

SmartTablet

(SMT-8010, 8011)



Quick Reference Guide

SAMMI Information Systems Co., Ltd.

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Introduction

This quick reference guide allows you to use all the advanced features of SmartTablet effectively. Please go through it once before using SmartTablet PC.

Quick reference guide is designed specially for end users. It is not necessary for the user to have technical skills to understand the quick reference guide. Each topic in Quick reference guide is kept short to cover all the topics.

For more detailed description, screen shots and technical details please refer Operation guide for SmartTablet PC.

Chapter 1 Get to know more about SmartTablet

1.1 Make sure you have everything

- ✓ SmartTablet Web Pad
- ✓ Stylus Pen
- ✓ AC/DC Adaptor/Battery Charger
- ✓ Lithium-Ion Rechargeable Battery Pack
- ✓ Power cord
- ✓ Quick Reference guide
- ✓ Hand strap

Optional accessories

- ✓ Docking station (Vehicle, desktop)
- ✓ Carrying case
- ✓ Cigar Jack adapter
- ✓ DC/DC power supply
- ✓ 3 pack external battery charger
- ✓ External LAN cable
- ✓ Mini VGA cable
- ✓ Shoulder strap

1.2 Appearance

Front side



Rear side

Stylus Pen (Pointing device)

HDD Cover

Port Cover

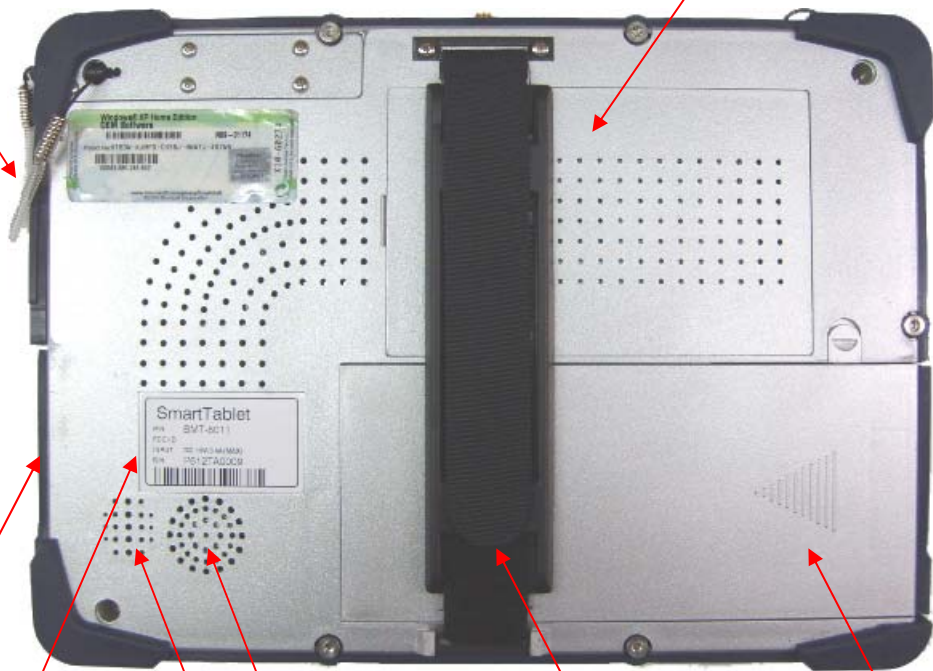
Product Label

Speaker outlet

Fan

Hand Strap

Battery

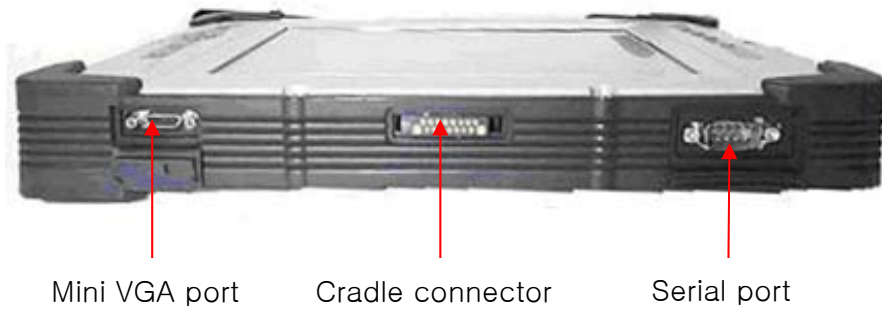


Top side

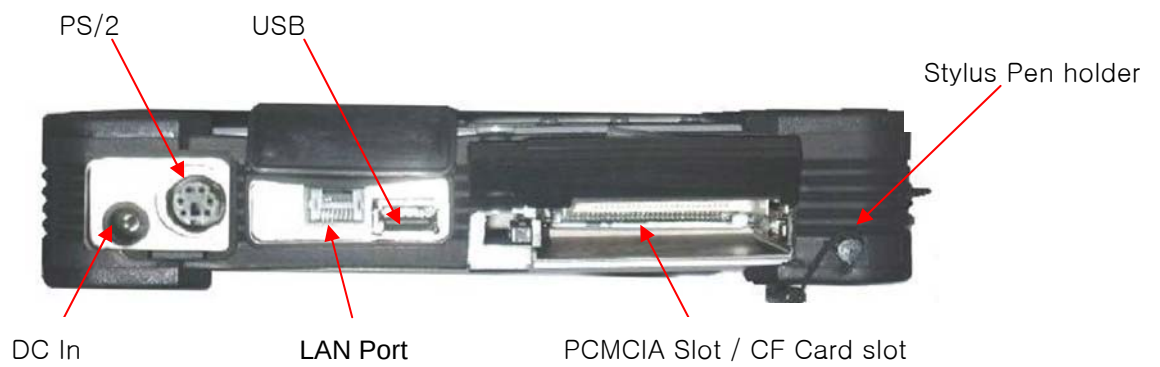
USB



Bottom side



Right Side



Left Side



Chapter 2 Hot keys

2.1 Front panel with keys



2.2 Front panel keys and their usage

Key Name	Key Location	Key Functions
ALT	Top Left side	Functions same as "Alt" key on keyboard in windows mode
Arrow keys (4 no) < >	Left side	Functions same as "up/down/right/left" cursor keys on keyboard in windows mode
Ctrl	Left side	Functions same as "Ctrl" key on keyboard in windows mode
Rotate	Left side	Rotates the screen display by 90,180,270 degrees
