LOGIN... TO GET INFO

FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance
could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. 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.

IMPORTANT NOTE:
FCC Radiation Exposure Statement:

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: 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.

SAR Caution

The SAR limit of USA (FCC) is 1.6W/kg Averaged over one gram of tissue. Device types Model Name (FCC ID :XPW-HMT5800RWG01) has also been tested against this SAR limit, This device conform to the SAR correlative standard .To maintain compliance with FCC RF exposure requirements,use accessories that maintain a fit separation distance between the user's body and the back of the handset ,The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure require-ments, and should be avoided.Specific Absorption Rate Data

Table of contents

Safety

Please read these simple rules. Failure to comply with these rules may be dangerous or illegal. This manual provides more detailed information on security.

INTERFERENCE   All wireless devices may be subject to interference, which could affect performance.

SWITCH OFF IN AIRCRAFT   Follow any restrictions, wireless devices can cause interference in aircraft.

SWITCH OFF WHEN REFUELING   Do not use in gas station, near fuel or chemicals.

SWITCH OFF IN BLASTING SITE   Follow any restrictions, do not use during blasting operation.

USE PROPERLY   Please keep 25CM away from the device when using the GPRS, WIFI, and R1000 module.

MAINTENANCE   Only qualified maintenance personnel may install or repair this device.

ACCESSORIES AND BATTERIES   Only use authorized accessories and battery, do not connect with incompatible products.

CONNECTION   When connecting with other devices, please read the manual for more safety precautions, do not connect the device with incompatible equipment.

WATERPROOF Slightly waterproof.

SHAKEPROOF This RFID mobile terminal (Handheld mobile terminal) has been tested against shakeproof experiments, achieves relevant standards, but the excessive vibration may still impair the product.

DUSTPROOF Dust control measures have been taken, but it's recommended to use in clean environment.

TOUCHSCREEN This device has a fragile LCD touch screen, so do not let hard object contact with the touch screen to avoid damage.

Accessories

Please open the package soon to check the parts and accessories after purchase.

- ❏ Main device
- ❏ A handle tray
- ❏ A battery
- ❏ A power adapter
- ❏ A power adapter cable
- ❏ A USB Line
- ❏ A manual
- ❏ An attendant CD
- ❏ A SD card

Assembly and installation

o Main body assembly: couple the handle tray to the device and push forward as follows, the assembly is done when you hear a sound.

o Battery assembly: open the battery cover as shown by Figure 1, fit into the battery, rotate the button to close the battery cover as shown in Figure 3.

1   2   3

o Connecting RFID Antenna: after the main device is done, insert the tray cable of the RFID antenna into the host port, and tighten it as shown.
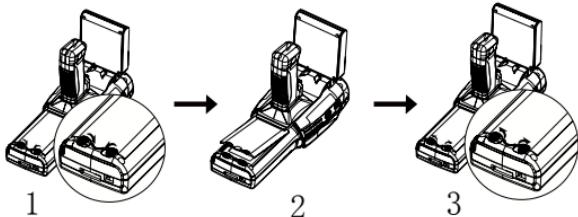
o The figure below shows the assembled device.

4 ⯈ Assembly and installation

Structure

R1000 module power switch
-Slide this button to power on/off the module

4.8-inch touch screen

GPRS WIFI switch

-Slide this key to switch on/off the GPRS and WIFI

Buzzer hole

Shortcuts

-Press [ ] to enter the RFID read/write interface
-Press [ ] to enter the camera function interface
-Press [ ] to enter the barcode scanning interface

Five-direction navigation key

-◄ ► Control the volume
-▲ ▼ Page up/down
-ENTER Confirm key

Letter keys

-Enter the letters A ~ Z

Power adapter port

Seat charger connector

Barcode scanner

Camera and flash

Power switch

-use this button to power on/off.

R1000 module port

MICRO SD card slot

USB port

Headphone port

Microphone port

Trigger switch (handle)

-Use this key for barcode scanning and
 radio frequency identification

Microphone hole

The Ctrl key is only used as a composite key
The Alt key is only used as a composite key
Hold down [ ] to enter the corresponding
symbols in number keys 0-9

The number keys

- 0-9 number keys, press and hold the
 "SHIFT" to input number 0-9, C for
 backspace key, click the "SHIFT" key then
 press the C button to open the key lights,
 repeat it to shut down them.

