

Rugged Tablet PC SR820



Manual



Index

<i>Copyright Notice</i>	<i>iii</i>
<i>Declaration of Conformity</i>	<i>iii</i>
<i>Important Safety Instructions</i>	<i>iv</i>
<i>Disposing of Your Old Product</i>	<i>v</i>

Chapter 1 Introduction

<i>Getting Started</i>	<i>2</i>
<i>Safety and Maintenance</i>	<i>3</i>
<i>Check Lists</i>	<i>4</i>
<i>Features</i>	<i>5</i>
<i>Where to look for Information</i>	<i>7</i>
<i>Quick Start</i>	<i>8</i>
<i>Load Windows</i>	<i>10</i>

Chapter 2 Getting Start

<i>Hardware and Software</i>	<i>14</i>
<i>Hot Keys</i>	<i>20</i>
<i>Storage</i>	<i>21</i>
<i>The SD Card Slot</i>	<i>22</i>
<i>SIM Card Slot</i>	<i>23</i>

Chapter 3 Power Management

<i>Power Management</i>	<i>25</i>
<i>When to Replace the Battery</i>	<i>29</i>
<i>Thermal Considerations</i>	<i>30</i>

Chapter 4 System Software

<i>System Software</i>	<i>32</i>
<i>System Recovery</i>	<i>32</i>

Chapter 5 Utilities and Optional Devices

Utility List.....39
Bluetooth40
WLAN.....42
GPS.....45
Barcode Scanner.....47
Camera Module.....49

Appendix

Statements.....52
Safety Caution.....53
Important Safety Instructions.....53
Canadian Department of Communications53
Caution For Adatper.....54
Battery Caution54

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This document contains proprietary information protected by copyright. All rights are reserved. No part of this manual may be reproduced by any mechanical, electronic, or other means in any form without prior written permission of the manufacturer.

Declaration of Conformity

CE Class B

This product has passed the CE test for environmental specifications when shielded cables are used for external wiring. We recommend the use of shielded cables. This kind of cable is available from ARBOR. Please contact your local supplier for ordering information.

This product has passed the CE test for environmental specifications. Test conditions for passing included the equipment being operated within an industrial enclosure. In order to protect the product from being damaged by ESD (Electrostatic Discharge) and EMI leakage, we strongly recommend the use of CE-compliant industrial enclosure products.

FCC Class B

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.

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 when the equipment is operated in a residential environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Important Safety Instructions

Read these safety instructions carefully

1. Read all cautions and warnings on the equipment.
2. Place this equipment on a reliable surface when installing. Dropping it or letting it fall may cause damage
3. Make sure the correct voltage is connected to the equipment.
4. For pluggable equipment, the socket outlet should be near the equipment and should be easily accessible.
5. Keep this equipment away from humidity.
6. Disconnect this equipment from the A/C outlet before cleaning it. Use a moist cloth. Do not use liquid or sprayed detergent for cleaning.
7. Do not scratch or rub the screen with a hard object.
8. Never use any of the solvents, such as Thinner Spray-type cleaner, Wax, Benzene, Abrasive cleaner, Acid or Alkaline solvent, on the Medical Display. Harsh chemicals may cause damage to the cabinet and the touch sensor.
9. Remove dirt with a lightly moistened cloth and a mild solvent detergent. Then wipe the cabinet with a soft dry cloth.
10. The openings on the enclosure are for air convection and protect the equipment from overheating. **DO NOT COVER THE OPENINGS.**
11. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
12. If the equipment will not be used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
13. Never pour any liquid into openings. This may cause fire or electrical shock.
14. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
15. If one of the following situations arises, get the equipment checked by service personnel:
 - a. The power cord or plug is damaged.
 - b. Liquid has penetrated into the equipment.
 - c. The equipment has been exposed to moisture.
 - d. The equipment does not work well, or you cannot get it to work according to the user's manual.
 - e. The equipment has been dropped or damaged.
 - f. The equipment has obvious signs of breakage.
16. The sound pressure level at the operator's position, according to IEC 704-1:1982, is no more than 70dB(A).

17. Keep this User's Manual for later reference.
18. DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20° C (-4° F) OR ABOVE 60° C (140° F). THIS MAY DAMAGE THE EQUIPMENT.

Disposing of Your Old Product

Within the European Union



EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste.

This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your display products, please follow the guidance of your local authority, or ask the shop where you purchased the product, or if applicable, follow any agreements made between yourself. The mark on electrical and electronic products only applies to the current European Union Member States.

Outside the European Union

If you wish to dispose of used electrical and electronic products outside the European Union, please contact your local authority so as to comply with the correct disposal method.

Chapter 1

Introduction

Getting Started

Congratulations on your purchase of this Tablet PC. The Tablet PC is a fully functional Tablet PC with built-in LAN, and wireless connectivity. Therefore its' capable to organize and access important business and personal information with excellent efficiency. In addition, you will be able to send and receive e-mail and access the Internet at anytime and anywhere.

This Manual contains the information you need to set up and use your Tablet PC. It describes all the features of the Tablet PC in a manner of 'easy-to-read thorough'.

Inventory

This Tablet PC is designed for years of productive and pleasurable computing. Use this section to keep details of your purchase. This information will be required should you need to make repairs to your Tablet PC during the warranty period. Update this section when you add new options.