Power key 	Top Right side	- Turns SmartTablet On/Off - Activates and deactivates hibernation (To be used when SmartTablet is already on by holding down the key)

GPS /F2/ On-screen Keyboard key	Right side	• Functions same as “F2” key for CMOS setup before windows starts • To show the Soft Keyboard (on screen keyboard) once It is set for it under windows
ESC key	Right side	• Functions same as “ESC” key on keyboard in windows mode
TAB Key	Right side	• Functions same as “TAB” key on keyboard in windows mode
Enter key ↵	Right side	• Functions same as “Enter” key on keyboard in windows mode

2.3 System Status LEDS

Following chart shows the color of LED's in different states

POWER	BAT	AC	LED
Power OFF	On Charging	AC IN	Blinking Red
Power OFF	Full Charging	AC IN	Blinking Yellow (Orange)
Power OFF	Full Charging	AC w/o	Off
Power ON	On Charging	AC IN	Red
Power ON	Full Charging	AC IN	Yellow (Orange)
Power ON	Full Charging	AC w/o	Green
Power ON	Require Charging	AC w/o	Red

- MIC slot -- It's the opening of inbuilt microphone

2.4 Combined keys functions

Few keys in combination with Alt and Ctrl keys can be used for changing different setting, which are explained in the following table

Key 1	Key 2	Function
ALT	Right Arrow	Speaker volume up
ALT	Left Arrow	Speaker volume down
ALT	Up Arrow	Brightens up LCD panel
ALT	Down Arrow	Brightens down LCD panel
ALT	Esc	Activate new Window conversion
ALT	TAB	Activates windows conversation
Ctrl	Esc	Window Start Key
Ctrl	Tab	Touch calibration
Ctrl + ALT	GPS /F2/ On-screen	Windows Task Manager

Chapter 3 Power settings and connections

3.1 Getting Started

There are three ways in which SmartTablet PC can be used or mounted

1. Desktop docking station
2. Vehicle docking station
3. Without any docking station

Desktop docking station

Mounting SmartTablet on desktop docking station follow the steps given below.