WISCAN

Operating system(OS)

Windows Embedded CE6.0

The RFID Handheld mobile terminal employs Windows Embedded CE6.0 OS, which is the base of the Microsoft embedded, mobile computing platform. The CE is an open, scalable 32-bit embedded OS designed for electronics such as Pocket PC. Its modular design allows users to customize the device according to their own needs.

Business module

R1000 read/write module

In line with the ISO18000-6C, EPC C1 Gen2 standards, with a working frequency range of 860-960MHz, this module can meet the management needs of different regions. As one of the important modules of the RFID Handheld mobile terminal, R1000 enables the RFID Handheld mobile terminal to read and write smart tags, its interface is simple, nice, convenient and efficient. Combined with powerful hardware, it can fast identify one or more tags and supports other operations such as read, write, lock, encrypt, and delete. The fetched data is shown in the list of software interface and easy to read and operate.

Camera Module

The camera allows the RFID Handheld mobile terminal to acquire videos and images. The camera software is simple, flexible and efficient. This high-definition camera can meet diverse production needs with clear pictures, smooth videos, and user-friendly operation.

GPRS Module

As a way to communicate for the RFID Handheld mobile terminal, GPRS is convenient and flexible, a powerful supplement for wireless network. It is suitable for outdoor and remote area communications operations, so the RFID Handheld mobile terminal can communicate remotely, as long as there is mobile signal. The combination of GPRS module and GPRS client allows fast Internet access. The GPRS client is flexible, easy to operate, quick and efficient, greatly increasing work efficiency.

Barcode scanning Module

This module allows the RFID Handheld mobile terminal for efficient and accurate identification of one-dimensional barcode. Integrated with the scanning module, the corresponding infrared scanning client can scan barcode and show the scanned data in the list of the main interface for customers to view and operate.

❏ WIFI Module

As the mainstream approach for wireless access, WIFI now has very wide application. Easy to build, flexible, with rich hotspots, WIFI network is very suitable for network applications of RFID Handheld mobile terminal. As an important means of communication for RFID Handheld mobile terminal, WIFI is fast and cost-effective for transmission, applicable to small-scale operations. With the help of WIFI client, users can easily search for available access points, and can quickly access the Internet.

Control panel

Internet options

Double-click the "Internet Options" icon in the control panel to call the "Internet Options" dialog box, the "General" tab is displayed by default. You can set the browser's home page and search page addresses. You can change user proxy in options below, but you need to restart the browser. You can set the size of "cache" in the input box below, the default value is 512KB. Click the "Clear Cache" button to empty the "cache". Click the "Clear History" button to clear browser history records.

Click "Connect" tab, "use LAN "is not selected by default, in this case, you can choose an automatic dial-up. Check "use LAN" to disable automatic dial-ups, therefore, the automatic dial-up name is not optional. Select the Use a proxy option, you can set the address and port. Select the radio button at the bottom of the dialog box so that local addresses do not use a proxy server.

Click the "Security" tab to set "Internet", "Local Internet", "Trusted sites", and "Restricted sites". Click specific icon, and then click the "Sites" button under the dialog

box to add corresponding web sites. Click the "Settings" button to set up accordingly.

Click the "Privacy" tab to change the "Cookie" settings. By default, the option for "First-party Cookie" is "Accept", for "Third-party Cookie" is "Prompt". You can change the settings if you need. Select the radio button below to set if the session Cookies are always allowed. Click the "Advanced", you can see "Accessibility", "Browsing", "Multimedia", and "Security" to change more detailed settings. Click the OK button to apply the settings.

Click "Pop-up " tab, select " Prevent pop-up ", then you can click the " Exceptional " button and the "Advanced" button to add corresponding Web sites and make detailed changes. Click the radio button below to choose whether or not to show prevented pop-ups, as well as whether or not to open a new interface in current window.

PC Connection

Click "PC Connection" icon, you can see the "PC Connection Properties" pop-up. The default is "USB" connection. To change the connection, click the "Change connection" button, select connection as

needed.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Stylus calibration

After the touch screen is used for some time, there will be some location offsets for the touch spots, at this time, you need to calibrate the touch screen. Click the "Stylus" in control panel, you can see "Stylus Properties" pop-ups.