DATE OF PURCHASE: _____

PLACE OF PURCHASE: _____

DEALER'S NAME: _____

DEALER'S ADDRESS: _____

TELEPHONE: _____

E-MAIL ADDRESS/WWW: _____

CONTACT PERSON: _____

MODEL NUMBER: _____

SERIAL NUMBER: _____

Safety and Maintenance

You can use your Tablet PC under a wide range of environmental conditions. However, to ensure long use and continued high performance, consider the following factors when setting up your Tablet PC:

- Follow all warnings and instructions noted in this documentation and in the Windows Help program.
- The first time you use your Tablet PC, we recommend that you carefully read the Making Connections section of this manual and initialize the battery to ensure optimum battery performance.
- **Unplug** the Tablet PC from **the power outlet** before cleaning. Use a damp cloth for cleaning. Do not use aerosols, solvents, or strong detergents.
- Slots and openings in the system cabinet are for ventilation purposes. Do not block or cover these openings or the system could overheat. Do not use or store the Tablet PC near a source of heat or dust.
- **On the base or rear panel of this Tablet PC, there is a label with information on the power requirements of this system.** These requirements must be followed. If you are unsure of your local power supply, consult your dealer or local Power Company.
- Do not step on or place anything on the power cord.
- If you use the Tablet PC with an extension cord, ensure that the total ampere ratings of all the devices sharing the extension do not exceed the rating of the extension cord or the rating of the wall outlet.
- Never push foreign objects into the Tablet PC through any of the slots or openings. Dangerous voltages are present, which could cause electric shock or fire, or damage sensitive components.

Check Lists

After opening the package, carefully inspect the contents. If any of the items is missing or appear damaged, contact your dealer. The shipping carton should contain the following:

- SR820 x 1
- Accessory BOX x 1, included:
 - a. Battery x 1
 - b. Adapter x 1
 - c. Stylus Pen x 1
 - d. Service DVD x 1
 - e. Hand Strap x 1
 - f. Screws x 2 (**For hand strap use only**)
 - g. Power Cord x 1
 - h. Screen Protection Film x 1



Caution: When purchasing any accessories, purchase only those accessories that are approved for use with your Tablet PC. Your system vendor can obtain these approved accessories. If you use items that are not approved for use with this Tablet PC, you may cause your Tablet PC to malfunction, or to emit or receive electro-magnetic radiation in excess of local regulations. For non-proprietary accessories such as Tablet PC cards or printers, ensure that the accessory functions properly in your Tablet PC before making the purchase. Your system vendor may be able to recommend reliable brands and models.

Features

Software Support

Windows® XP Embedded Tablet Edition

- Microsoft® Internet Explorer
- Microsoft® Outlook Express
- Microsoft® Windows Media Player

High Performance Processors

Intel® Atom Z530P 1.6GHz Processor, 512KB L2 Cache

Overview

SR820 is a versatile Tablet PC equipped with 8.9" TFT LCD, and adopts the latest Intel® ATOM Z530P industrial grade processor with Intel® US15WP SCH chipset. It also meets IP 54 environmental rating protection requirement, and is well protected by four rounded rubber bumpers.

Features of SR820 are in terms of the latest display LED backlight technology with the touch screen/sunlight readable extraordinary functions, 1GB up to 2GB DDR II SDRAM, compact 1.8" 60GB HDD, and fully connection of I/O ports such as 2M pixel integrated camera and Barcode Scanner. For communication, it includes highly integrated module 10/100/1000 Ethernet, 802.11 b/g/n WLAN, Bluetooth 2.1 +EDR. The Rugged Tablet PC SR820, providing powerful functionality and instant response, is easy to handheld and satisfies all users' demand.

With above strengths and features, SR820 is applicable for various applications, including hospitality, transportation, measuring, field service, logistics and Telecommunication, etc.

GPS Function (Optional)

You can purchase our GPS module to set your GPS function up. You can also purchase third-party GPS navigation program to arrange in a group to use. Please connect our sales for this optional function.

Barcode Scanner (Optional)

Your Tablet PC can also install 1D barcode scanner for your own application, please connect our sales for this optional function.

Where to Look for Information

About Your Tablet PC

This User's Manual describes the key elements of your Tablet PC. New users can find a simple step-by-step orientation in the Quick Start section of this chapter.

About Windows

Help and Support are available at the Windows XP Tablet Edition Start menu, offers extensive Windows assistance. **Welcome Center** offers an online orientation for new Windows users. Find it in:

Start/Welcome Center

Quick Start

Install and change battery at your Tablet PC



-
1. Remove the screws on the battery cover at bottom side of your Tablet PC and open the battery cover.
 2. Remove the water-proof rubber on top of battery pack.
 3. Insert the battery pack into the Tablet PC and check the connector location is correct

4. Put the water-proof rubber back to the cannellure after Insert the battery pack.

Attention: Please check the fool-proof check point like picture.

5. Put the battery cover back and lock the screws to the battery cover.

Turn on the Tablet PC for the first time



1. Connect the AC adapter to SR820
2. Connect the AC adapter power cord to the AC adapter.
3. Connect the AC adapter power cord to an AC outlet.
4. Press the power button to turn on the power.



Note: The battery is not fully charged. Allow your battery to fully charge before using it (i.e., before disconnecting AC power). Calibrating the battery before use is also highly recommended. Refer to Chapter of *Power Management*, for further information.

Load Windows (Bundle OS model only)



The following section is for installing the Windows operating system only. If you are installing a different operating system, please check with your vendor for installation details.

After the Start Wizard updates your system settings, the Welcome to Windows screen will appear. You may disable this feature by clearing the check box labeled show this screen each time Windows starts.