- Mount SmartTablet Web Pad on mounting unit so that the bottom notch fits in the Pin holder of the mounting unit so as it will look like in the figure below.
- As per the requirement, connect Power cord to the DC port at the back of the docking station.
- Instead of AC/DC adapter SmartTablet can operate on batteries, so please check if the battery is connected at the rear side of the SmartTablet.
- Switch on the power button.
- Connect PS/2 keyboard as well as USB mouse if required.

Docking Station (Desktop)

In order to use SmartTablet in-house following mounting station is available



Vehicle docking station

Mounting SmartTablet on vehicle follow the steps given below.

- Mount SmartTablet on mounting unit so that the bottom notch fits in the Pin holder of the mounting unit and press it against on the resting panel till you hear the locking sound.
- As per the requirement, connect Power cord to DC input jack
- Instead of AC/DC adapter SmartTablet can operate on batteries, so please check if the battery is connected at the rear side of the SmartTablet.
- Switch on the power button.
- Connect PS/2 keyboard as well as USB mouse if required.
- When you push down the top of locking mechanism, the other side of locking mechanism will lift up like seesaw and you can take off SmartTablet.

Docking Station (Vehicle)



Without any docking station

- In order to use it without any mounting connect power cord to Dc input of SmartTablet
- Switch on the power button.
- Connect PS/2 keyboard as well as USB mouse if required.

3.2 Power connections

SmartTablet can be used with both DC and AC power supplies

1. DC power

Portable DC Power

A separate Lithium-Ion rechargeable battery pack (3600mAH) is provided with the SmartTablet which can be attached at the rear side of the SmartTablet.

Note: Battery must be charged fully for 3 hours before first time usage.

Cigar Jack Adapter

It is specially designed for using SmartTablet in automobiles.

Input voltage is 12V (fixed) and Output voltage can be varied (15V, 16V, 18V, 19V, 20V, 21V), but for SmartTablet allowed voltage is 19V.

DC/DC Power supply

It is possible to change the input voltage as per the user requirement. The input voltage range is (18 ~ 54V variable). Output voltage is 19V fixed.

2. **For AC power** – Use AC/DC adapter/battery charger (100~240 AC input – 19V DC) for using SmartTablet on AC power. Use a power cord for the connection.

3.3 Power settings

3.3.1 Power on

Switch on the SmartTablet using Power key available on top left side of front panel

Power LED (Green) and Hard disk LED (Red) will start glowing

3.3.2 Power off

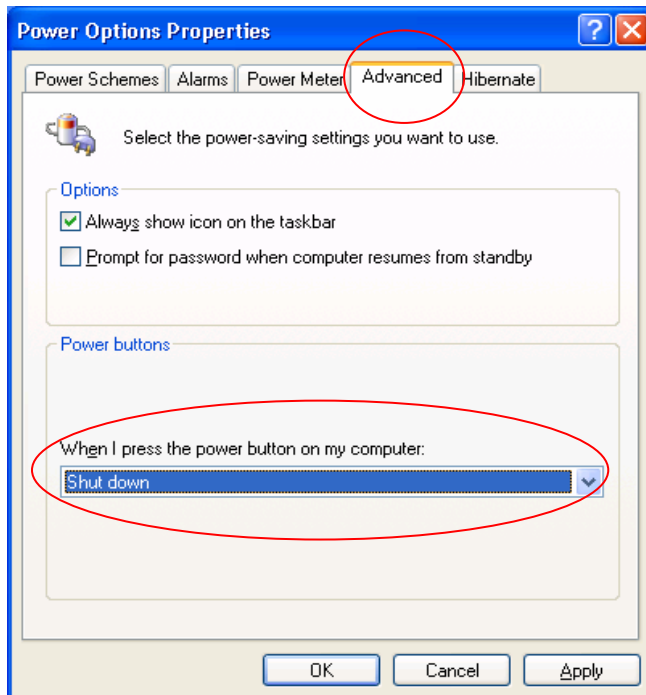
SmartTablet can be switched off in two ways

1. Shut down the system from Windows.
 - Select **Start** from Taskbar > Select **Shut Down** from Start menu.
 - Check Shut Down from **Shutdown** Windows menu > Select **OK**.
2. Changing the function of Power Key.
 - Select **Start** from Taskbar > Select **Settings** > Select **Control Panel**.
 - Select **Power Management** Icon from Control Panel.