Select "Calibration", click "re-calibration" button to enter the calibration interface. According to interface prompt, click the white spot in the center of the black cross, perform positioning in the mid-point of the screen, the upper right corner, the upper left corner, the lower left corner, and the lower right corner respectively.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Memory card manager

Double-click "Storage Manager" icon in control panel, you can see the "Storage properties" pop-up. DSK1 is

selected and displayed by default, from the drop-down menu you can choose other disks, click the "Format" button to format a disk. Click the "Remove" button to uninstall a disk. In the "Partition" box below, you can partition a disk to manage. Click "New" button to create a new partition, click the "Delete" button to delete a partition, click "Properties" button, to choose other tools for partition.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Power supply

Double-click the "Power" icon in the control panel, you can see the "Power Properties" pop-up. The "Batteries" tab is displayed by default. Here, you can view the status of the battery and power state.

Click "Scenario" tab, either using battery or external power, you can set the waiting time for the system to switch to user idle, system idle, and suspended state, so that you can save energy and the device can work longer.

Click the "Device Status" tab, you can view details of the state of power supply.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Keyboard

Select control panel, "Keyboard", and "Keyboard Properties", check "Allow duplicate characters" to allow characters to repeat. You can adjust the "Repeat delay" and "Repeat speed" sliders below to change settings and test in the box below.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Password settings

Select control panel, "Password", "Password Properties". Input the password in the password box, and input the same password in the confirmation box. Then you can choose when to use the password, select the first radio button for the boot password, the second for the screen saver password, each starts at boot time and when resuming the screensaver respectively.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Regional settings

Double-click the "Regional Settings" icon in the control panel, you can see the "Regional and Language Settings" pop-up. The default is the "Regional" tab, you can change the region.

Click "Language" tab to select interface language, which will be used in the menus, dialog boxes, and warnings.

Click the "Input" tab, select the default input language after the device boots. And then select the installed input language that you want.
Once the settings are finished, click "OK" in the upper right corner to save and exit.

Date / time

Select control panel, "Date / Time", "Date / Time Properties" dialog box. Select the appropriate time zone, and set the correct system date and time.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Delete programs

Select control panel, "Delete Programs" icon, and "Remove Programs" dialog box, find the program you want to uninstall in the program list, click the "Delete" button to remove the program.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Input panel

Double-click the "Input Panel" icon in the control panel, you will see the "Input Panel Properties" pop-up, you can select the input method you need here.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Mouse

Select control panel, "Mouse", "Mouse Properties", you can test the performance of double-click in the "Double-click" tab. Double-click the grid to set up the speed sensitivity and physical distance sensitivity of double-click, use the icon below for double-set testing.
Once the settings are finished, click "OK" in the upper right corner to save and exit.

Owner

Select control panel, "Owner" , "Owner properties". By default the "ID" tab is displayed, you can enter name, address and so on. Select the "Show owner ID" to show the owner identification information when the device boots up.

Click the "Remarks" tab, you can input notes. Select "Show owner remarks" to show the owner remarks when booting.

Click the "Network ID" tab to set up the right of access to network resources. Such as: user name, password and domain.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Network and Dial-up connections

Please refer to the following "GPRS connection and use."

System

Double-click "System" in the control panel to pop up

the "System Properties" box. By default the "General" tab is displayed, you can see the processor type, the expansion slot type, memory size, as well as registration information below.

Click "Memory" tab, use the slider to adjust the storage memory and program memory size. Slide left to use more memory to run programs, slide right to retain more storage space. The distribution of memory is shown below.

Click the "Device name" tab, you can enter the device name and description.

Click the "Copyright" tab to check copyright information.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Display

Double-click the "Display" icon in the control panel to show the "Display Properties" pop-up. "Background" tab is activated by default. You can choose background image as desktop wallpaper, or you can click the "Browse" button to select one in the storage. Select the radio option below, the image will be tiled on the desktop.

Click the "Appearance" tab to select the Windows color scheme, current scheme is displayed by default. When you change the settings, you can save, delete or apply the new scheme by clicking the "Save", "Delete" or "Apply" button. Select the "Items" below to set up the color scheme for desktop, the button text, menu background and so on. Click the color lump on the right to customize the color.

Click the "Background Light" tab to set up the background light. You can set up the self-closing time when the system is idle, either using the battery or external power supply.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Volume & Sounds

Double-click the "Volume and sound" icon in the control panel to show the "Volume and sound properties" pop-up, the "Volume" tab is displayed by default, use the slider to adjust the volume, left to turn down, right to turn up. Use the radio button below to turn on/off the system sounds, and turn up/down the button volume.