Some software comes preloaded with Windows. New users can familiarize themselves with this software by selecting Programs from the start menu, then clicking on programs to run them.

Adjust the Volume

You can adjust the volume with Hot keys on front panel:



-  : volume up
-  : volume down

Alternatively, you can adjust the volume with the Windows volume control applet located on the taskbar.



Adjusting the Brightness

Use the Hot keys on front panel to adjust the LCD panel brightness:

-  : increases the brightness
-  : decreases the brightness

Turn off Your Tablet PC

Turning off the Tablet PC properly is important to maintaining your Tablet PC.



1. Click the Windows start button.
2. Choose 'Turn off' to turn-off the Tablet PC.



Warning: Shutting off the Tablet PC improperly may result in data loss.

Chapter 2

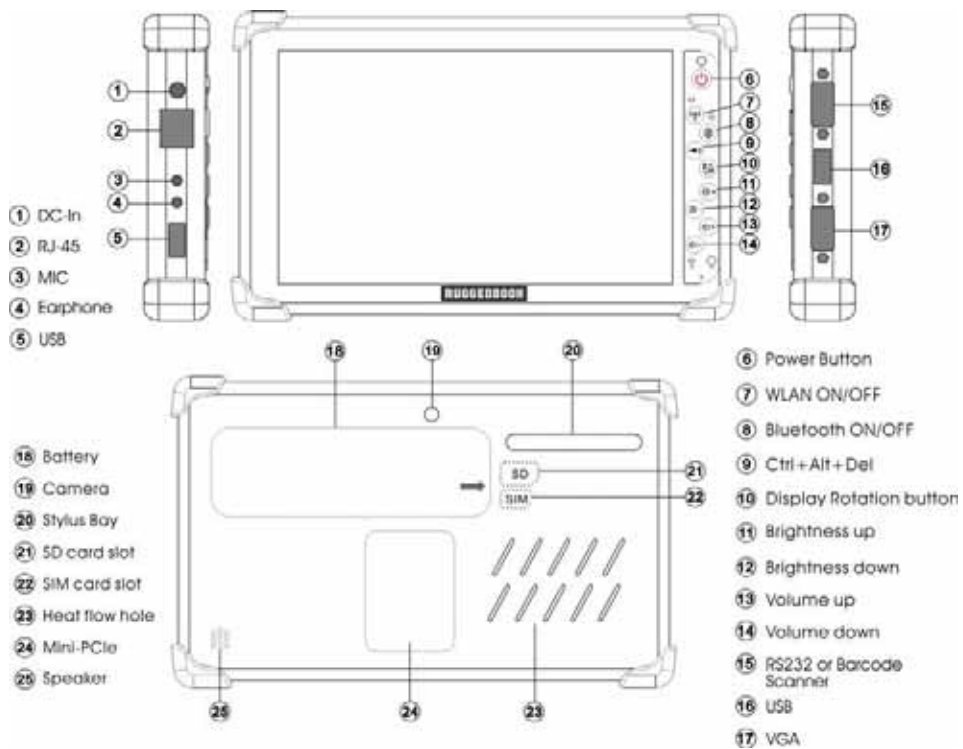
Getting Started

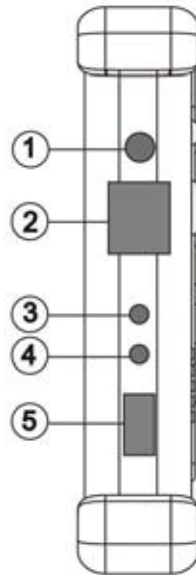
Hardware and Software

This chapter introduces the different components and controls of your Tablet PC, including the hardware components, the software, and the audio and video systems.

Getting Started

Before you begin using your Tablet PC, read this chapter to familiarize yourself with the main components installed in the system.





1. DC Power Jack

Connect the Adapter connector to DC Power Jack.

2. RJ-45 LAN port

With the built-in Ethernet LAN combo, you can make LAN connections without installing PC cards. Connection speed is 10/100/1000 Mbps. When using the LAN function, wrap your LAN cable around the EMI ferrite suppression box to inhibit electromagnetic interference.

3. Microphone Jack

There can connect your own microphone to record your voice or using an IM program which support voice transfer.

4. Earphone Jack

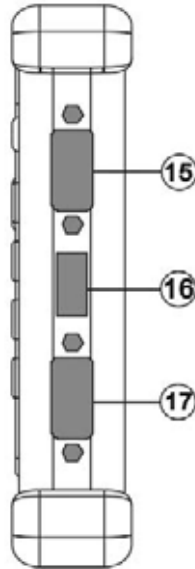
There can connect your high-quality earphone to this earphone jack.

5. USB port

The Universal Serial Bus (USB) is the latest standard for attaching monitors, input devices, scanners, and other devices to a PC. USB devices can be chained together on a single cable.



※ Please see the Hotkey Table section at Page 20



15. RS232 Port

The RS232 port can transmit data using the DB9 cable, and send and receive faxes at 14.4 Kbps. In some countries, local regulations may not permit the use of the fax/modem designed for this system.

