the phone set.
- ◆ Input *983*837# to query the version number.

Test Simple Functions

- ◆ Input *983*0# to enter the test mode. Perform the tests in the order of LCD → Ring tone → Motor → Key → Camera → Echo → Headphone.

Test Main Functions

- ◆ Check LCD: LCD display in the order of Red → Green → Blue. Check there are no black spot/line or other color.
- ◆ Check the vibrator: The vibrator is working normally, with normal strength and without abnormal sound.
- ◆ Check the tone: The music can be heard through the receiver, without broken sound and abnormal volume.
- ◆ Check the keys: Press each key to check whether the corresponding character can be displayed. Use the same force to check whether all keys are easy to switch.
- ◆ Check the camera: The scene can be clearly seen in the camera lens, without dithering and noise spot.
- ◆ Check the audio loop: Blow to MIC and the rustle sound can be heard from the receiver.
- ◆ Check the appearance: Check whether the 8PIN USB interface is damaged, the charger, data cable and the headphone are plugged smoothly, and the functions are realized.

2.2 Function Test

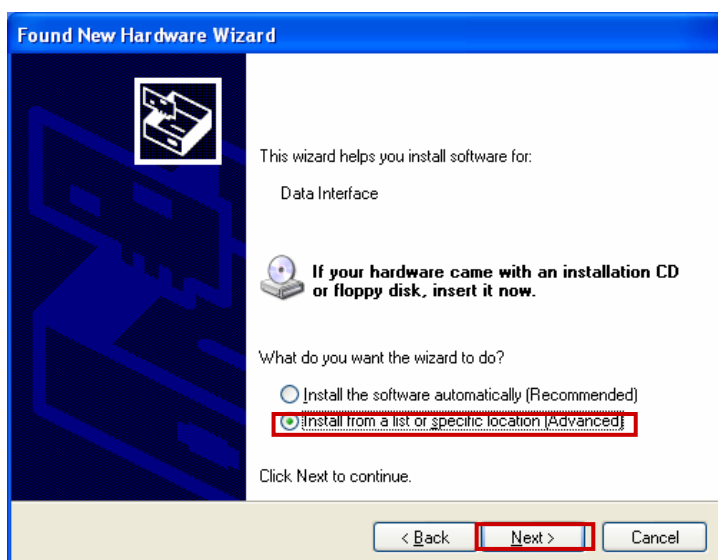
- ◆ Download the data cable
8PIN USB Standard Universal Data Cable (Code: 052621600208)



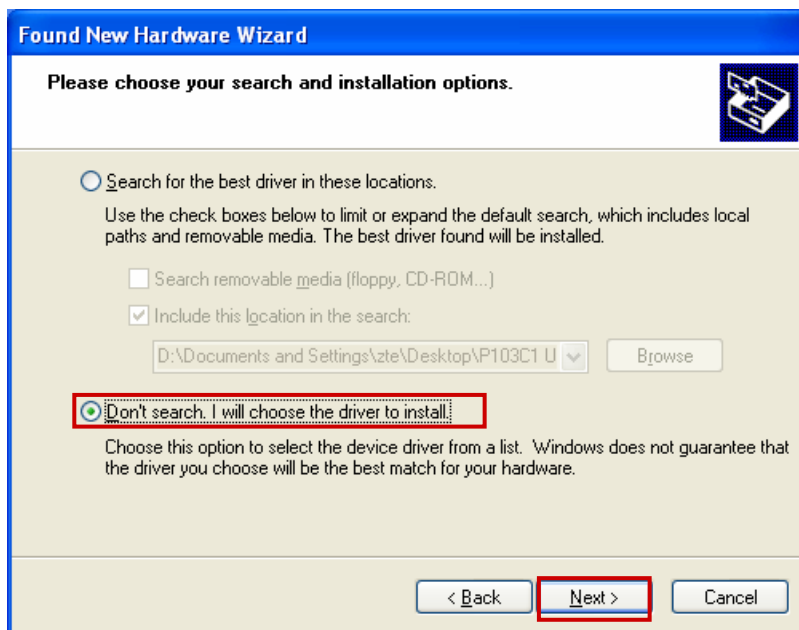
- ◆ Install the USB Driver
3G USB download cable driver
- ◆ Turn on the wireless access terminal. Connect the data cable and the PC. The PC will display the following prompt automatically. Select No, not this time and click Next.



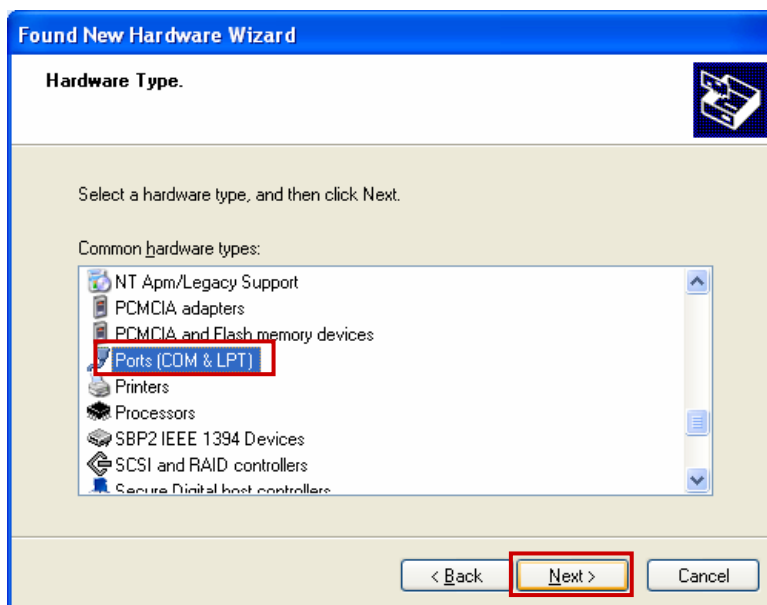
- ◆ Select Install from a list or specific location (Advanced).



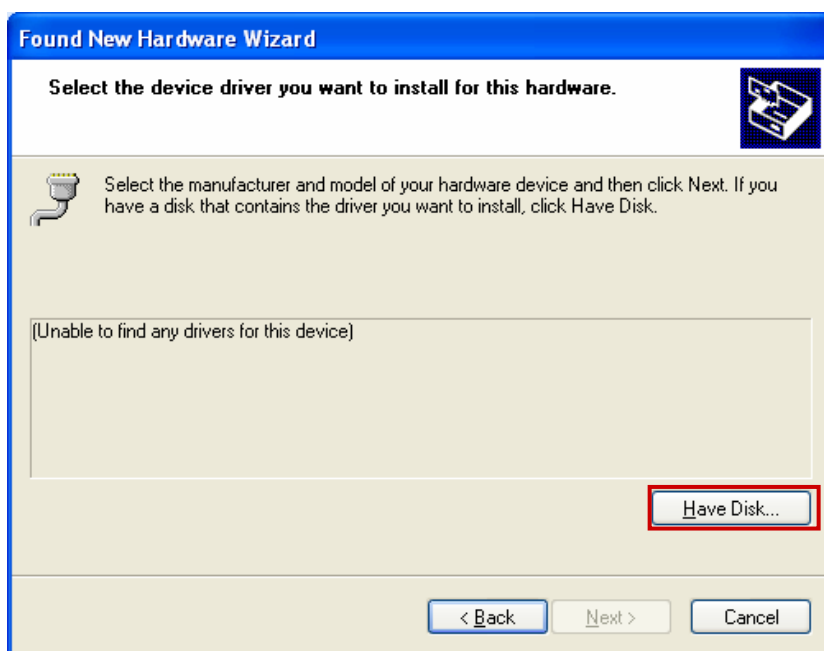
- ◆ Select Don't search I will choose the driver to install and click Next.



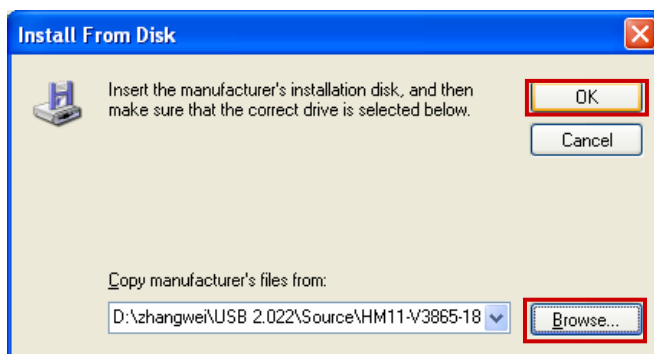
- ◆ Select Ports and click Next.



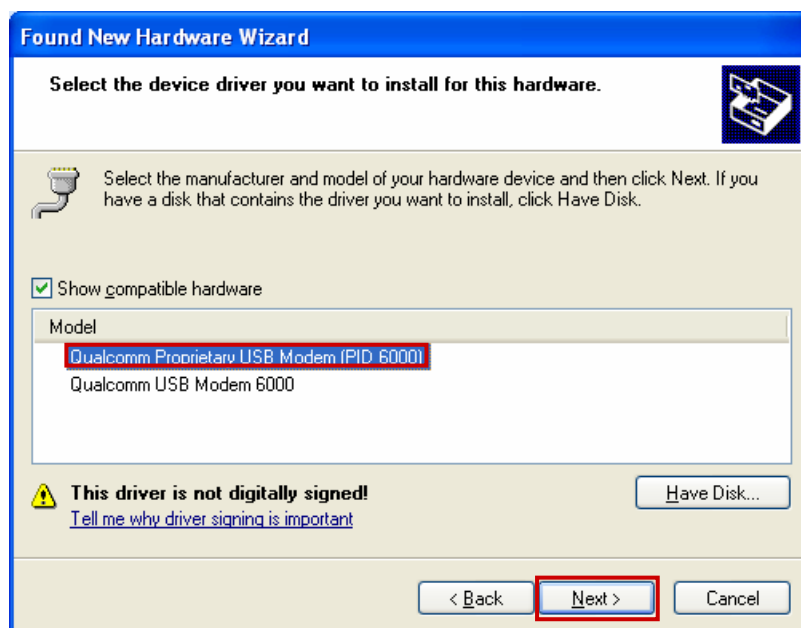
- ◆ Click Have disk.



- ◆ Click Browse, select the startup program to install, and click OK.



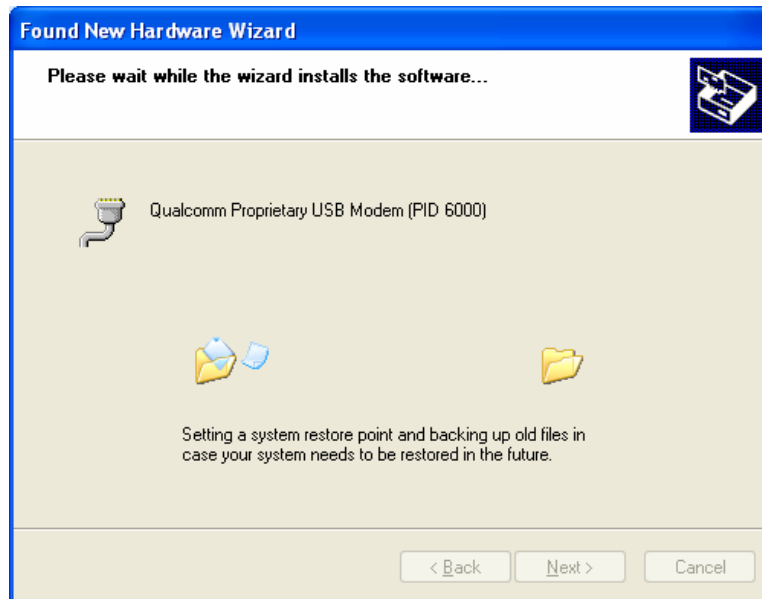
- ◆ Select and click OK.



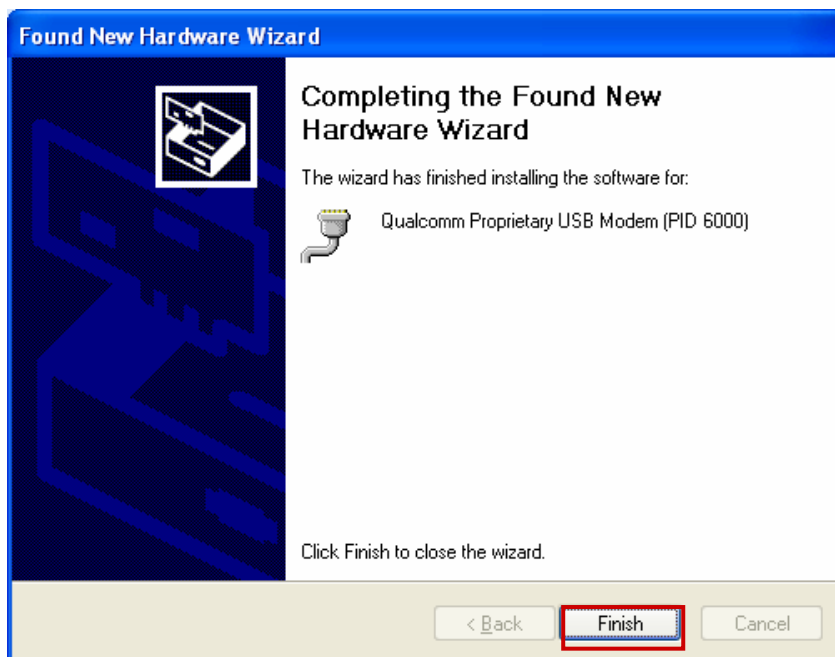
- ◆ Click Continue Anyway.