Click the "Sound" tab to preview and set up sounds for

a variety of system actions, click the play button to preview, click the stop button to stop. Click the "Save as" button to pop up the Save Settings dialog box to save the sound scheme, click the "Delete" button to remove it.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Dialing

Double-click the "Dialing" icon to pops up the "Dialing Properties" dialog box. Select Dial-up position, you can click "New" button to create a new location, or you can click the "Delete" button to remove the dial-up location. Below, You can enter the local dial-up location information in the input box below, you can also click the "Dial-up mode" button to show the "Dial-up mode" pop-up for further dialog settings. After the settings are done, you can select dial-up method: audio or pulse. Use the radio button below to set up the number used to cancel call waiting function.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Certificates

Double-click "Certificates" icon in the control panel to show the "Certificate" dialog box. You can set up trusted issuing agencies, my certificates, and other issuing agencies in the default "Storage" option. You can manage the agencies and certificates in the list below. Click "Import", "View" and "Delete" button to import, check and remove items.

Once the settings are finished, click "OK" in the upper right corner to save and exit.

Media Player

Media Player button Introduction

When playing a file, the "Play" button ▷ will become the "Pause" button ⏸ (unless there is a live streaming event).

Click the ⏹ button to stop playing, the progress bar will return to the starting position.

Click the ⏮ button to go to previous item, click the ◁ button to slow down, click the ▷ button to speed up, click the ⏭ button to move to the next item.

Click the 🔇 button, the player will go to the mute state, click again to resume. Move the slider on ▬▬◆ to adjust volume, increasing from left to right.

Slider on the progress bar ▬▬◆▬▬▬ moves from left to right, you can also move the slider to locate, rewind or fast forward by hand.

File operations

Open the main menu, select "File", "Open", "Open URL" dialog box. You can input a path to open a file directly, or click "Browse" button to select a path from the "Open" pop-up.

Open then main menu, select "File", "Close", to close a playing item.

Click "File" in the main menu, select "Playlists" to play the items in a play list in turn.

Open the main menu, select "File", "Favorites" to set up items you like, you can add items to the favorite list and edit it. Playing history will be displayed below the dividing line.

Click "Exit" in the main menu to shut down the player.

Player display and settings

Click "View" in the main menu, select "Zoom" in the pop-up menu to zoom in/out, you can choose from 50%, 100%, and 200%.

Click "View" in the main menu, select " Full Screen " to occupy the entire screen, achieving full-screen effects.

Click "View" in the main menu, select " Statistics " in the pop-up menu to show the detail information of an item.

Click "View" in the main menu, select " Properties " in the pop-up menu to show the detail information of an item.

Click "View" in the main menu, select " Options " in the pop-up menu to show the dialog box. You can set up buffer time, replay mode, zoom ratio, and other settings. The input box below also allows the media item to be shared online.

WISCAN

R1000 read/write module

Note: Open the PA switch in the upper-left corner before start the client

File

You can open, save a document, and perform other daily tasks; build and cut communications, and exit programs.

- Open a stored document and show it in the list.
- Save the data in the list to the specified path with specified format.
- Connect with the server, you can connect by entering the server's IP address and port number, or verify connectivity by sending a string of characters to interact with the server.
- Exit current connection status.
- Quit the program.

Edit

Mainly used for data operations. Such as the deletion of a line of data, or delete all the data.

View

Mainly used to change the language and view settings of software.

- Language: switch the interface language to Chinese or English.
- Hide: the floating window sometimes covers part of the data, this function can hide/ display the floating window.

Tools

Mainly are operations of the R1000 module, such as tag scanning, reading, writing, locking, and deleting.

- Inquire now: scan the tag continuously. After running, the antenna will scan the tag constantly until the scanning is done.
- Inquire once: perform a single tag scanning. After running, it will scan a tag once, and return to readiness.

- **Read tag:** read data on the tag to get access to information such as the data format.
- **Write tag:** write data to the tag with a certain format.
- **Lock tag:** lock a tag in the form of read-only.
- **Clear tag:** remove the tag, clear all data in the tag, so that you can not read or write the tag.

Settings

Mainly are operations of the R1000 module.