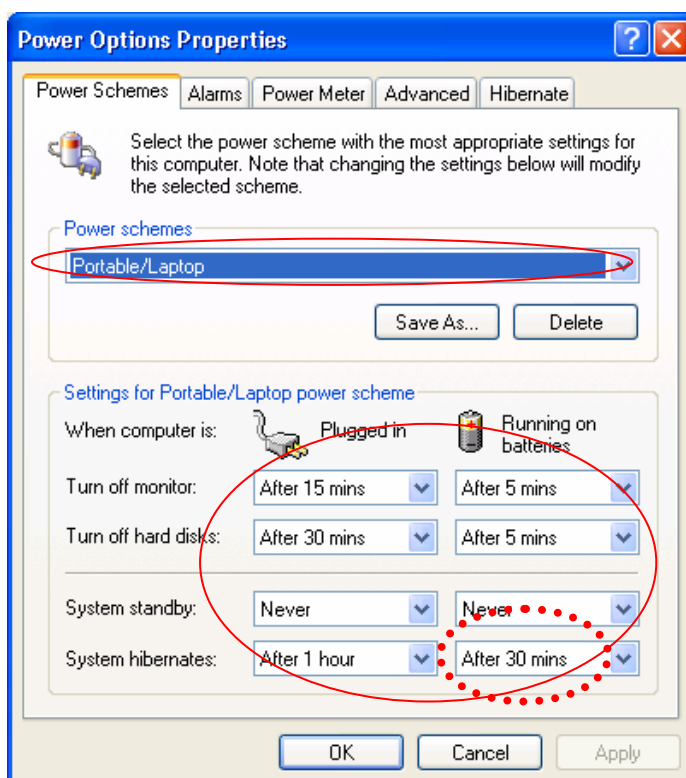
Power Options

- Select **advanced** tab > Reconfigure Power Buttons setting > Select **Apply**.



3.3.3 Automatic shutdown

In order to shutdown the system automatically after it is not used for particular duration of time please set it as follows. In the following example the system will hibernate automatically after 30 minutes while working on batteries and after 1 hour if working on AC voltage.



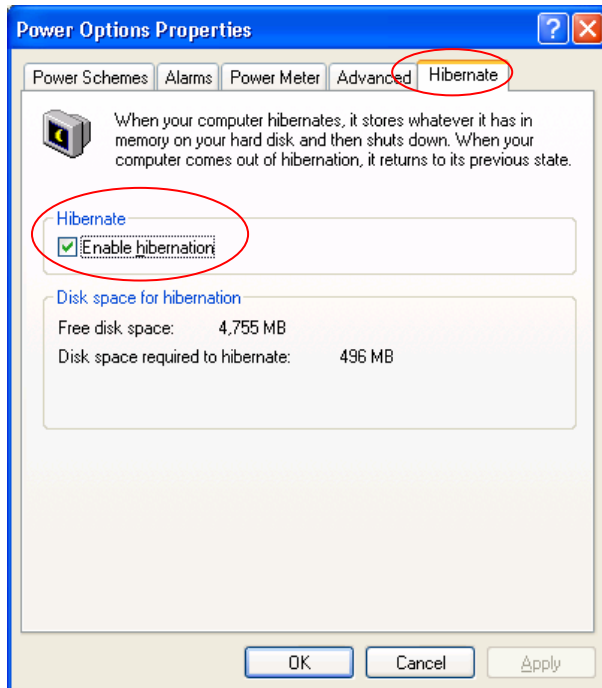
3.4 Hibernation

Hibernation is used to save data on memory to hard drive and turn off the PC.

Once computer comes out of hibernation, it goes back to its previous state.