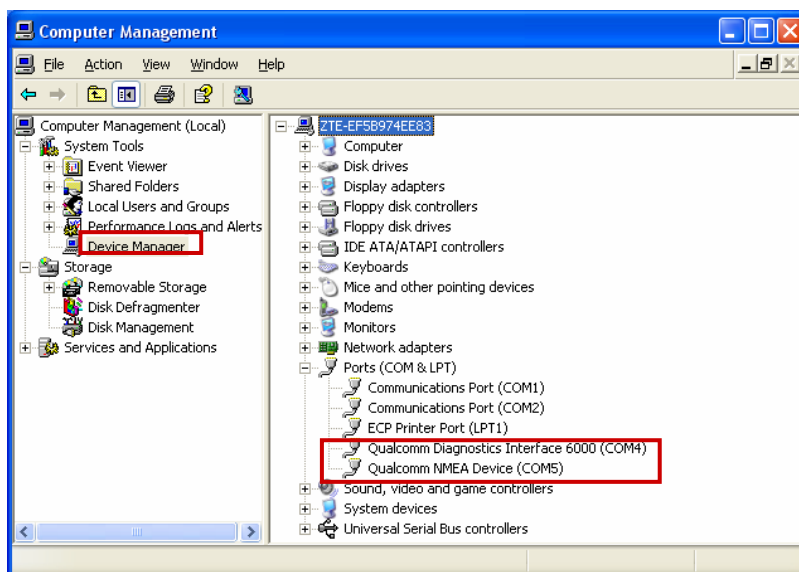
- ◆ Installing



- ◆ After the installation finishes, click Finish.



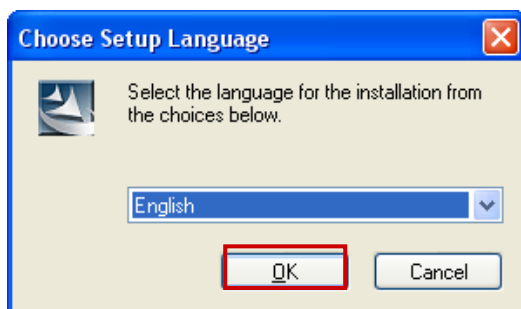
- ◆ Right click My Computer → Management → Device Manager → Port. Check the port settings COM4 and COM5.



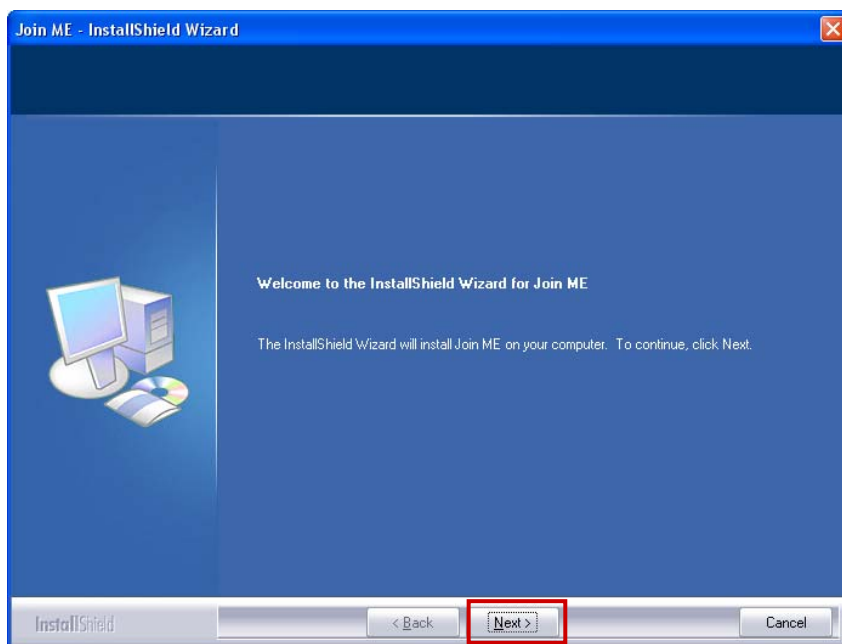
- ◆ Install the function test software: ZTEP10A_F158_V1.0.0B04
Double-click the software installation icon.



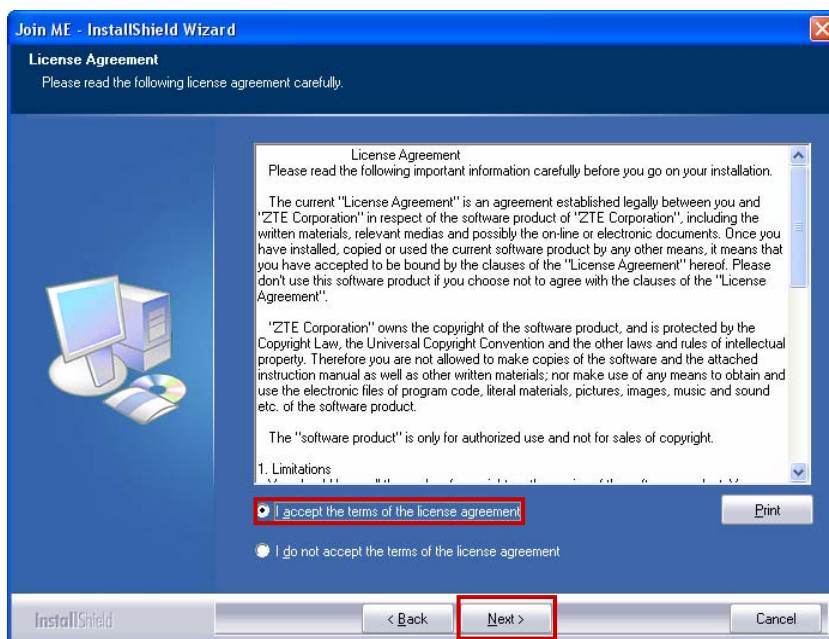
- ◆ Click OK.



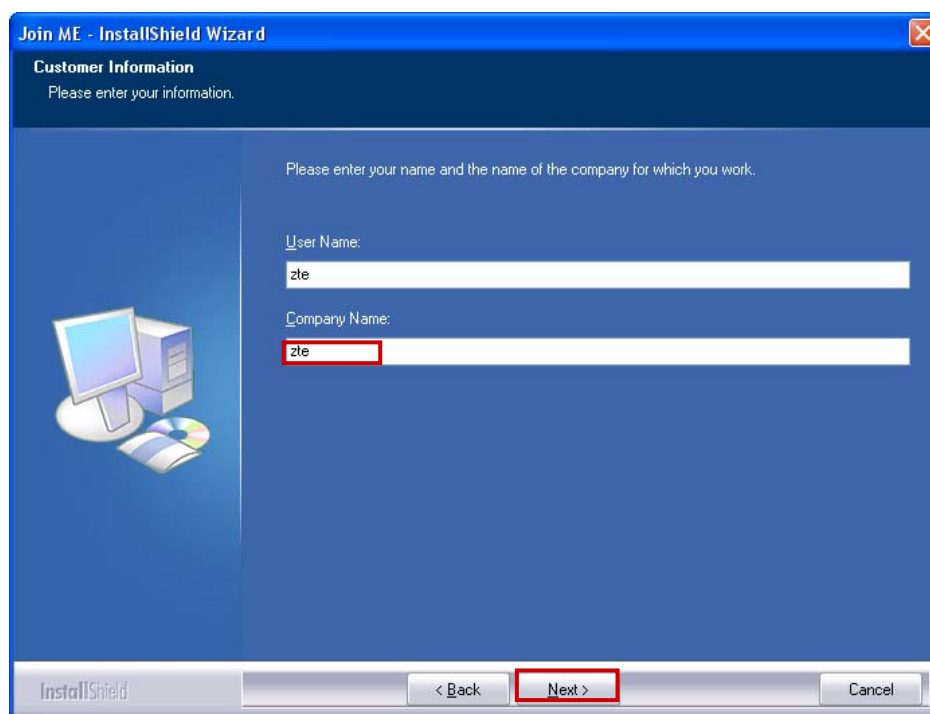
- ◆ Click Next.



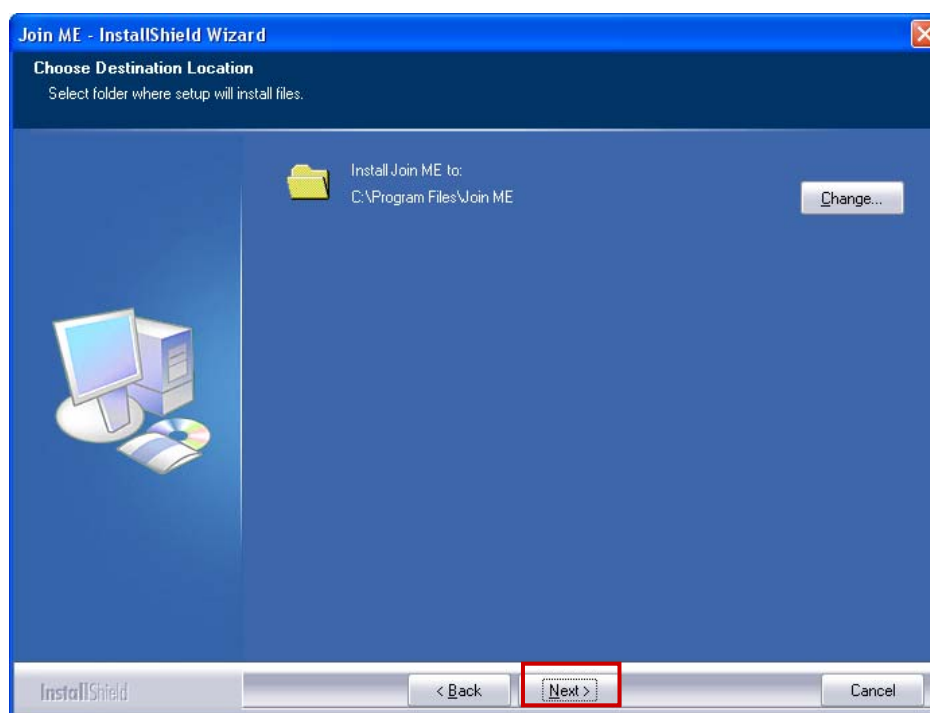
- ◆ Select I accept the terms of the license agreement and click Next.



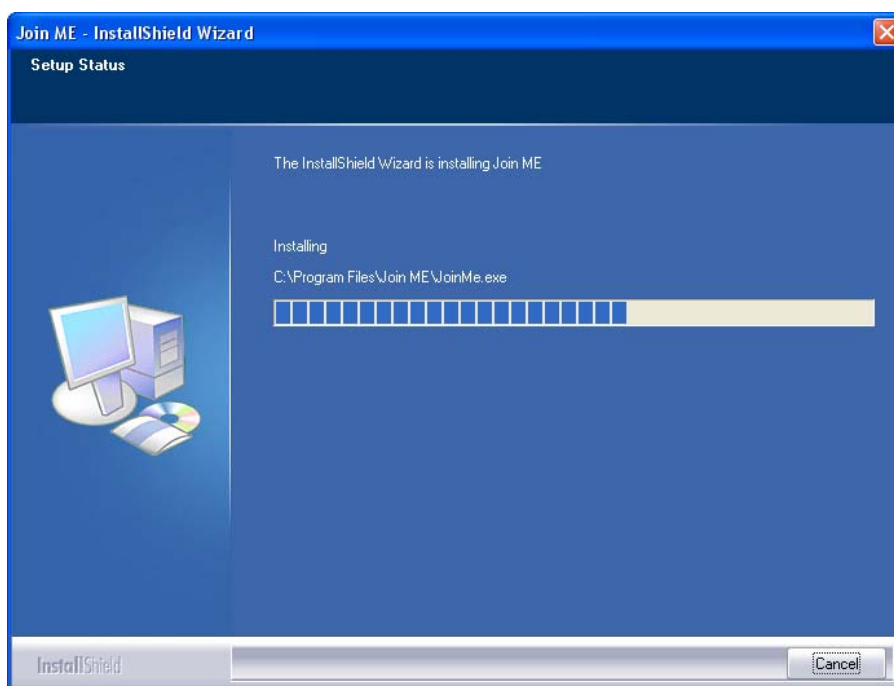
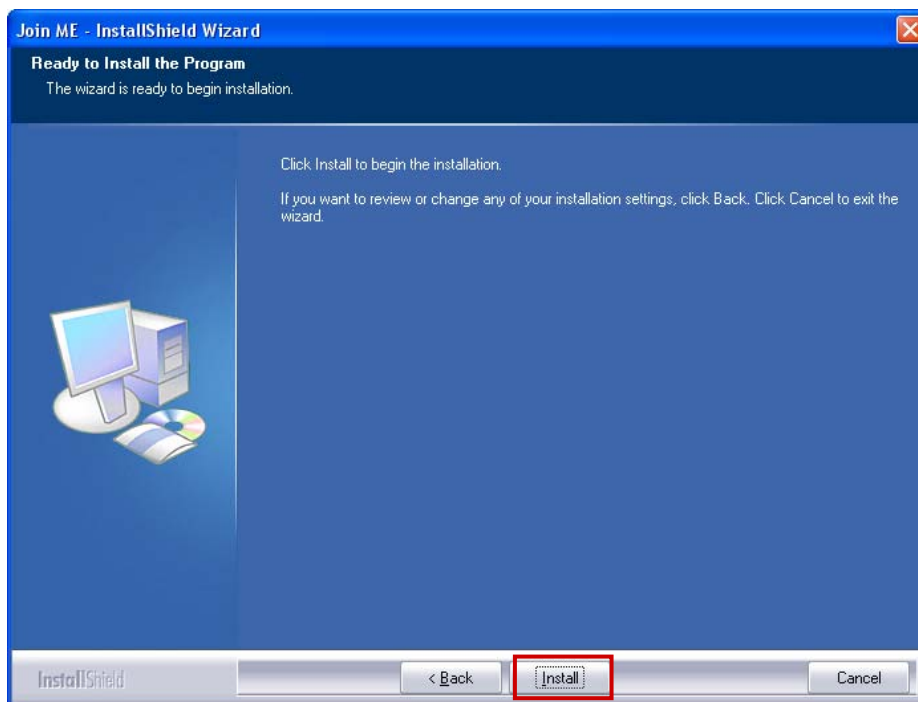
- ◆ Input zte and click Next.