- **Encryption settings:** this feature only has a reserved interface, not been realized yet.
- **Read settings:** set up the content, location, length and other parameters of the tag to read.

Help

- **Hardware update:** mainly upgrade the firmware. This feature has a reserved interface.
- **Software update:** mainly upgrade the client software. This feature has a reserved interface.
- **About:** shows the version of software, copyright, company profile, and other public information.

Camera Module

Press the "Camera" shortcut or the 🔲 button in the navigation desktop to enter the preview mode.

Photo

Press the 🔲 button in the preview state to take and display a photo, you will be prompted to "Save" or "Abandon" the picture.

🔲 : Save, save the photo to the default path: \ NadnFlash \ photo. You will go back to the preview interface once the photo is saved.

🔲 : Cancel. Back to the preview interface.

Note: when there is a SD card in the device, the photos are automatically saved in the "photo" folder of the SD card.

Video

❏ **Control touch screen**
In the preview mode, press the 🔲 button to start video recording, you can see the record time, and press the 🔲 button to stop and save the video,

and the time will return to the zero setting. Video files are stored in the default path of \ NadnFlash \ video.

> Note: when there is a SD card in the device, the videos are automatically saved in the video folder of the SD card.

AF

❑ In the preview/video mode, click the 🔆 button to auto focus for one time.

Exit

❑ Click the 🔁 button in the camera interface to exit the camera function.

Barcode scanning module

Serial port settings

You need to set up the serial port when you run this program for the first time, click "File" , and press the ❌ to show the "Settings" dialog box, click the "Default configuration" to set up the serial port in accordance with the default parameters. Click "Confirm" to close the dialog box, the program will finish the configuration accordingly. (The serial port has been configured in factory, this step can be omitted)

Launch equipment

After it's launched, this program will automatically configure the serial port, open the serial port, and open the equipment, you can also click this menu to re-open the equipment if it is turned off during work.

Scan

You can perform a scan task when the serial port is open. Select "Tools", click 📶 "Scan" in the pop-up,

the infrared scanner will start to run, and displays the scanned data in the main display. You can also perform a scan by press the trigger switch in the handle.

Data storage and open

❑ **Save file**
When the data is displayed in the main window, click "File", and then 💾 "Save document", the data will be saved with a specific format to a specified folder.

❑ **Open file**
Click "File", 📂 "Open File", select the file in the main window of my device, click "OK", you can open and display the document in the window.

Clear scan data

❑ **Clear All**
Click "Edit", ▨ " Clear all ", and then a pop-up will prompt to prevent data loss caused by misoperation. Click "Yes" button to erase all data on the main window. Click "No" button to cancel the deletion.

❑ **Clear a line**
Select the data to delete, Click "Edit", ▦
" Clear a line ", then a pop-up will prompt to prevent data loss caused by misoperation. Click "Yes" button to erase selected data. Click "No" button to cancel the deletion.

Switch between Chinese and English

Click "Language", "English" to switch from Chinese interface to English interface.

Help

In case of problems when using the client, you can turn to the client help documentation for answers.

- Click ❓ "Help" in the "Help" menu to show the help document, you can find relevant information here. This feature has a reserved interface.
- Click "Help", 🔱 "About" to display the software version, copyright, company profile, and other information.

GPRS Module

Note: turn on the GPRS switch in the middle of the device before you start the client

Establish GPRS connection

Click th logo in the bottom left corner of the desktop, select Settings> Network and Dial-up connections.

Make New Connection> Enter connection name> Check the Dial-up connection> Next> Select modem
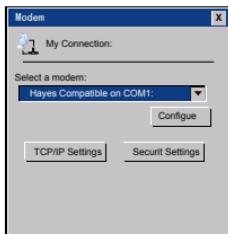
Click configuration, fill in values, you can choose baud rate from 9600 and 19200, select "None" in the flow control option. Select "Device properties" > "Dial-up option", and then add following command in the additional settings: + CGDCONT = 1, "IP", "CMNET". Click "OK" button to complete the setting.
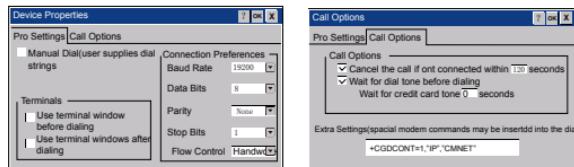