15. Barcode Scanner (Optional)

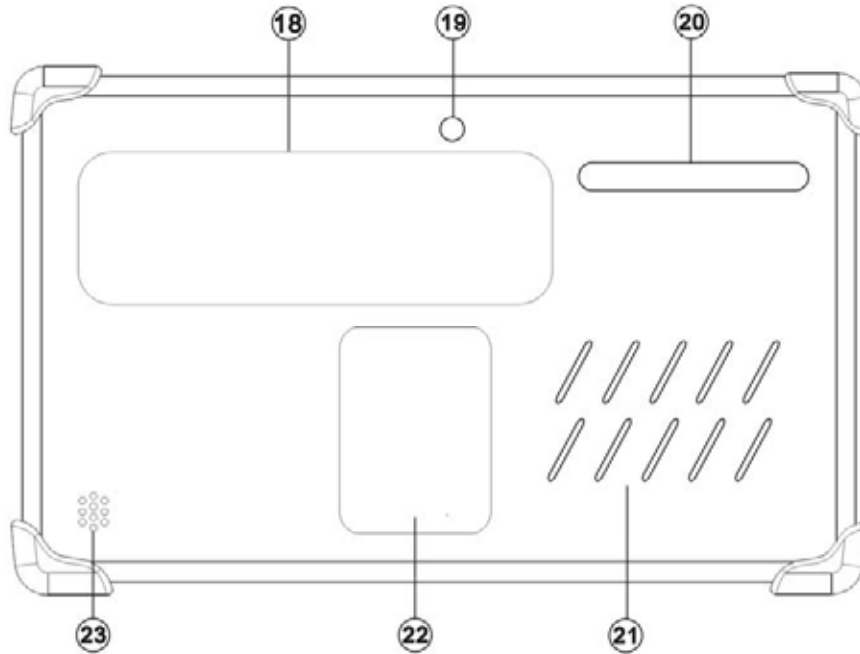
There is a Barcode Scanner function for your second choice, the detail information please see Chapter 5

16. USB port

Please see Item #5

17. VGA Port

VGA output can connect to another monitor, display, or projector...etc. that the device supports the DB9 VGA output connector.



18. Battery Bay

Install Battery into the Battery Bay

19. Camera

Please see the camera item at Chapter 5 page 49

20. Stylus Bay

Put your stylus at Stylus Bay.

21. Heat Flow Hole

There has a heat sink inside

22. Mini-PCIe Slot






You can install a Mini-PCIe device on this slot.

23. Speaker Hole

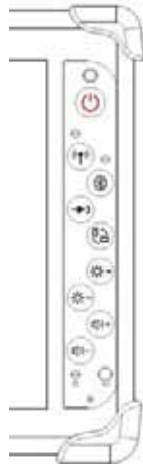
There has a speaker inside.

LED Status Indicators










The LED Status Indicators show which power source the system is using. They also show battery status and low battery power alerts.

Icon	Light	Description
	Blue	Power on
	Orange blinking	System save to RAM
	Orange	Battery is charging
	Off	Battery is discharged
	Red blinking	Low battery capacity
	Green blinking	HDD in access
	Off	HDD in idle
	Green	WLAN enabled
	Green	Bluetooth enabled

Hot Keys



The hot keys are unique features of your Tablet PC. The function as follows:

Hot key	Function
	Power ON/OFF switch
	Implement Secure Attention Sequence(SAS), same as Ctrl+ Alt+Del
	Rotate the working screen
	Volume up
	Volume down
	Switch Wireless LAN ON/OFF
	Switch Bluetooth ON/OFF
	Brightness up
	Brightness down

Stylus



You can use the stylus to replace a mouse when using SR820. Store the stylus in the stylus bay when it not in use.

Storage

a. Solid State Disk(SSD)

The SSD disk provides high performances even after violent shake, high temperatures. Windows and most programs are stored here. It may be your other choice

b. Hard Disk Drive(HDD)

The hard disk provides 1.8" ultra slim storage and fast access. Windows and most programs are stored here.

The SD Card Slot

Your Tablet PC includes card slot which supports SD Card. Before you find out the SD card slot, you need remove battery pack first. Then you will see the SD card slot like below picture:



Note: Please read the instructions included with individual PC cards. Some cards may be inserted with power on, while others require that the Tablet PC be turned off

SIM Card Slot

Before you insert your SIM card into the SIM card slot, please remove battery pack first. Then you will find out the SIM card slot like below picture:



Chapter 3

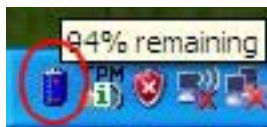
Power Management

Power management

With Windows XP Tablet Edition™, power consumption may be reduced through 'Power plans'. This tool controls the interaction between hardware and system settings that manage how the computer uses energy, therefore the battery life and system performance can be balanced as well as enhanced.

Checking the Battery Level

You can check the remaining battery power in the Windows® battery status indicator located at the lower right-hand corner of the task tray. The Battery Status icon only appears in the task tray while the unit is running on the battery power but not while the unit is running off an external power source through the AC adaptor.



Battery Power Indicator

Monitoring battery power

The battery status indicator allows you to monitor how much power the battery has left.

1. Left-click on the battery status indicator.
2. Moving the cursor to select a preferable power plan to enhance your energy performance.



Adjust the power plan

As shown, power plan has been specified as Balanced, Power saver and High performance, each has parameters those may be customized to fit individual circumstances as requirements of users.



1. Click the Start button>Control Panel>Power Option>Edit Plan Settings.
(System route may differ from your machine)
2. Adjusted the parameters to meet your requirement.
3. Press the 'Save changes' button to execute the adjustment.

Sleep power state

Sleep is a new power state in Windows XP Tablet Edition. This mode allows the computer to retain its workload in a minimum usage of energy as standby. While when user returns, the work can be easily resumed no matter where it stopped.