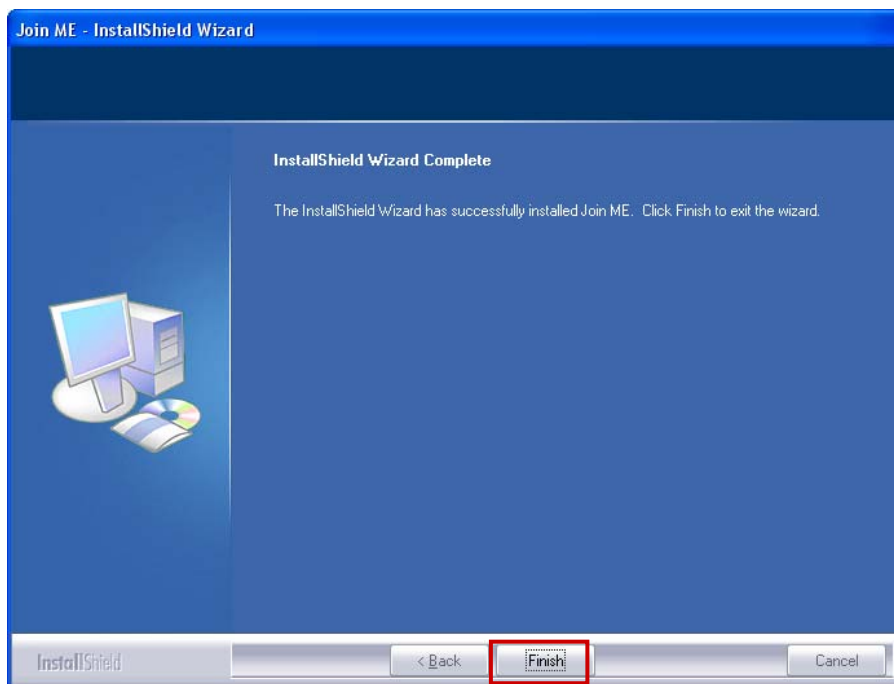
- ◆ Click Next.



- ◆ Click Install.



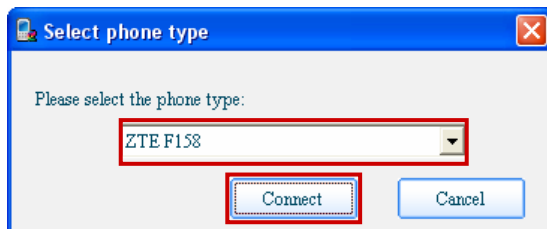
- ◆ Click Finish.



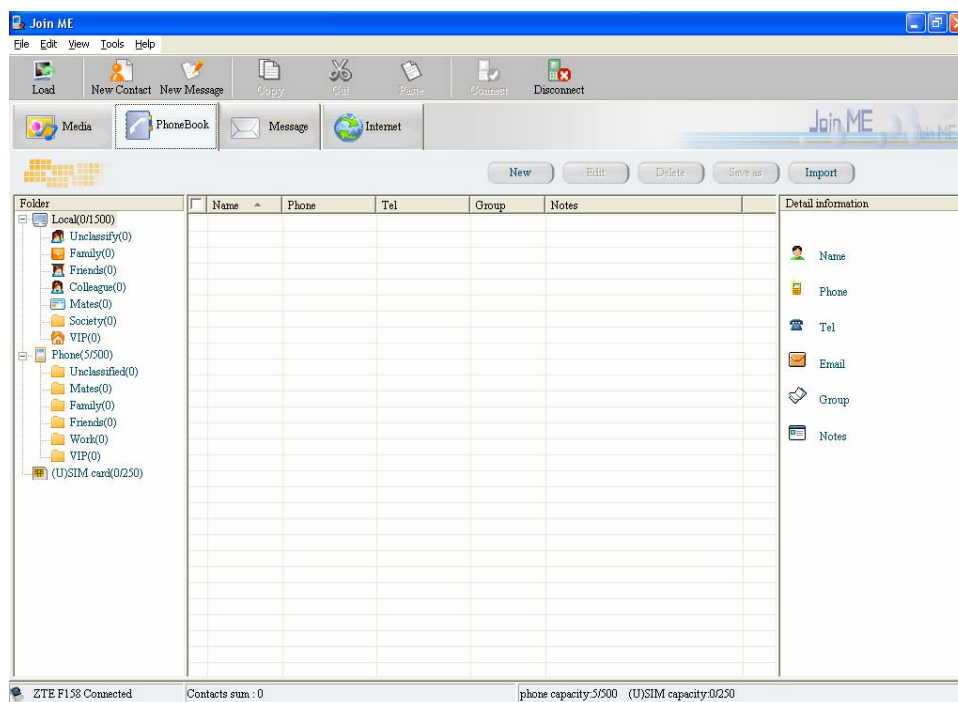
- ◆ Software shortcut icon



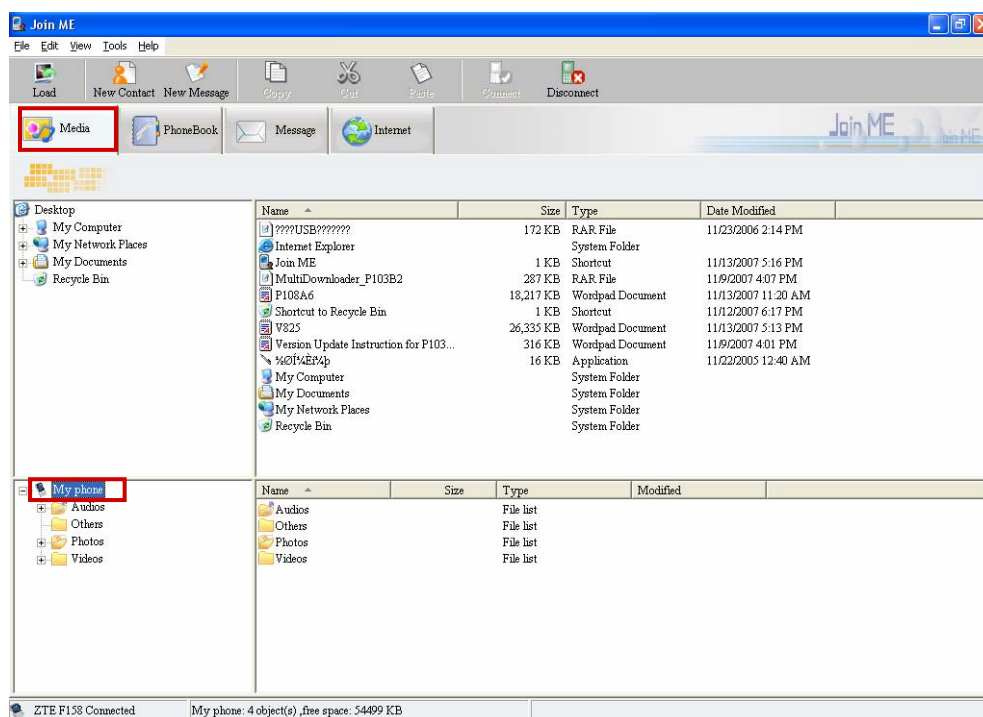
- ◆ Double click the shortcut icon to open the function test interface. Select ZTE F158 and click Connect to connect the wireless access terminal.



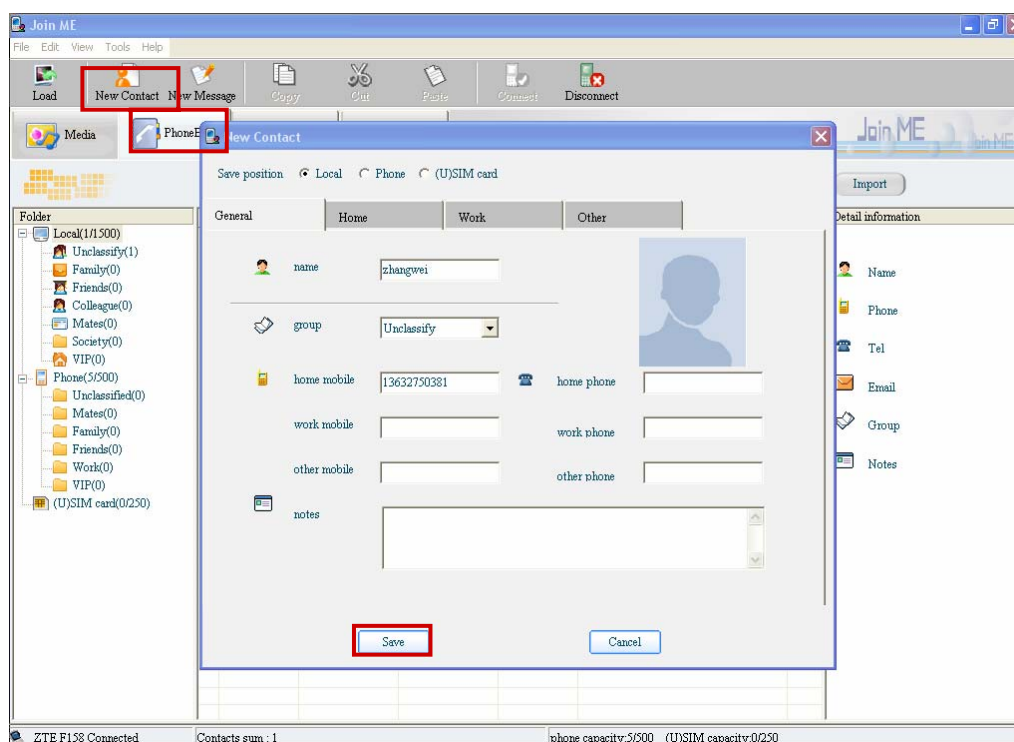
◆ Test main interface



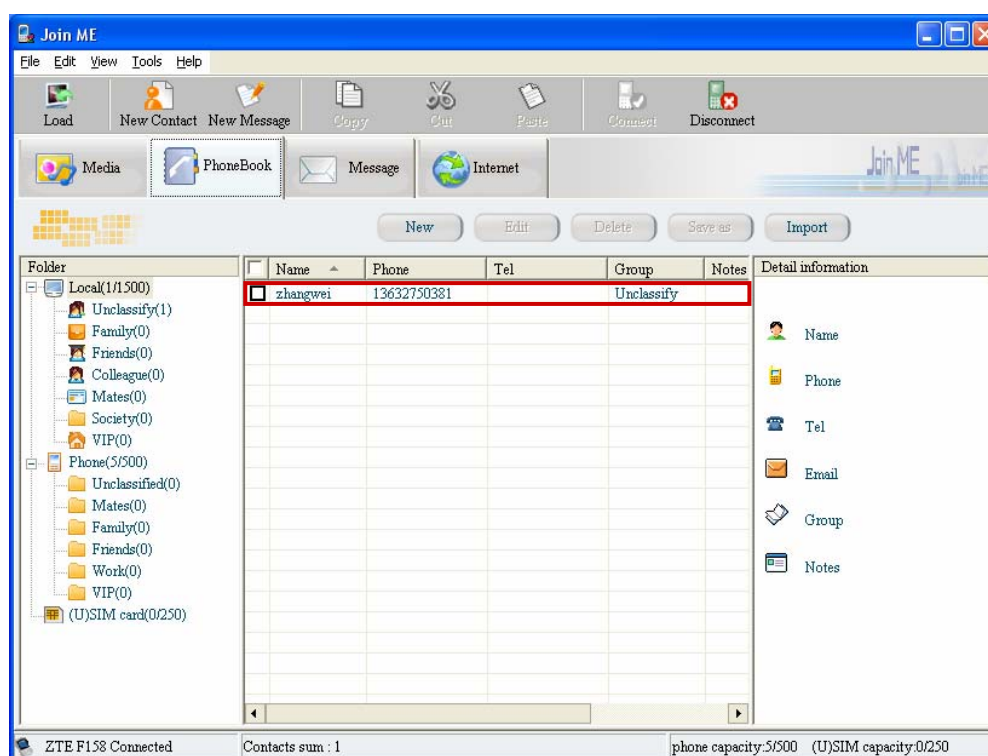
◆ Select Media. The wireless access terminal transmits the messages to the PC.