Select "Modem" > "TCP / IP Settings", leave "Conventional" and "Server name" by default, click "OK" to complete.
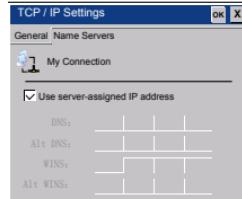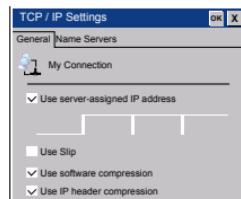
Select "Modem" > "Security settings" to show "Security settings" dialog box, select the default state. "Use data encryption" and "Use extensible authentication protocol" are not selected by default, check the rest. Click "OK" to complete.
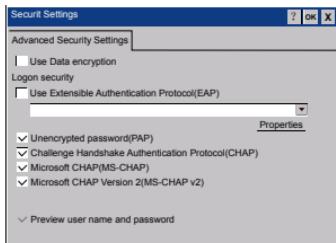
Click "Next" to show "Telephone number" dialog box. Fill in 86 in "Country", fill in 10 in "District code", * 99 *** 1 # in "Phone number", and the rest are not selected by default. Click the "Finish" button to complete all settings. You create a new connection at this time.
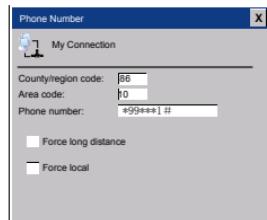
Double-click the connection, to show "Dial-up connection" dialog box. Maintain the default status, do not fill anything.
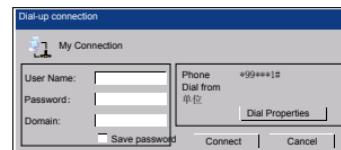
Click "Dial-up connection" >"Dialing properties", the settings are as follows, click "Dialing properties" > "Dial-up mode", fill all three with "G", or fill in the first with "G" and click "OK" to complete the setup.
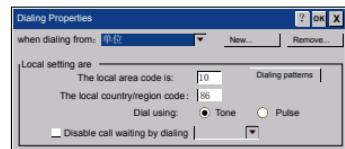
Single click dialing mode
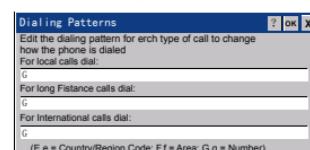
Return to "Dial-up connection", click "Connect", you can see the "My connection status" dialog box after a successful connection, there will be a "Connected" icon in the bottom right corner of system tray.


Click to dial
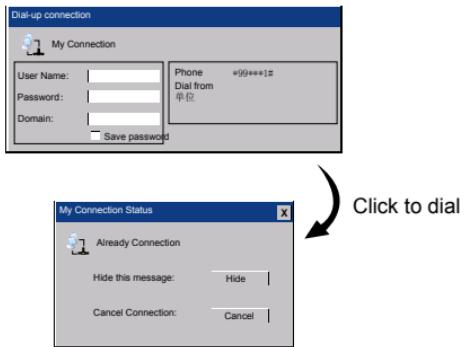
If you see "Port not available" when dialing, please change the baud rate 19200 to 9600, or check if the additional command settings are + CGDCONT = 1, "IP", "CMNET". If you see "No carrier signal", please check if the first option of the dial-up properties is "G"

WIFI Module

① Switch on the WIFI equipment.

② You can see the Wireless information pop-up (or you can double-click the network connection icon in the tray in "my device" window to show the pop-up), the list will automatically search for local hot spots available.

③ Select access point, click the Connect button to show the wireless network properties dialog box.

④ Select appropriate encryption and authentication methods, enter the key of the access point, and click the confirm button.

⑤ Once you pass the authentication, you will be connected, and you can see the connected network icon in the tray.

For relevant parameters needed to set up the connection, ask the network administrator in charge of the wireless access point.

Key tips for usage

Use RFID Handheld mobile terminal properly

Before using the RFID Handheld mobile terminal, you should read the manual carefully. You also should pay attention to the following areas:

❏ Before you boot the device, check if the antenna is damaged, the cable is tightened, and the installation is close.
❏ When scanning, ensure that tags are in the effective range of the RFID Handheld mobile terminal.
❏ When using the GPRS communication, please ensure that there is mobile signal coverage. In case of poor signal quality, choose a higher position with strong signal, and reduce the block of buildings between the RFID Handheld mobile terminal and the base stations. When using the GPRS in an enclosed environment, you'd better get close to window sill and exit to ensure continuous signal.
❏ When you communicate via WIFI, select an access point with good signal as far as possible, and ensure that the RFID Handheld mobile terminal is covered by hot spots to prevent signal interruption.