Advantages of sleep state:

- All the works, with information of programs those are currently in use will automatically be saved to the hard-disk.
- When using a mobile PC, Windows XP Tablet Edition restores the previous work within seconds, it won't be necessary to restart or re-open the files.
- While sleeping, only approx. one-tenth the energy will be used comparing when running at full power, and a mobile PC typically uses one to two percent of battery power per hour.

To save the energy further, Windows XP Tablet Edition automatically turns off the computer after a period of time based on the Sleep and Hibernation settings of the power plan the user is using.

Battery Charging

When you use the AC adapter to connect your Tablet PC to a power outlet, the internal battery will automatically begin to recharge. While the battery is charging, the Battery Charge icon on the Indicator panel will be active. When the battery is fully charged, the Battery Charge icon will turn off.

If your Tablet PC is turned off, a fully discharged battery will take about 2.5 hours recharge to 80%. If your Tablet PC is turned on and is not in suspend mode, it will take about 6 hours to recharge the battery. Refer to the following table:

Note: A fully charged Li-Ion battery can run the Tablet PC for approximately 6.0 hours.

When to Replace the Battery

Over time, the battery's capacity gradually decreases. We recommend to replace your battery when you notice that it begins to store significantly less charge.

Changing the Battery

Change the main battery pack as follows:

1. Unlock the screws on battery cover and remove the battery cover, and remove the water-proof rubber under battery pack.
2. Slide battery latch to lift the cover, then insert battery into the compartment as illustrated. When the battery has been fully sealed, put the water proof rubber and battery cover back and lock screws again.
3. Please mind the fool-proof check points at the water proof rubber.



Thermal Considerations

The Tablet PC processor has been specially designed to consume little power and generates less heat. However, working in a hot environment, or working for long periods may raise the temperature. If the temperature continues to rise, processor activity will be reduced. You may notice a slight loss of performance when it happens.

Chapter 4

System Software

System Software

Software List

Operating System

Your hard drive already contains all the software that you need to operate the Tablet PC.

Drivers

These utility programs and drivers contain the PC Card drive, the sound system, and the graphics sub-system.

System Recovery

Before you start

If you reinstall your operating system, **all of the data originally on the hard disk will be overwritten**. Before reinstalling the operating system, carefully backup any important data.

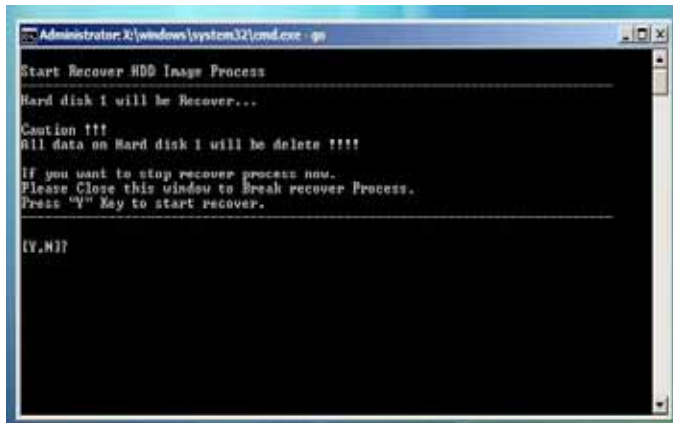


Caution: When you re-install operating system by Recovery HDI for Windows, we **STRONGLY** recommend connecting the AC adapter (do NOT use battery alone) to avoid warning message.

1. Connect an external USB CD/DVD-ROM to SR820 machine.
2. Put the service DVD into the DVD-RW and turn-off system.
3. Press power button to turn on the system, then press “Del” key to enter BIOS setup menu.
4. Move to Advanced BIOS Features setup menu and set DVD ROM to priority 1st, HDD to priority 2nd, then put recovery DVD into DVD-ROM .Save and exit BIOS setup menu to reboot system.

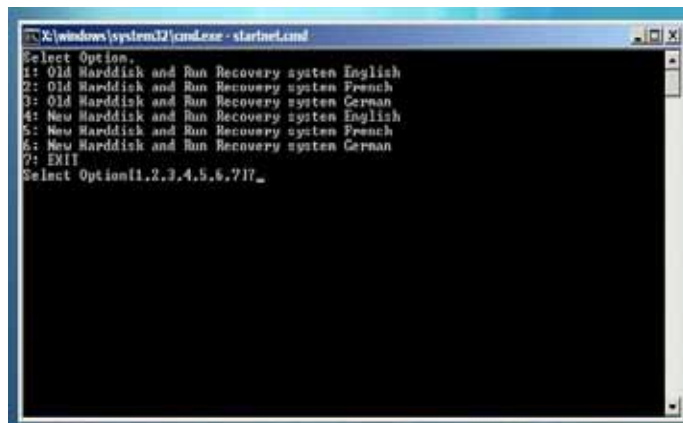


5. When system reboot via DVD-ROM and see the message like below picture, you can:
 - a. If you want to execute recovery OS, please type “Y” and press “enter” key, but data on the current partition will be deleted.
 - b. If you do not want to recover your OS, please take off the service DVD first, and then type “N” and press “Enter” key to reboot system. The system will be rebooting.