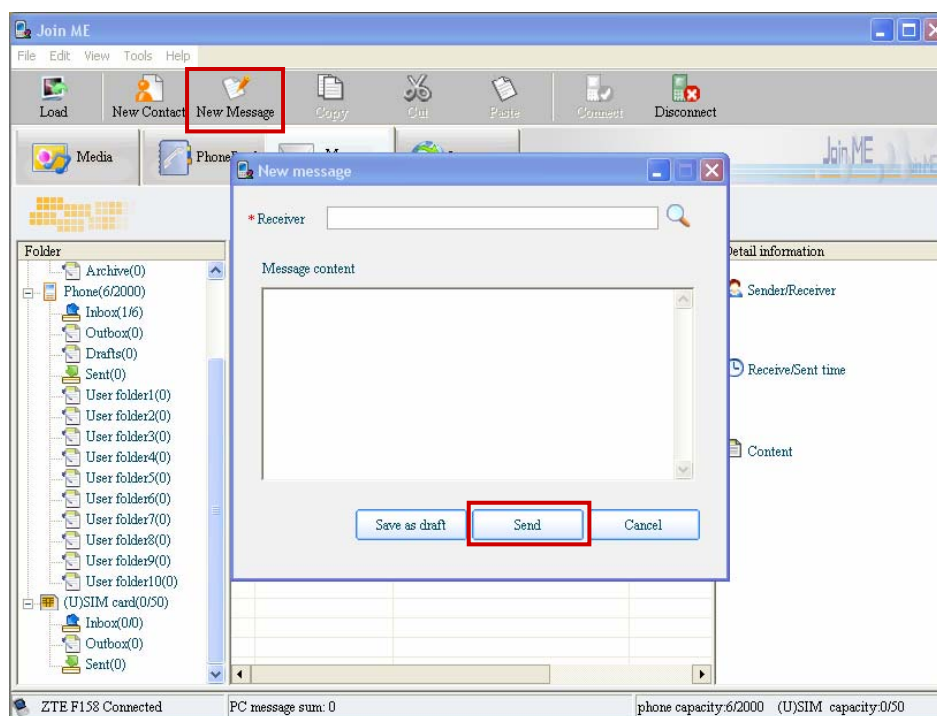
- ◆ Click Phone Book and click New Contact.



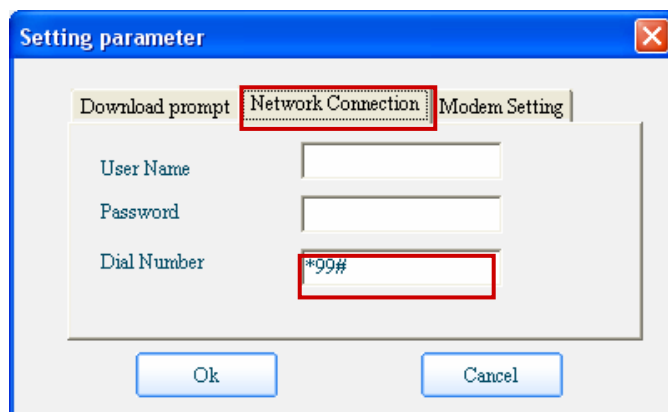
- ◆ Edit the information of the new contact and click Save.



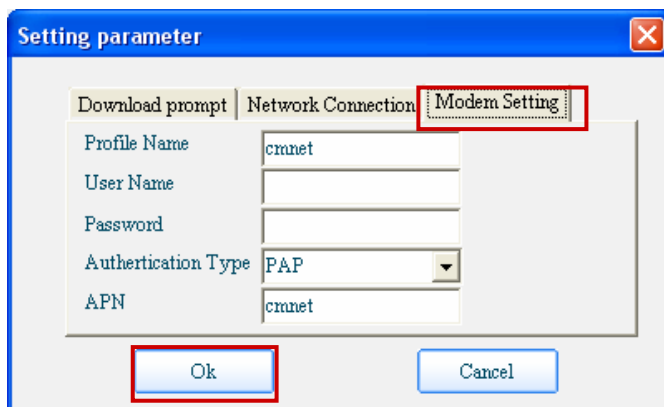
- ◆ Click Message → New Message → Send.



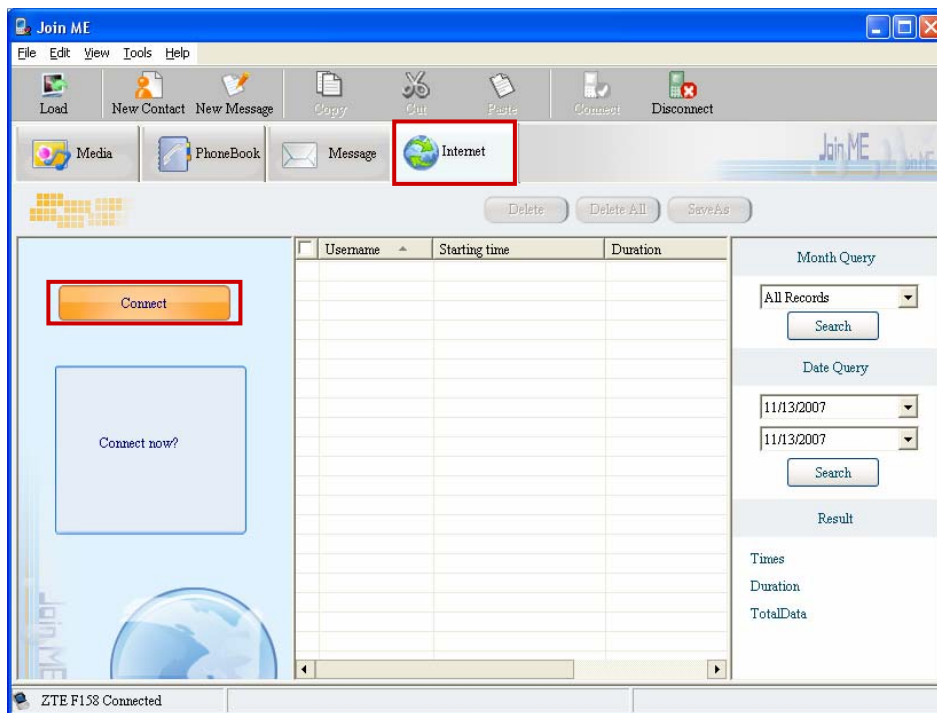
- ◆ Click Tools → Network Connection. **Note:** Different country has different network connection. Please refer to the operators for the details.



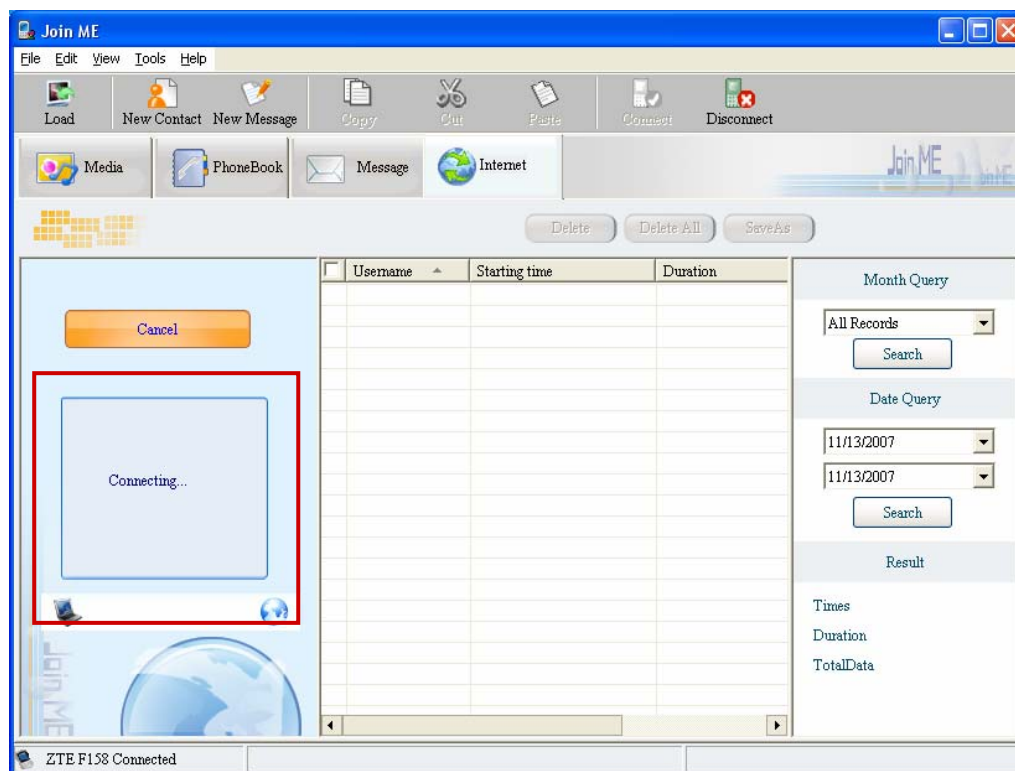
- ◆ Click Modem Setting. **Note: Different country has different network connection. Please refer to the operators for the details.**



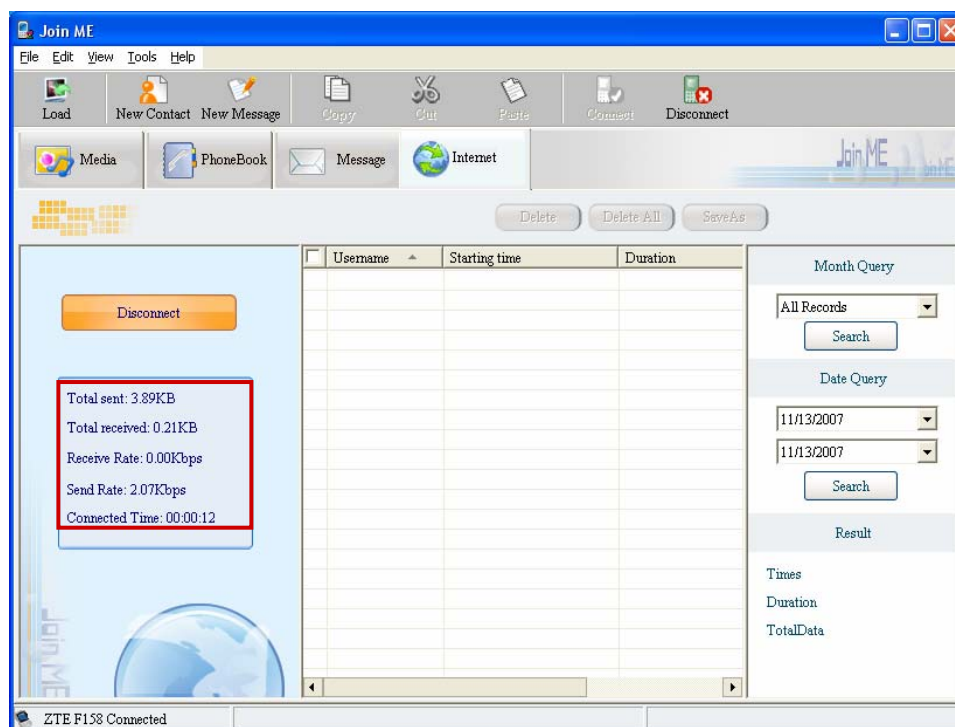
- ◆ Click Internet to connect the network data.



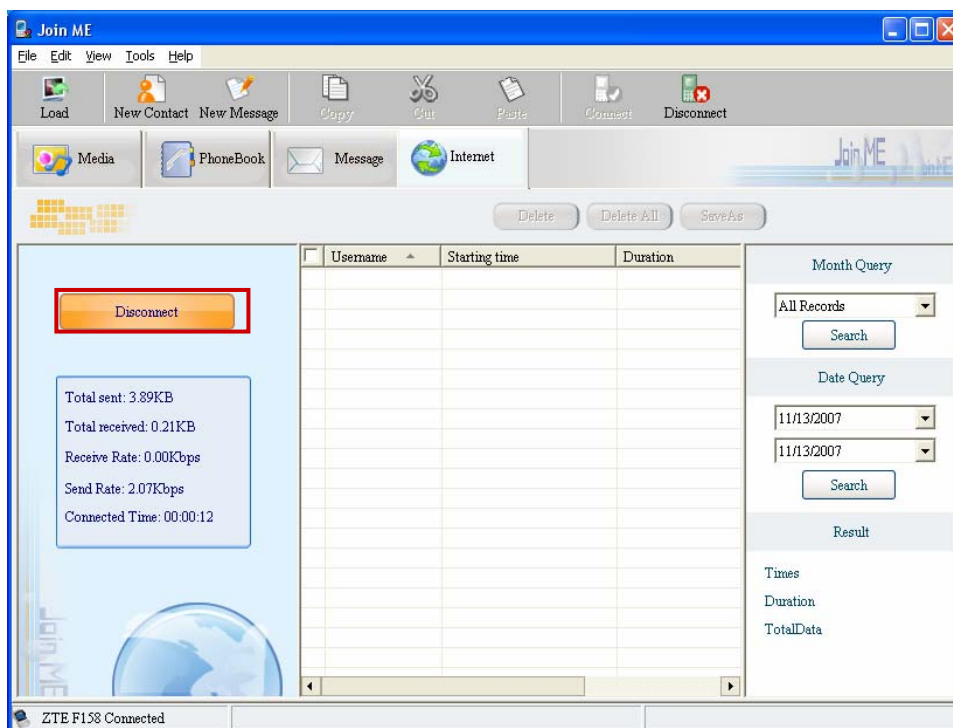
◆ Connecting



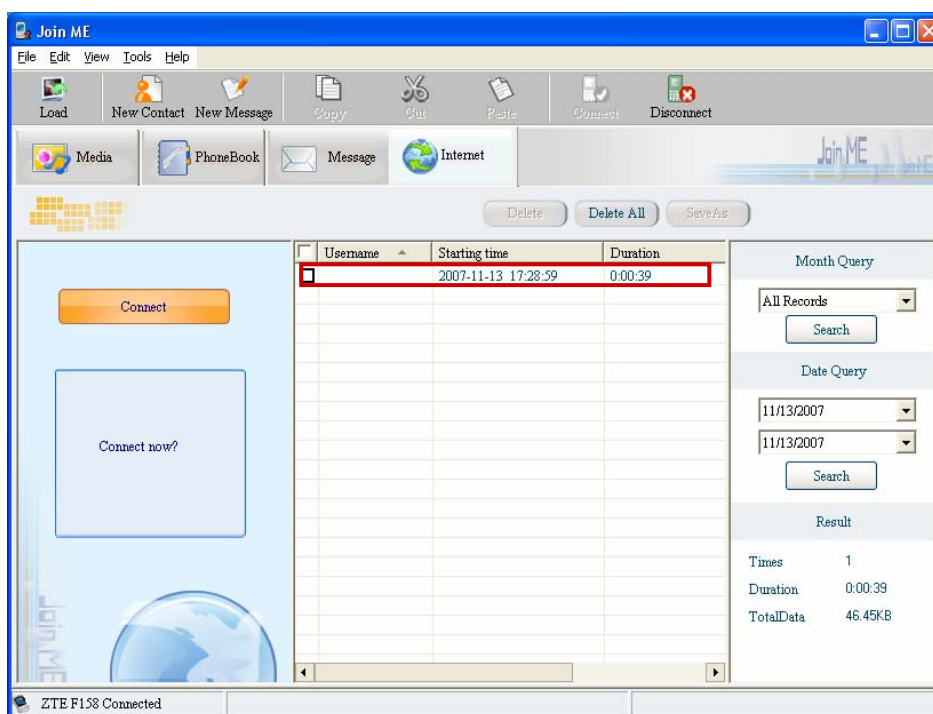
◆ Connection succeeds.