Battery use and maintenance

❏ The RFID Handheld mobile terminal is powered by a lithium battery. The battery has larger capacity, so it has a larger size and a heavier weight as well. The battery life not only relates to the battery capacity, but also to the power settings of the RFID Handheld mobile terminal. When the power is lower to an extent, you need to charge it. Both charging and discharging should be at room temperature environment.
❏ The lithium battery has no memory effect, so you don't have to activate it, just charge it normally for the first time. Please charge it soon when the system prompts low power. Charge the battery before the device automatically shuts down, or battery life will be affected. Charging timely during use can keep the battery in the best condition.

Recharging

❏ When the battery power is too low to work, the RFID Handheld mobile terminal will prompt you to recharge the battery. Replace it if you have spare batteries and recharge it timely. When the battery is in low-voltage state, it will not enable the RFID Handheld mobile terminal to work normally.

Safety

❏ Keep the charger and part-failure batteries away from high-temperature environments.

❏ Do not replace the original charger with unauthorized chargers.

❏ Before charging, check if the metal contacts of the RFID Handheld mobile terminal are contaminated, if there is short-circuit, and make sure the reeds of the charger seat are well connected with the metal contacts.

❏ If a battery can not work normally after long time charging, its life may have reached the limit, you need to replace it with a new one, and recycle the old one, do not discard it at will.

❏ Be sure to turn off the RFID Handheld mobile terminal and disconnect the charger before you remove the battery. Pull the charger out of the power outlet and the RFID Handheld mobile terminal when it's not in use.

❏ Do not short-circuit the battery, metal objects (such as keys, coins, etc.) in direct contact with the battery positive (+) and negative (-) may cause short-circuit, which will damage the battery or other items.

❏ For your safety, please use only standard original batteries and chargers for the RFID Handheld mobile terminal.

24 ⯈ Key tips for usage

Charging method

❏ Put the charger on airy, dry, and stable table, there should be no paper, cotton, rags and other flammable articles around.

❏ Plug the charger into a 100-240V AC power outlet, contact the plug with the socket safely and tightly.

❏ If you use a seat charger, put the RFID Handheld mobile terminal on the charger, make sure the device contacts in close contact with the reeds of the charger. At this point the light should be always on. If you use a direct charger, please insert the attaching plug into an AC power outlet, and then plug the charging end into the charging port of the RFID Handheld mobile terminal .

❏ Generally speaking, you can remove the battery after 3-4 hours charging or more.

❏ Unplug the charger plug from the outlet. If you need to charge another RFID Handheld mobile terminal, it's safe to replug the charger when it cools down. .

Night charge

❏ If you use the RFID Handheld mobile terminal during the day, no time to recharge, you can charge it at night. In this way, four hours charging is enough. Do not worry about over charge, the handset has protection for over charge.

Replace battery

❏ When the battery is as low as the protection level, or reach the battery life, you need to replace it with a good battery. The battery is heavier due to its larger size. To remove the battery, hold the RFID Handheld mobile terminal with one hand, and rotate the cover button with another hand, lift the battery lightly from the slot after the cover is open. To set up the battery, align the battery slot with the slot holder on the RFID Handheld mobile terminal, gently push it forward to ensure it's in good contact with the metal contacts, and then recover the battery cover so that the battery cover closely integrated with the body.

Notes on battery storage

Attention should be paid to the battery storage as follows:

❏ Do not put the batteries in dangerous places. When you remove/install the batteries, exposure to electric sparks may cause an explosion.
❏ Batteries should not be thrown into the fire, otherwise they will cause an explosion. Damaged batteries may also lead to an explosion. Dispose the batteries according to local laws and regulations. Recycle the batteries as much as possible, do not discard them as waste.