6. Continue recovery step, can see message like below:

If your system language is English / French / German, please following the below picture to go on this step:

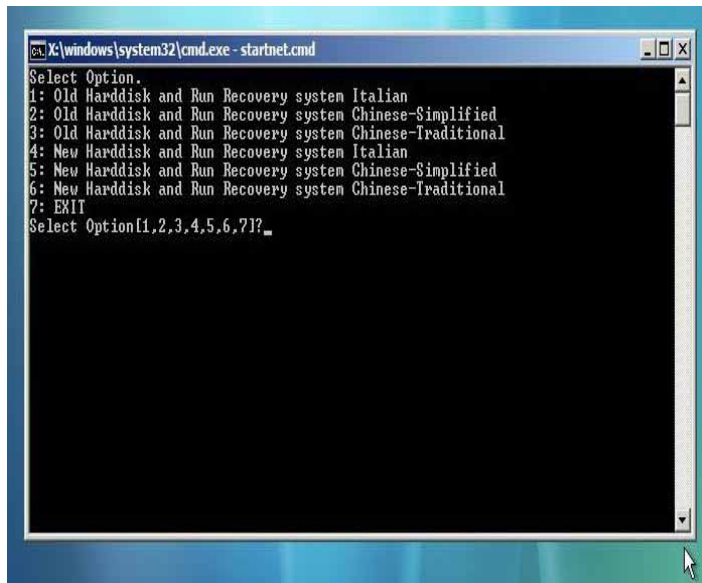


Option 1(or 2, 3): Recovery system via the original partition

Option 4(or 5, 6): Recovery system with re-partition the current hard disk

Option 7: Quit the recovery asking

If your system language is Italian / Chinese-Simplified / Chinese-Traditional, please follow below picture to go on this step:



- If you choose "1(or 2, 3)" to run recovery system, please wait for program running. After seeing below message "**Press any key to reboot system**", you can remove service DVD from DVD-RW and press any key to reboot system

```

Administrator: K:\windows\system32\cmd.exe - gs
Select Option.
1: Old Harddisk and Run Recovery system English
2: Old Harddisk and Run Recovery system French
3: Old Harddisk and Run Recovery system German
4: New Harddisk and Run Recovery system English
5: New Harddisk and Run Recovery system French
6: New Harddisk and Run Recovery system German
7: EXIT
Select Option(1,2,3,4,5,6,7)?1

Microsoft DiskPart version 6.8.6008
Copyright (C) 1999-2007 Microsoft Corporation.
On computer: MINIMIPC

Disk 0 is now the selected disk.
Partition 1 is now the selected partition.

100 percent completed
DiskPart successfully formatted the volume.
DiskPart marked the current partition as active.

Volume ### Ltr Label Fs Type Size Status Info
-----
Volume 0 E TEST_DVD_3L CDPS CD-ROM 3418 MB Healthy
Volume 1 C NTFS Partition 20 GB Healthy
Volume 2 D NTFS Partition 10 GB Healthy

Leaving DiskPart...
Target volumes will be updated with MBR compatible bootcode.
C: (\?\Volume{B4f11a88-f965-11de-8483-ef0f5a6579da})
Successfully updated NTFS filesystem bootcode.
Bootcode was successfully updated on all targeted volumes.
ImageX Tool for Windows
Copyright (C) Microsoft Corp. 1981-2005. All rights reserved.

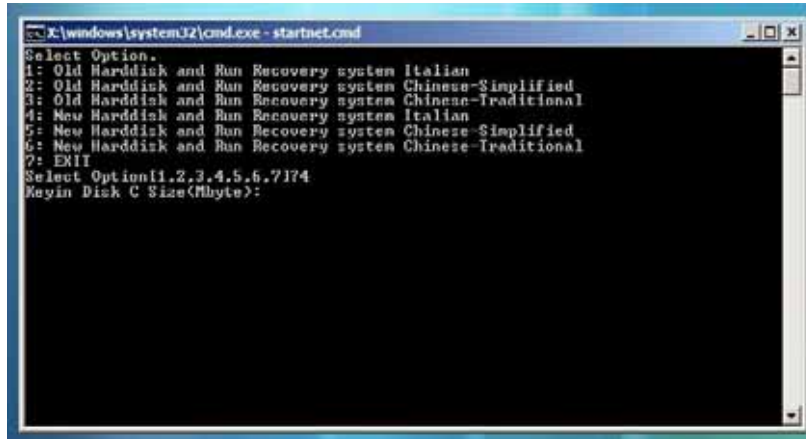
Progress: 18%, 1:53 mins remaining
    
```

- If you choose "4(or 5, 6)" to run recovery system, your system will be re-partition first then start

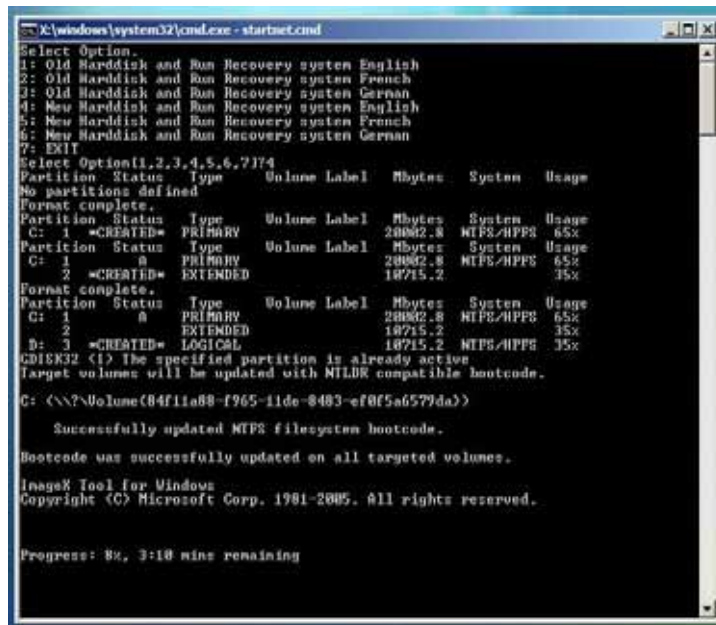
```

K:\windows\system32\cmd.exe - startnet.cmd
Select Option.
1: Old Harddisk and Run Recovery system English
2: Old Harddisk and Run Recovery system French
3: Old Harddisk and Run Recovery system German
4: New Harddisk and Run Recovery system English
5: New Harddisk and Run Recovery system French
6: New Harddisk and Run Recovery system German
7: EXIT
Select Option(1,2,3,4,5,6,7)?4
Keyin Disk C Size(Mbytes):_
    
```