- ◆ Click Disconnect to disconnect the network.



- ◆ The network access records can still be displayed after the network is disconnected.



2.3 Software Download

◆ Software download description

Each wireless access terminal to be repaired should be upgraded to the latest version, and each repaired one should be in the latest version.

◆ Download the data cable

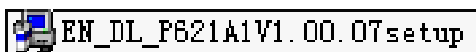
8PIN USB Standard Universal Data Cable (Code: 052621600208)



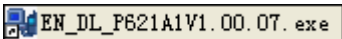
◆ Install the download cable driver

The installation of the 3G USB download cable is same as that of the function test.

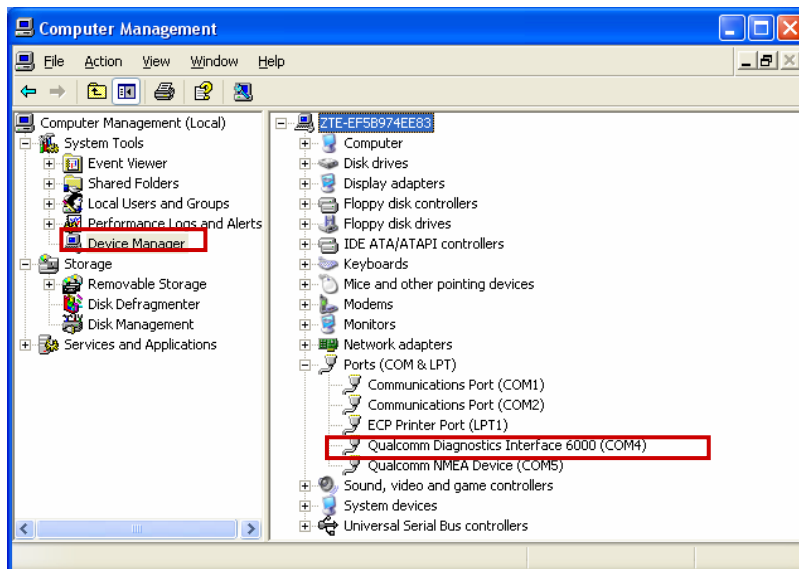
Install the download platform: EN_DL_P621A1V1.00.07setup



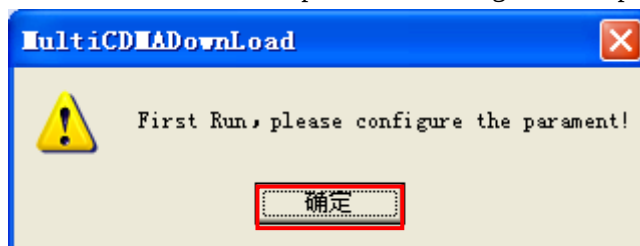
◆ Double-click the shortcut icon on the desktop after the installation.



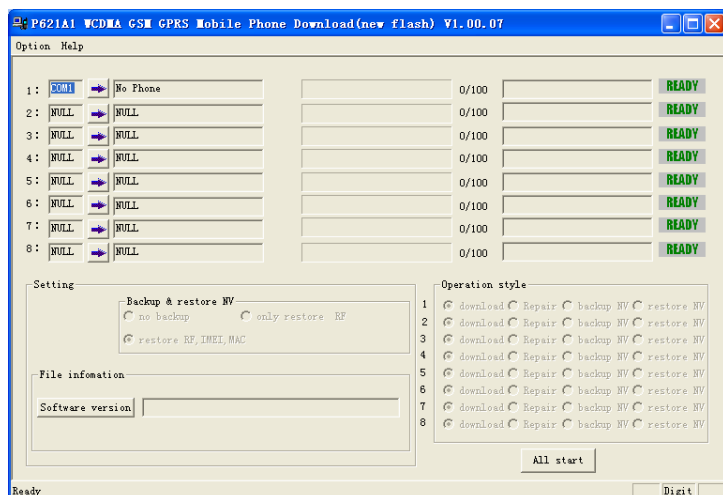
◆ To enter the device managed, click My Computer → System Properties → Hardware → Device Manager.



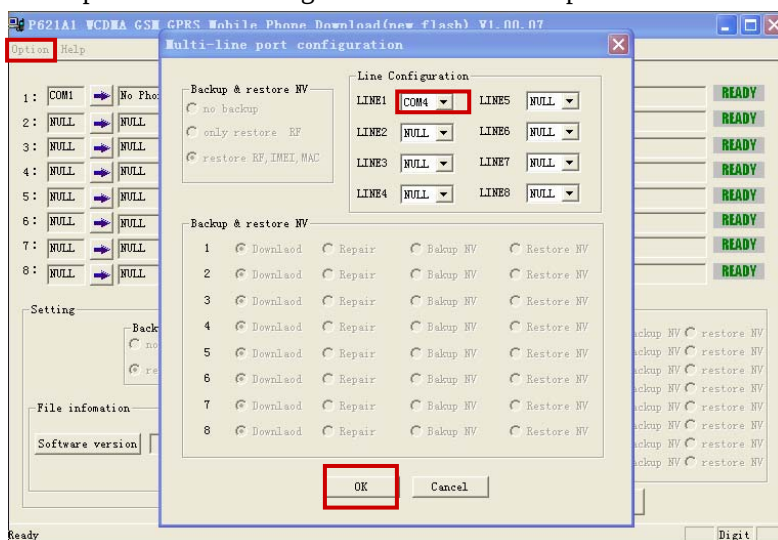
◆ Double click the shortcut icon. For the first open, the following interface pops up. Click OK.



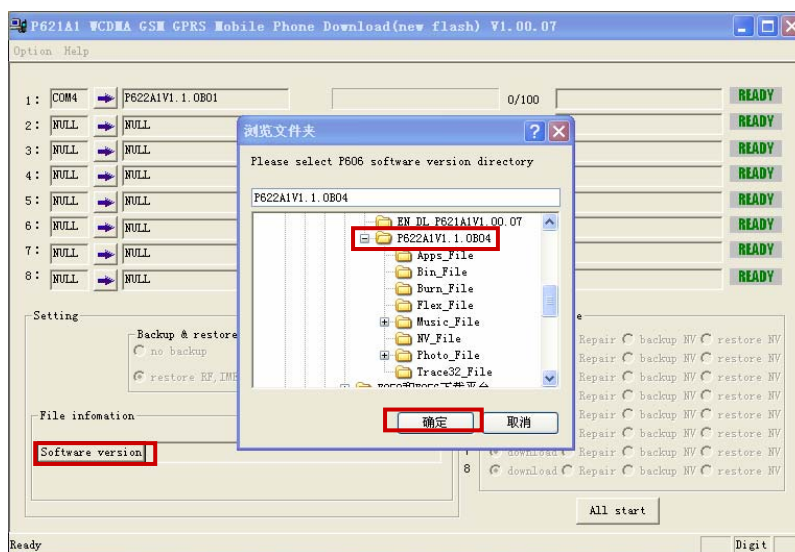
◆ The download main interface



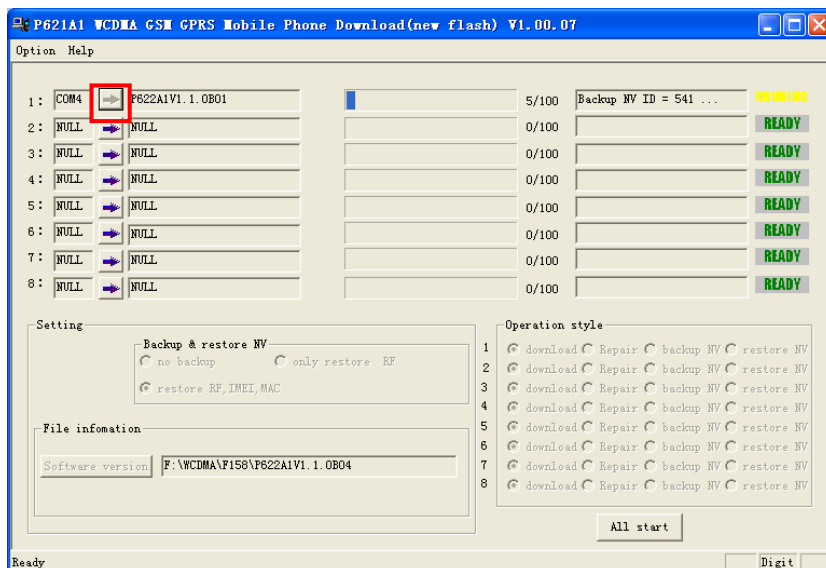
◆ Click Option → Port Setting and select the correct port COM4.



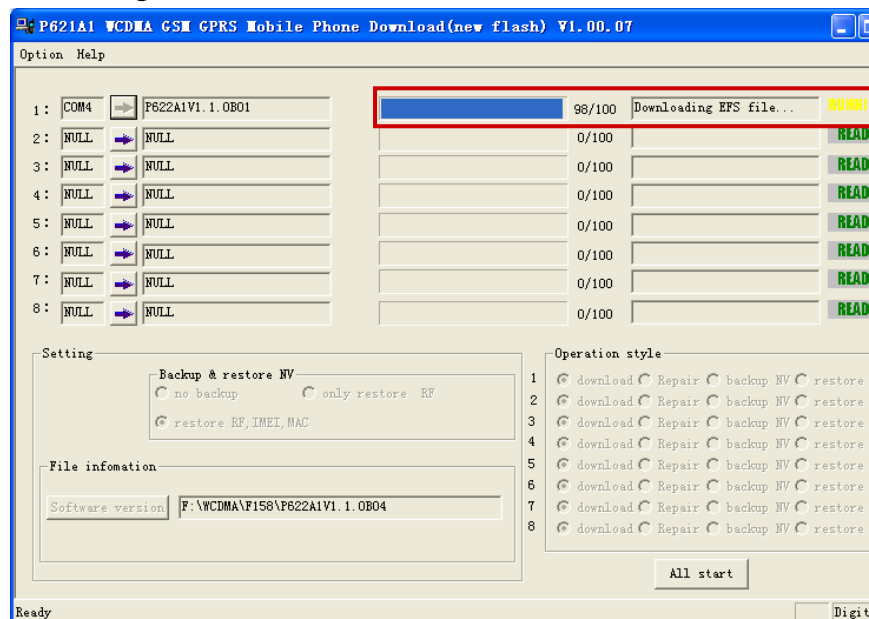
◆ Click Software version and select the correct software version.



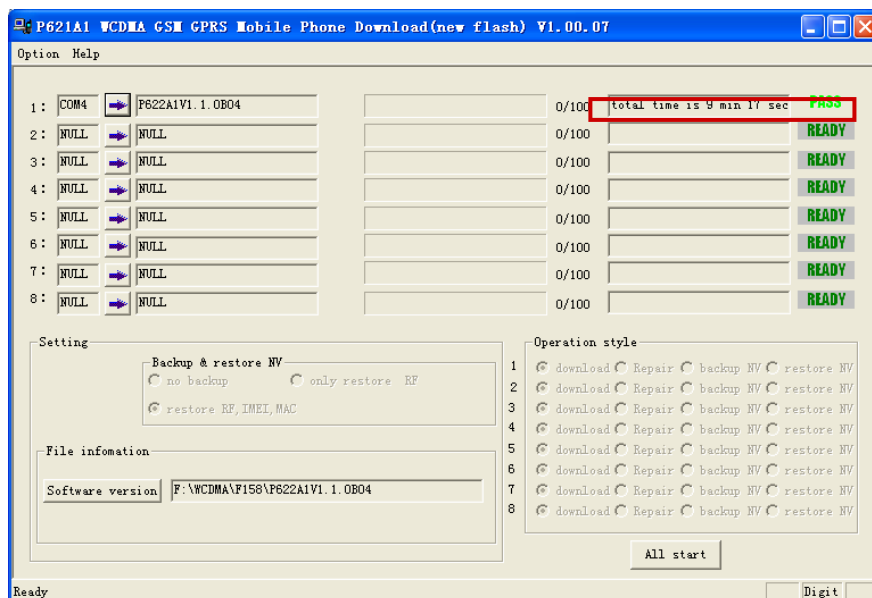
- ◆ Click the button  and begin to download.