❏ Avoid short-circuit. Short-circuit as a result of reed falling and other accidents will destroy the battery, it also can cause serious fire.
❏ Do not dismantle, cut, open, extrude, distort, deform, impale, or crumble the battery or its core. In the case of battery leakage, prevent seepage of liquid from contacting with your skin or eyes. If the leak occurs, immediately wash your skin or eyes with fresh water, or seek medical assistance.
❏ Do not modify, remake the batteries, do not try to insert other objects into batteries, and do not let the batteries immersed in or exposed to water or other liquids.
❏ Inappropriate use of batteries may cause fire, explosion or other hazards. If the RFID Handheld mobile terminal or the battery drops off, particularly onto hard surface, and you believe that the battery has been damaged, send it to us for inspection before you use it again.

RFID Handheld mobile terminal daily maintenance and repair

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- ❏ Please keep the RFID Handheld mobile terminal clean and dry, rain, moisture and all kinds of liquids or water may contain minerals that corrode the circuit. If the handset is wet, please remove the battery, and put it back when the RFID Handheld mobile terminal dries out.
- ❏ Please keep the RFID Handheld mobile terminal away from dusty and dirty place, do not use it in such environments. Mobile type parts and electronic components can be damaged easily.
- ❏ Do not put the handset in high temperature. High temperature may shorten life of electronic devices, damage the battery, distort or melt plastic parts.
- ❏ Do not put the handset in low temperature. Or, when the device goes back to its normal temperature, there may be moisture inside that damages circuit board.
- ❏ Do not attempt to dismantle the RFID Handheld mobile terminal, it violates the manual.
- ❏ Do not throw, knock or shake the device. Abuse of the device may disrupt the internal circuit board and its precise structure.
- ❏ Do not clean the RFID Handheld mobile terminal with irritant chemicals, cleaning solvent, or corrosive cleaner.
- ❏ Do not paint the device. Coating may interfere with the movable parts, leading to bad contact or signal interference, affecting the normal use.

- ❏ Clean the lens with soft, dry and clean cloth.
- ❏ Use only built-in and approved antenna. Unauthorized antenna, modification of other parts may disrupt the RFID Handheld mobile terminal, and may violate relevant laws and regulations for wireless devices.
- ❏ Please use charger at indoor.
- ❏ Backup the data you want to keep regularly.
- ❏ Do not touch the screen with hard objects when using the RFID Handheld mobile terminal, it may cause bad points. In case of location offsets, turn to the system locator for touch-screen calibration.
- ❏ Contact with the touch-screen with fingers, pen or other items, but not with sharp objects.
- ❏ Keep the antenna and the RFID Handheld mobile terminal cable from being scratched by hard objects, or they may not ork normally.

Troubleshooting

See "Port disabled" when using GPRS dial-up
- Please change the baud rate from 19200 to 9600, or check if the additional command settings are + CGDCONT = 1, "IP", "CMNET".

See "No carrier signal" when dialing
- Please check if the first option of the dial-up properties is "G"

Fail to start the RFID Handheld mobile terminal, no screen light
- Please check the battery. Replace the battery or connect to the external power.

Can not connect to network when using the WIFI of the RFID Handheld mobile terminal
- Please check the AP signal strength and AP configuration.

Fail to open the port when the RFID Handheld mobile terminal is scanning
- Please check whether the port is set up. Click " Document " >"Settings" or "Settings" on the toolbar , click the default configuration and apply.

No sound when playing video and audio
- Please check the player volume settings, or select "control panel" > " Volume and sound" dialog box, and check the volume settings.

The stylus contact offsets the actual contact
- The stylus needs calibration, please refer to the manual for calibration method.

Time display error when using the camera,
- Please check the system time.

When using the R1000 module, the floating button is gray, does not work
- Please make sure the R1000 module is started before you launch the client.

When linking the RFID Handheld mobile terminal with PC via USB, the PC cannot identify the Handheld mobile terminal
- Please check whether you have installed the ActiveSync program from the RFID CD in the PC .

Warranty certificate

Warranty ordinance:
1. Users can enjoy legitimate rights and interests by use of invoice and this certificate.
2. The devices can be returned within 7days, or replaced within15 days in case of quality problems, the whole equipment can enjoy guarantee service for one year.
3. Users can not enjoy the three guarantees in following cases: .
   (1) failures caused by improper use and safekeeping,
   (2) damage as a result of dismantling the machine by the user,
   (3) beyond warranty period,
   (4) repair warranty certificate is not in line with the product type.

User Name		Maintenance Date			
Phone		Maintenance record	Failure	Maintenance State	Maintenance personnel
Postal Code					
Full address					
Purchase store					
Purchase date					
Model					
Machine code					
Invoice number					