If your system language is Italian / Chinese-Simplified / Chinese-Traditional, please follow below picture to go on this step:



- When restore operation completed, the system will show below picture. After seeing below message “**Press any key to reboot system**”, you can remove the service DVD from DVD-ROM and press any key to reboot system.



Chapter 5
Utilities and
Communication
Devices

Utilities

Utility List

Your hard drive already contains all the third-party communication devices' utility you can use on the Tablet PC.

- **Bluetooth**
- **WLAN**
- **GPS**
- **Barcode Scanner**
- **Camera**



Caution: All of the utilities on SR820 Tablet PC have authorization to use, but only for your test, SAMWELL will not preside over any other third-party programs or software.

Bluetooth

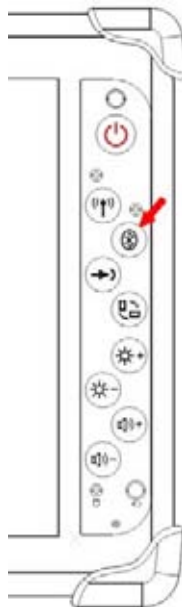
Your SR820 Tablet PC is equipped with a Bluetooth device. By using the Bluetooth function you can eliminate the need for cables to connect with other Bluetooth device.

Features

- Fully qualified Bluetooth v2.1 system
- Enhanced Data Rate(EDR) compliant for both 2Mbps and 3Mbps supported
- Fully speed operation with Piconet and Scatternet support
- Implement 802.11 coexistence solution by AFH(Adjacent Frequency Hopping), WCS(Wireless Coexistence System), and Bluetooth Priority

Bluetooth Switch Button

There is a Bluetooth switch button on the front panel of Tablet PC. You can press Bluetooth switch button to toggle the Bluetooth On/Off. You can also see the hotkey table at Chapter 2.



Using Bluetooth

After you turn on the Bluetooth function via press the Bluetooth button on front panel:

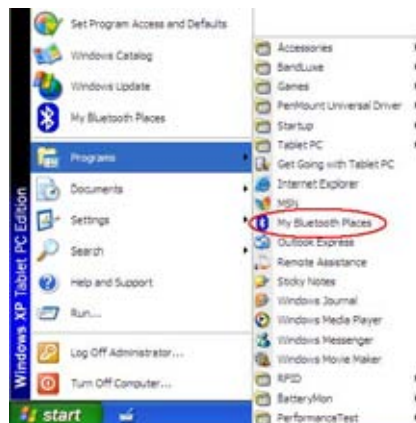
1. From Desktop: By double click “My Bluetooth Places” icon on the desktop.



2. From Taskbar: By double click “My Bluetooth Places” icon on the taskbar.



3. From Start Menu: By click “My Bluetooth Places” icon on “Start\Programs\My Bluetooth Places”.



Functions

1. Add a Bluetooth Device
2. View My Bluetooth services
3. View devices in range
4. View or modify configuration

WLAN

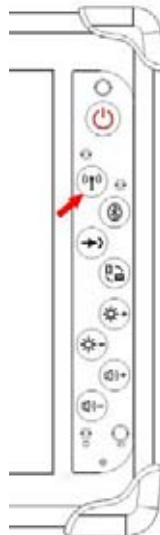
SR820 Tablet PC is equipped with a WLAN module. By using the WLAN function you can eliminate the need for cables to connect to the network.

Features

- Compliant with the IEEE 802.11n standard and compatible with the IEEE 802.11b/g standard
- High speed wireless connection up to 300 Mbps data rate and long distance of connection range
- 2 antennas to support 1(Transmit) x2(Receive) MIMO technology
- Low power consumption and high performance
- Enhanced wireless security

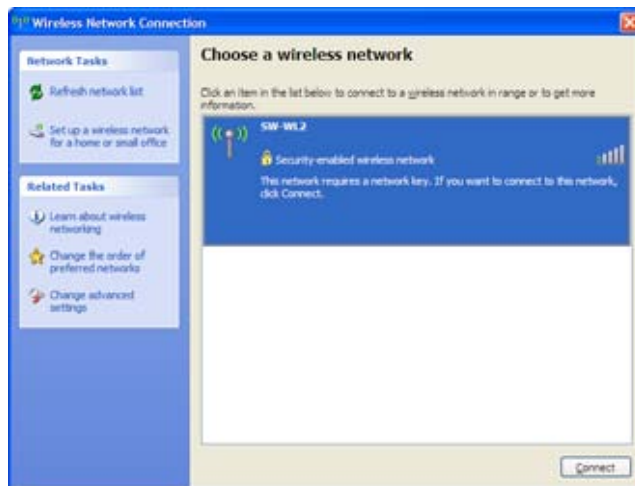
WLAN Switch Button

There is a WLAN switch button on the front panel of Tablet PC. You can press WLAN Switch Button to toggle the WLAN On/Off. You can also see the Hotkey Table at Page 20.