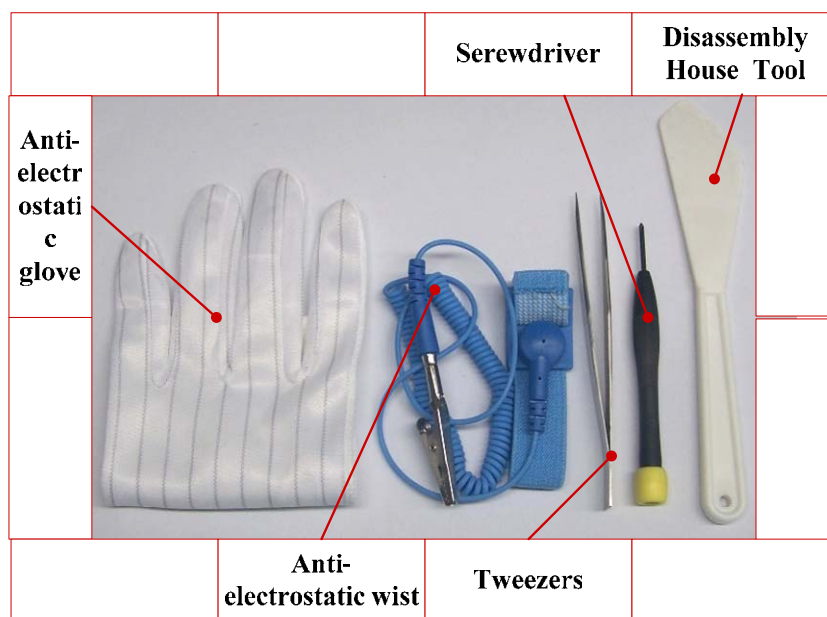
- ◆ Downloading.



- ◆ Download finishes.



2.4 Disassembly Flow



- ◆ Detach the rear cover and the battery.



- ◆ Remove the screw plugs.



- ◆ Remove the screws and pay attention to the positions of the screw holes.



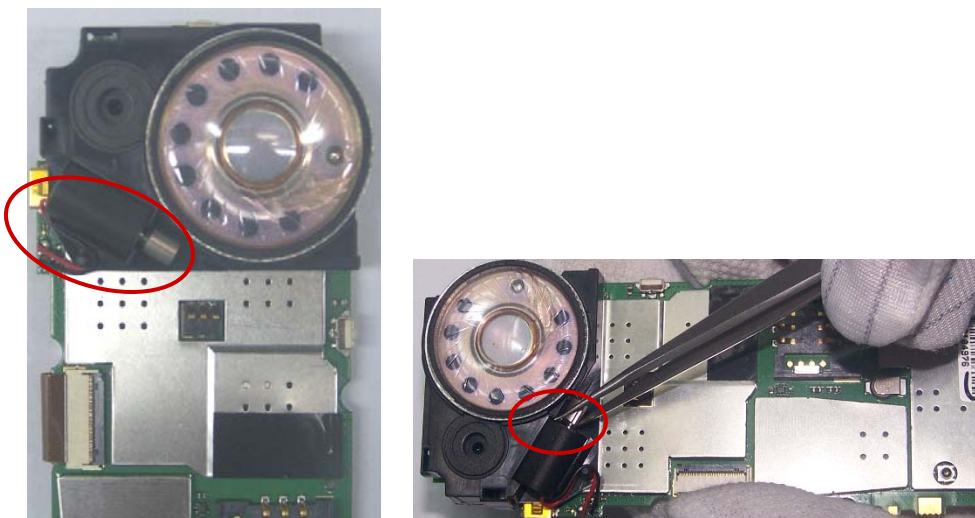
- ◆ After the screws are removed, the front and rear covers are opened automatically.



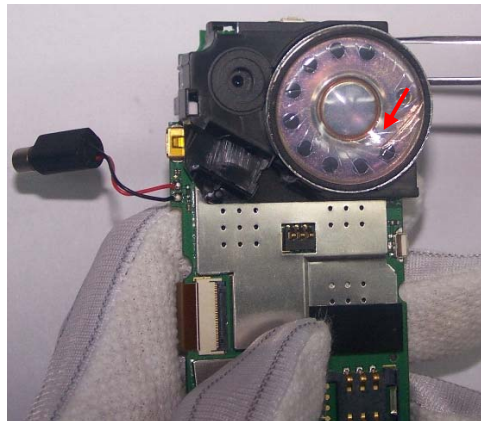
- ◆ Take the main board out with the sneezers.



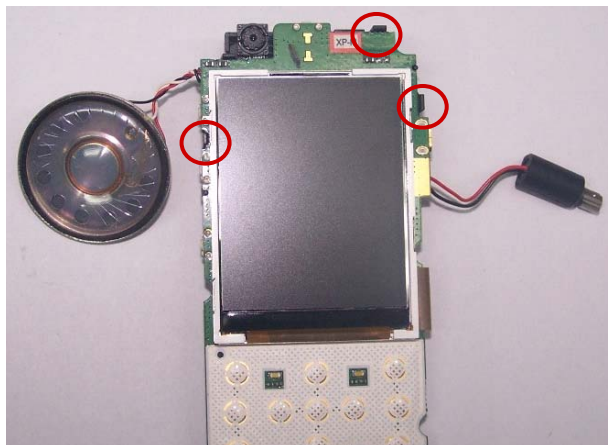
- ◆ Pay attention to the installation of the motor. Take the motor out with the sneezers.



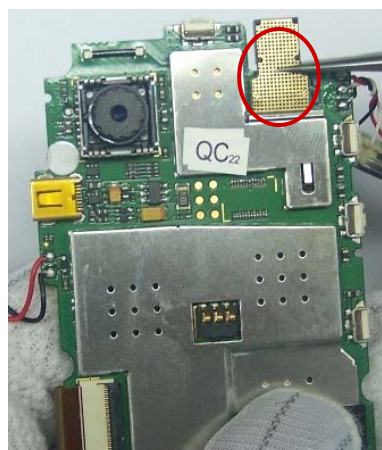
- ◆ Take out the speaker with the same method. Pay attention that do not damage the thin film on the speaker.



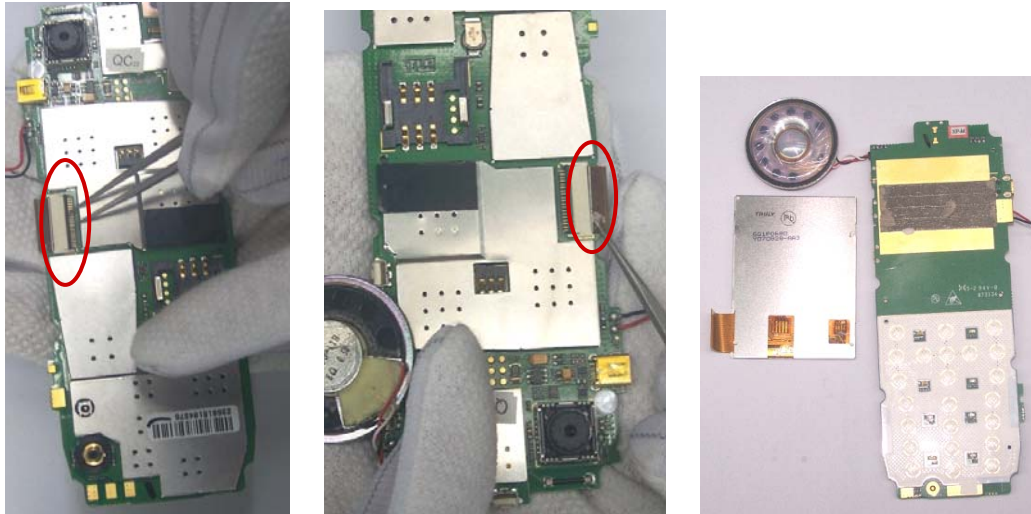
- ◆ Take out the antenna and pay attention to the position of the locks.



- ◆ Remove the camera with the tweezers.



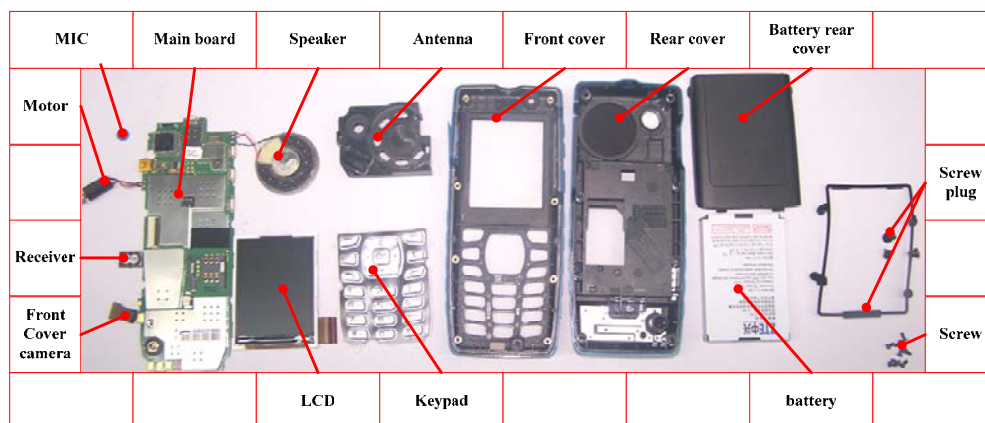
- ◆ Take out the FPC that connects the LCD with the sneezers. Pay attention to the locks.



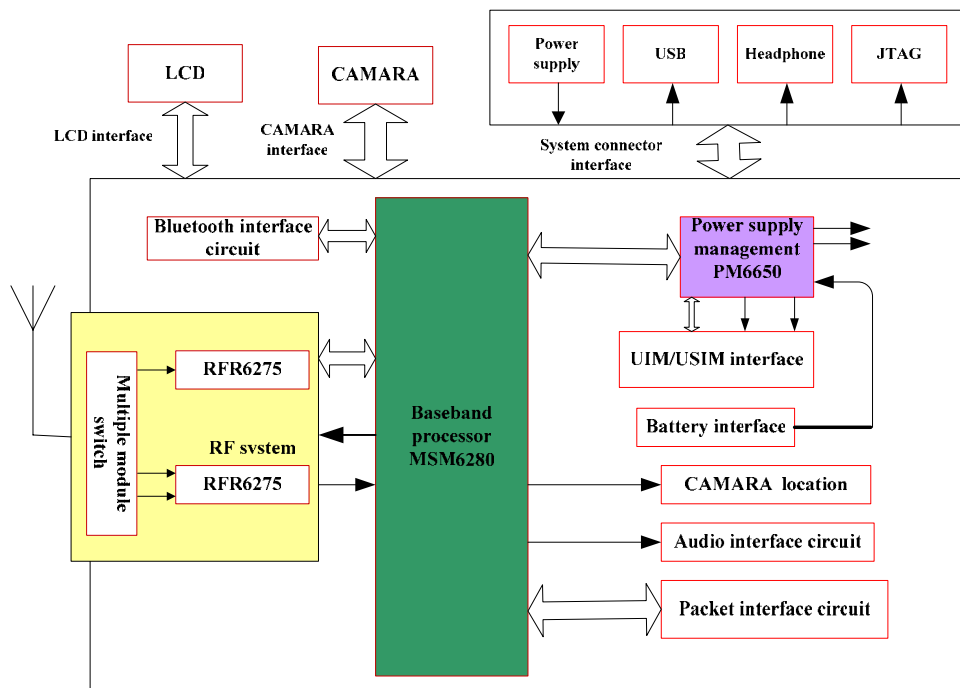
- ◆ Take out the speaker and the receiver.



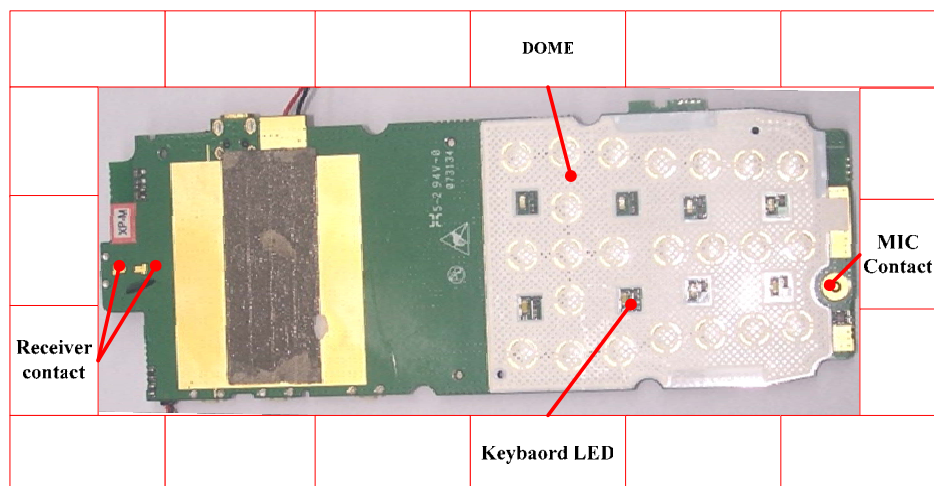
2.5 Compositions

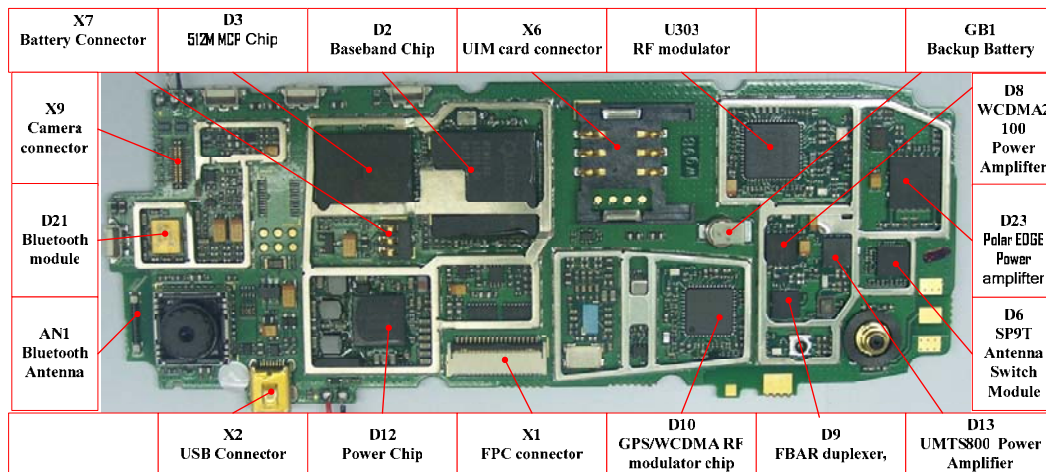


2.6 Working Principle Diagram



2.7 Hardware Compositions



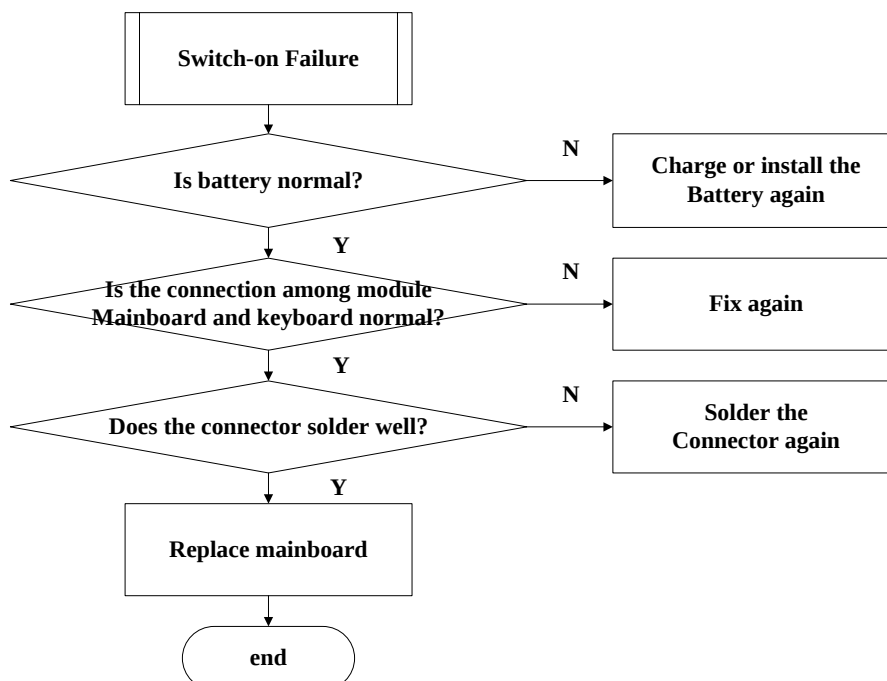


3. Basic flow chart of familiar troubleshooting (Level 1)

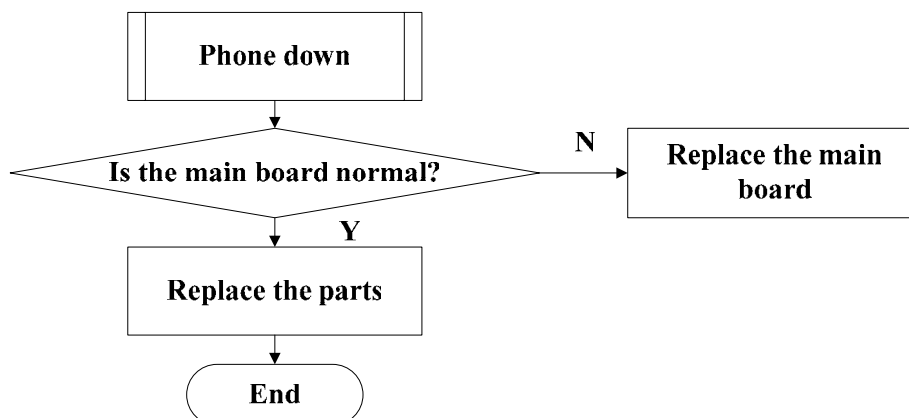
3.1 Structural Parts Failure

Please replace the structural parts consulting the disassembly flow.

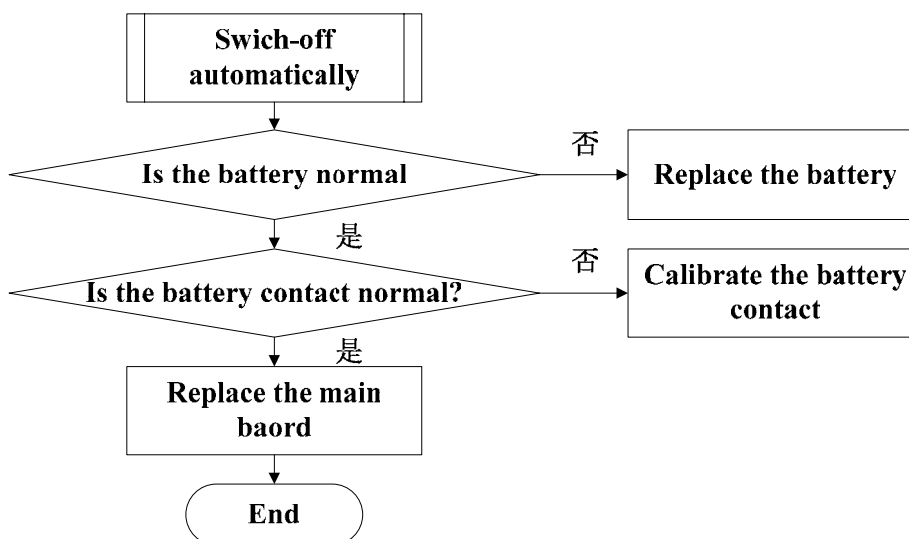
3.2 Switch-on Failure



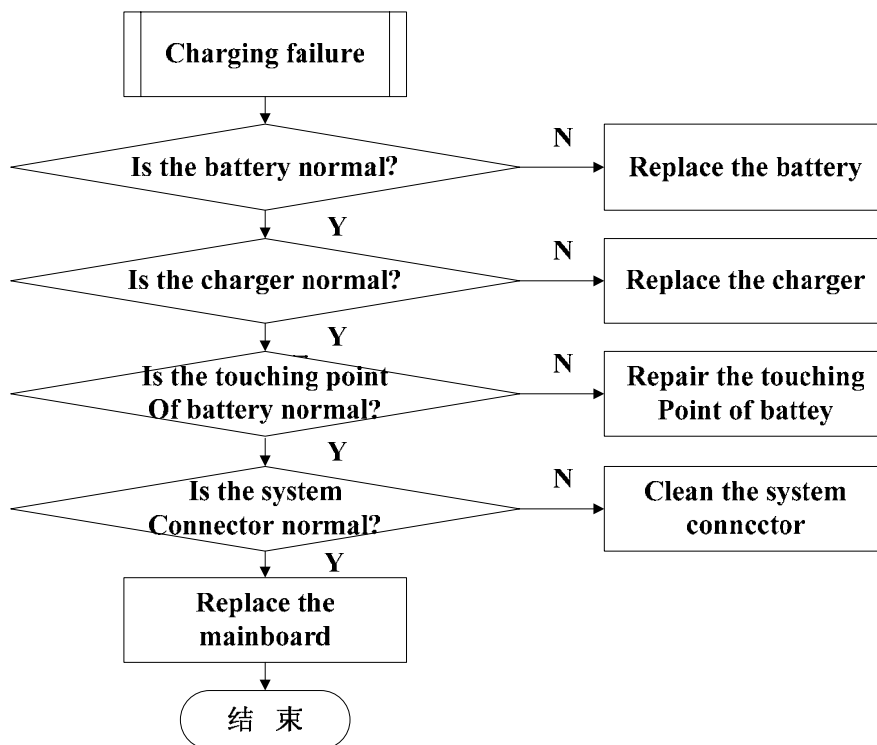
3.3 Phone Down



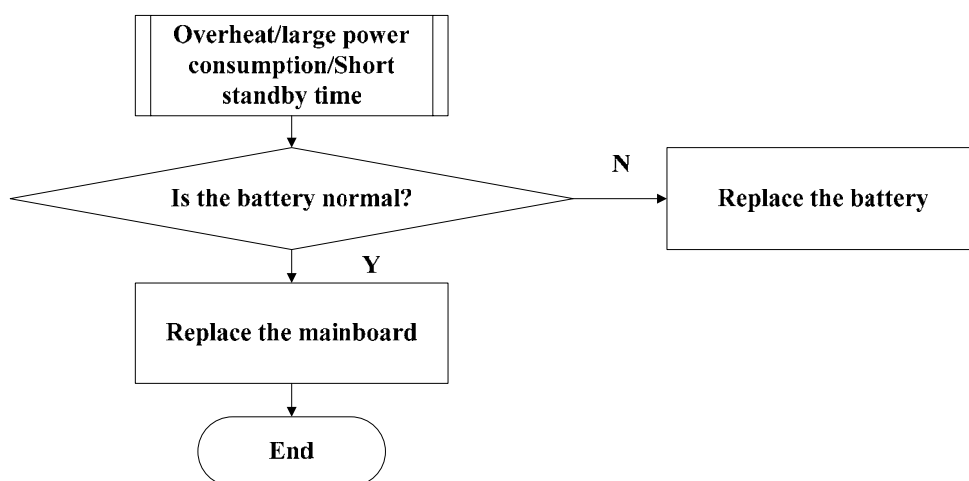
3.4 Switch-off Automatically



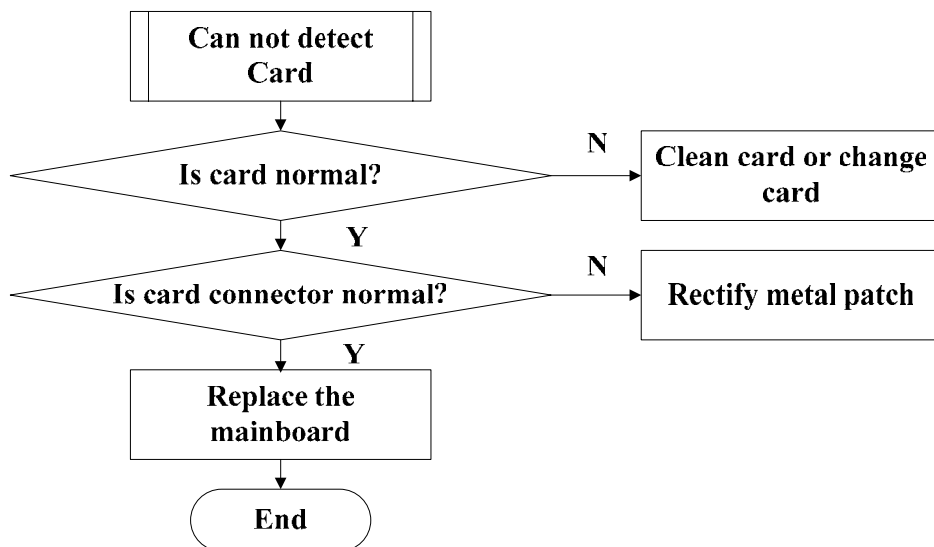
3.5 Charge Failure



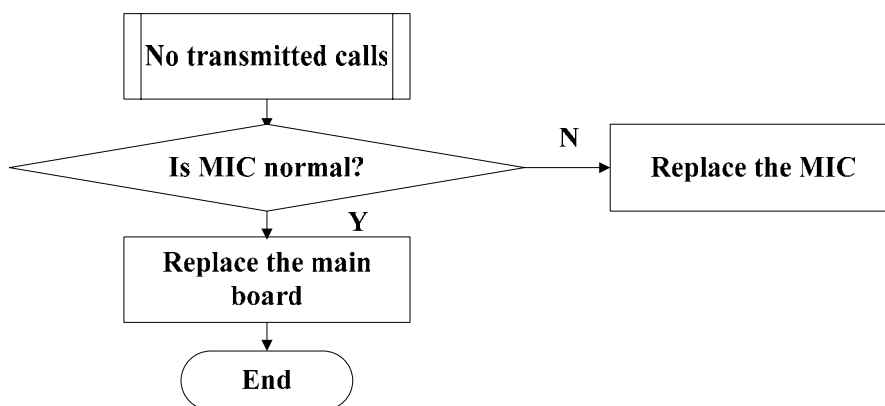
3.6 Overheat/Large Power Consumption/Short Standby Time