WLAN Utility

Microsoft provides a utility “Wireless Network Connection” that you can search for the available wireless networks and set up wireless network configuration.



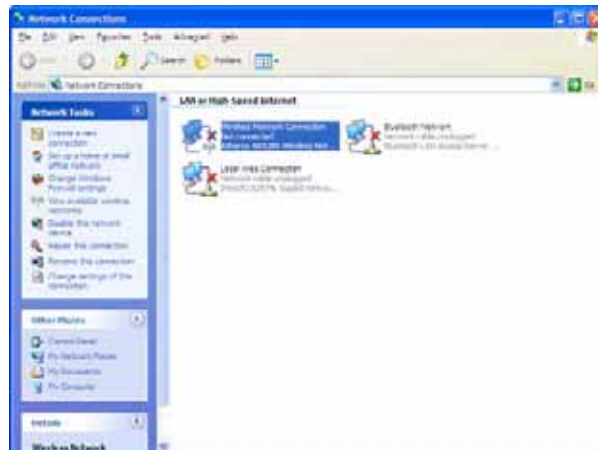
Using WLAN

After turn on the WLAN function via Hotkey on the front panel:

1. From Taskbar: By double click “Wireless Network Connection” icon on the taskbar.



2. From Start Menu: By double click “Wireless Network Connection” icon on “Start\ Settings\ Network Connections\ Wireless Network Connection”.



Functions

1. Search for the available wireless networks
2. Connect with a wireless network
3. Set up a wireless network for a home or small office
4. Change the order of preferred networks
5. Change advanced settings

GPS

SR820 Tablet PC is equipped with a GPS module. You can install GPS navigation software to start navigating.

Features

- 50-channel u-blox 5 engine with over 1 million effective correlators
- <1 second Time To First Fix for Hot and Aided Starts
- -160dBm SuperSense® acquisition and tracking sensitivity
- Accelerated startup at weak signals for modules with KickStart feature
- Supports AssistNow Online and AssistNow Offline A-GPS services; OMA SUPL compliant
- High immunity to jamming
- 4 Hz position update rate
- High sensitivity ultra low power consumption cost efficient
- Supports external active antenna when it gets connected
- Allows weak signal tracking and positioning in severe environments such as urban canyons and under deep foliage

Utility

We don't provide any GPS navigation software and utility with SR820. You can purchase your own GPS navigation program by yourself. SAMWELL will help you to setup your own GPS program. Below graphics are program sample, you also can purchase navigation program not at our list:

1. TomTom

- Web site :<http://www.tomtom.com/>



2. Destinator

- Web site :<http://www.intrinsyc.com/>



Barcode Scanner

SR820 Tablet PC is equipped with a barcode scanner module.

Features

- Large working range
- Small and light scan engine
- 100 scans per second
- Scanning speed delivers aggressive performance and accurate capture of all bar codes — even damaged and poor-quality.
- Low power consumption
- Bright scan line and "Aim" mode
- Programmable scan angle: Provides flexibility to cost-effectively customize products for specific applications.
- RoHS-compliant
- Die-cast zinc chassis and single-board construction: Has a shock rating of 2,000G for outstanding durability.
- Liquid Polymer scan element: Eliminates friction and wear for superior reliability.
- Flash-upgradeable: Easy to upgrade software.
- Support 1D Barcode.

Support Barcode

The Tablet PC supports the following barcodes:

- UPC-A (Enable)
- UPC-E (Enable)
- UPC-E1 (Disable)
- EAN-8 (Enable)
- EAN-13 (Enable)

- Bookland EAN (Disable)
- Code 128 (Enable)
- Code 39 (Enable)
- Code 93 (Disable)
- Code 11 (Disable)
- Interleaved 2 of 5 (Enable)
- Discrete 2 of 5 (Disable)
- Chinese 2 of 5 (Disable)
- Codebar (Disable)
- MSI (Disable)
- RSS (Disable)

Utility

You can use “Scan Engine Demo” to scan barcode.

Using barcode scanner

1. Executes “ScanEngineDemo.exe” on Windows XP Embedded desktop.
2. Go to “Start\ Programs\ Symbol Technologies\ SSI Demo Application\ VB Demo” on Windows XP Embedded desktop.

How to Use

1. Executes “ScanEngineDemo.exe”.
2. Click “Connect” button.
3. Click “Pull Trigger” button. Then you can start scanning barcode.

Camera Module

Your SR820 Tablet PC is equipped with a camera module. You can use utility what bundled with Windows XP Embedded to take picture and review. Beside you can use the camera module as a web camera so you can use instance message software to talk and watch whom you are connecting to.

Utility

Microsoft provides a utility “Scanner and Camera Wizard” that you can take and select pictures to copy. You can find out this item and fix the setting via Control Panel from Windows XP Embedded desktop start menu.

Using camera module

1. Open Explorer, and then go to “My Documents\ My Pictures” like below graphic.



2. Click "Get pictures from camera or scanner". Then you can see below message



3. Click "Next" button. Then you can enter "Scanner and Camera Wizard".

**Appendix
Statements**

Statements

Federal Communication Commission Interference 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Declaration of Conformity

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.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Federal Communication Commission (FCC) Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.