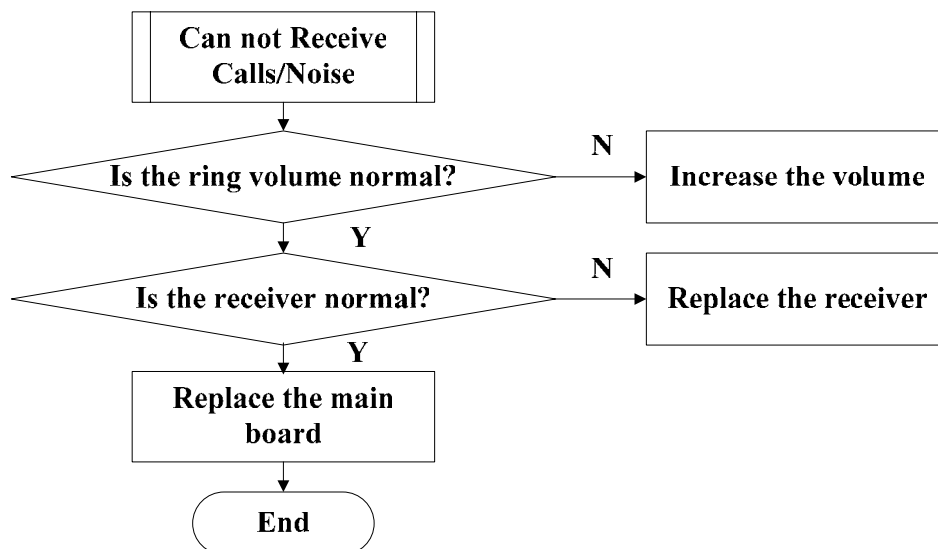
3.7 Identity Card Failure



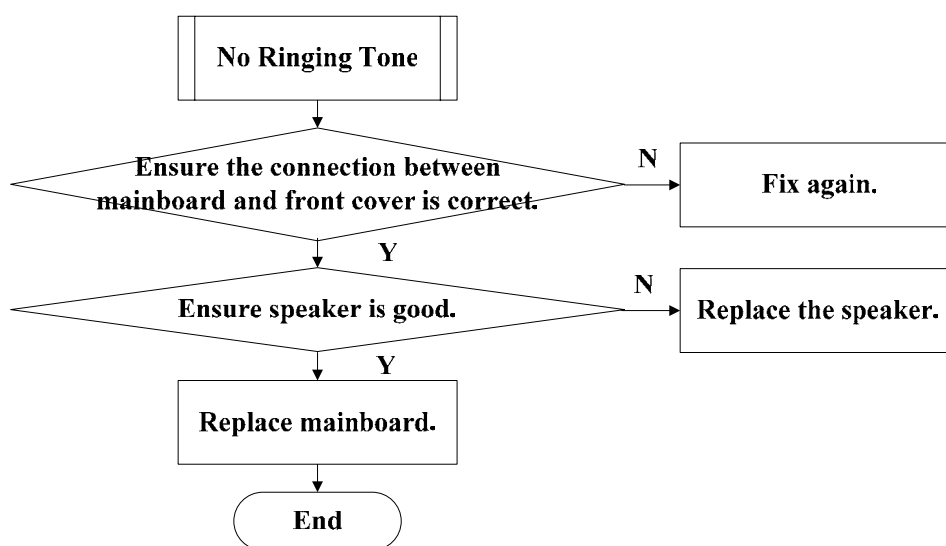
3.8 No Transmitted Calls



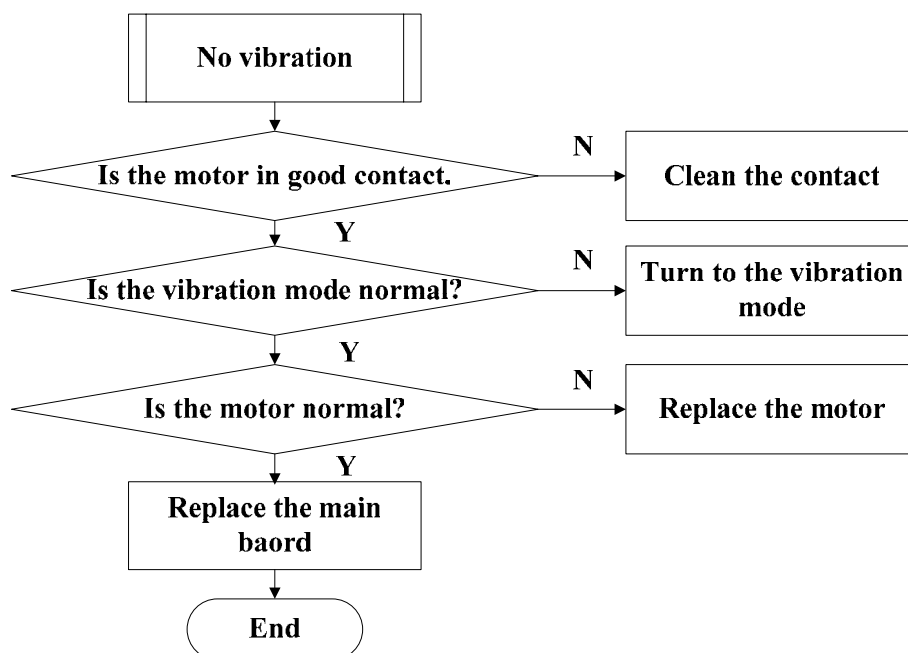
3.9 Can not Receive Calls/Noise



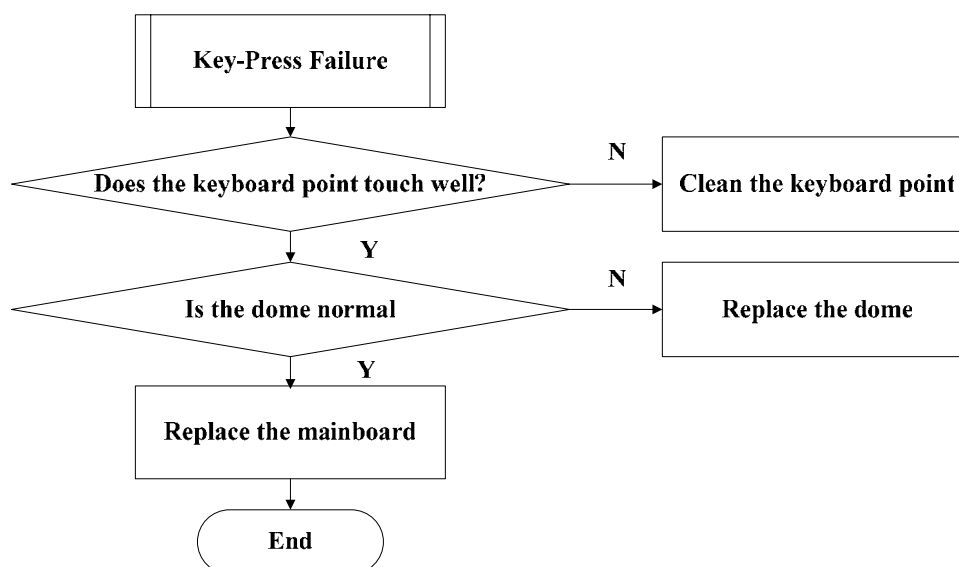
3.10 No/Low Ring



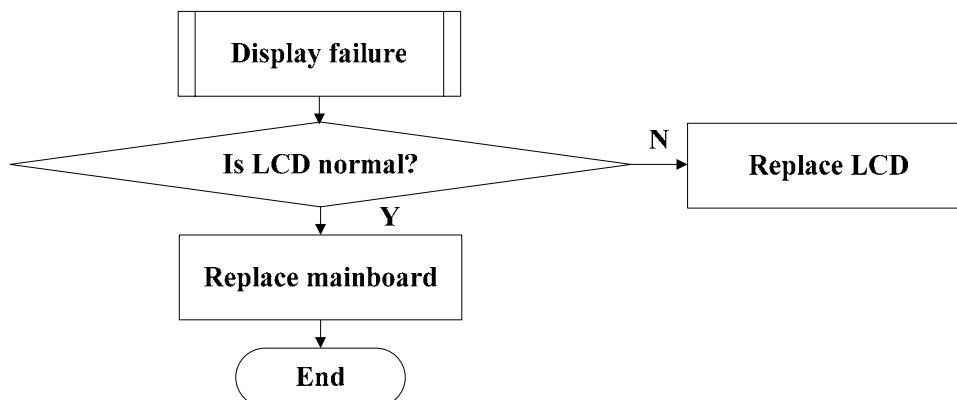
3.11 No Vibration



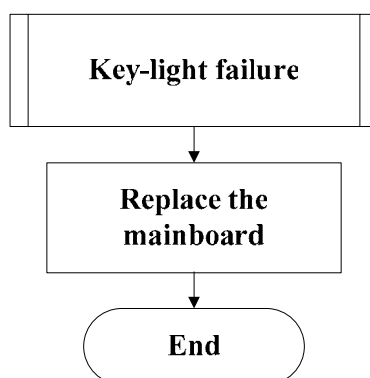
3.12 Key-Press Failure



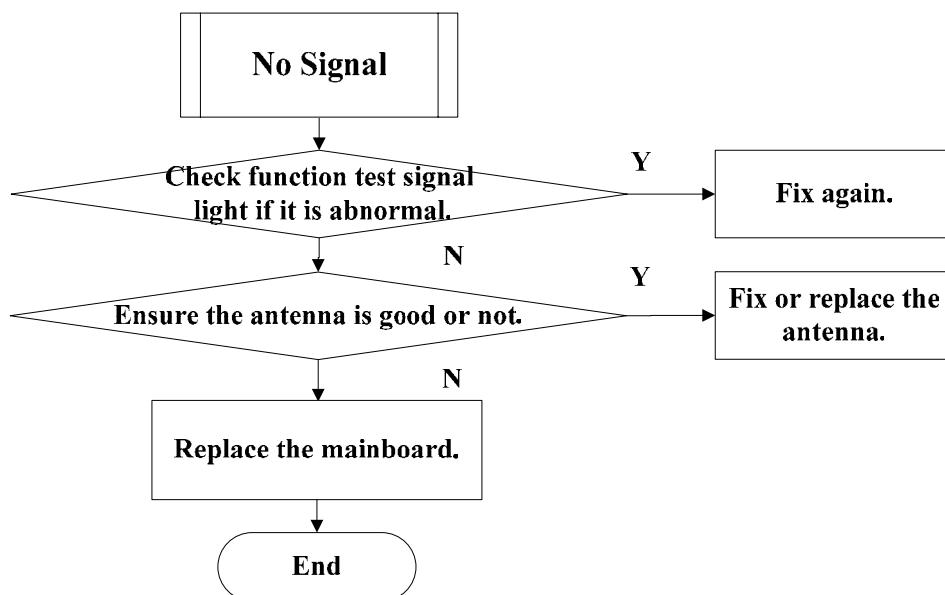
3.13 Display Failure



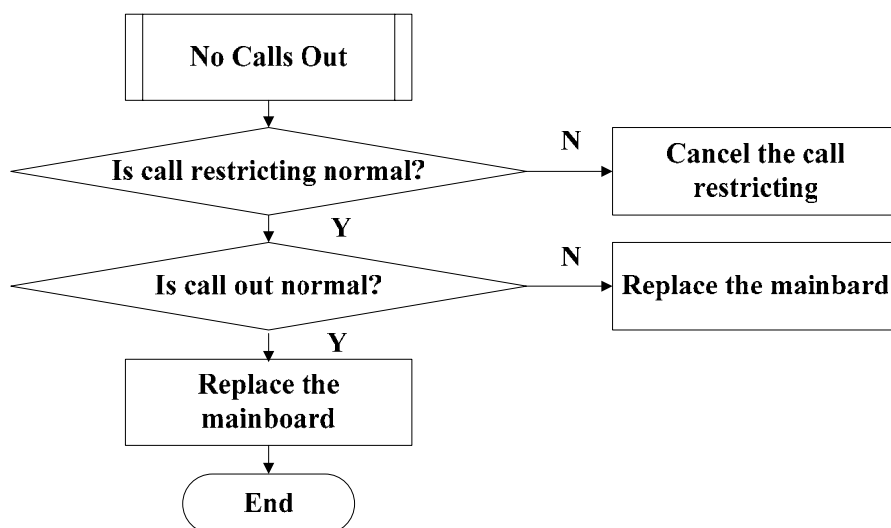
3.14 Key-light Failure



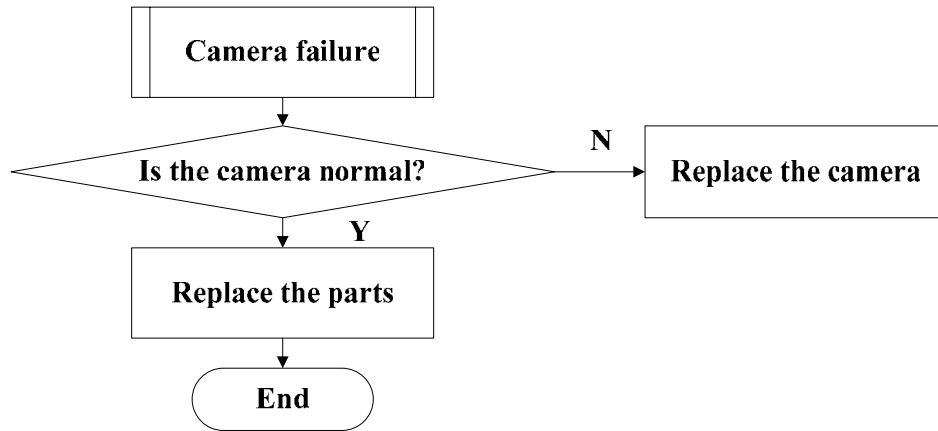
3.15 No Signal



3.16 No Call Out



3.17 Camera Failure



4. Part List

Code	Name
126762550001	P622A1 main board material list
55401002294	P622A1 front cover assembly
55401002295	P622A1 rear cover assembly
55401002297	P622A1 SP support assembly
55402000641	P622A1 keypad assembly
55402100014	P622A1 DOME
55403100080	P622A1 main lens
35070100002	R45C column motor
35040400025	0711 spring receiver
35040100045	30-L20 Speaker
350301000181	P622A1 LCD display module
50603300017	P607A1 camera module
50603300015	P909A2 camera module
35040300038	4015 contact microphone