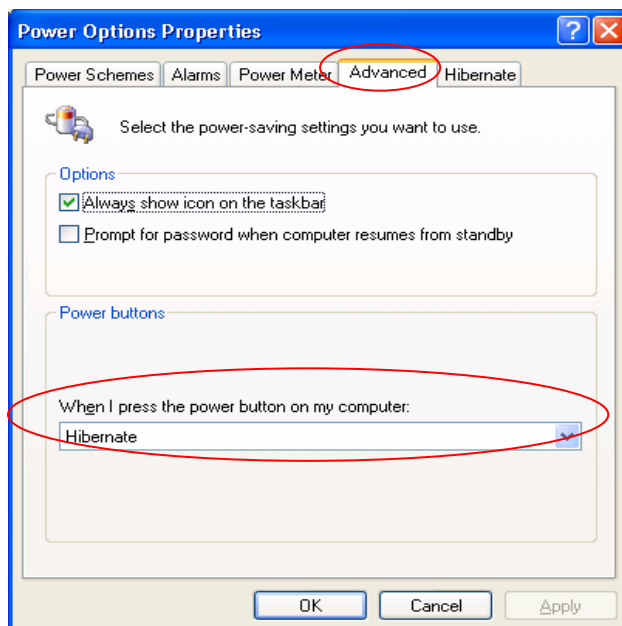
In order to enable hibernation

Start > settings > control Panel > power options properties



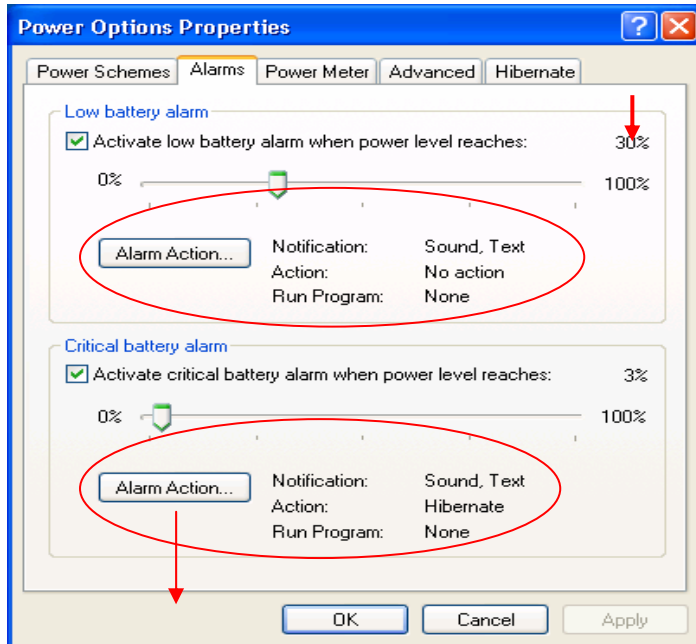
In order to set a key for hibernation

Start > settings > Control Panel > Power options properties > Advanced > set power key to Hibernate

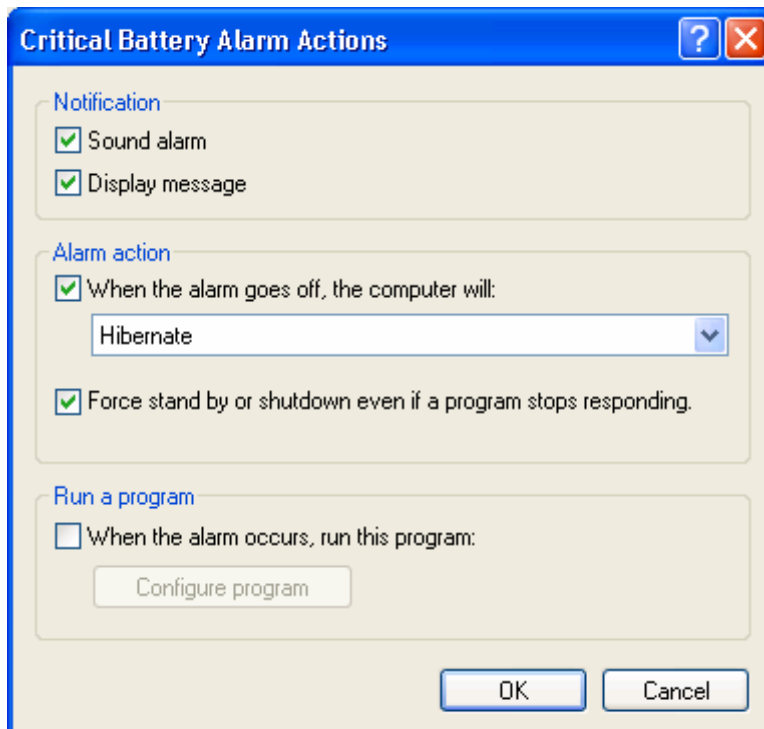


3.5 Battery low alarms

Here you can set the low battery and critical battery power levels.



Choose Alarm action following screen will be shown



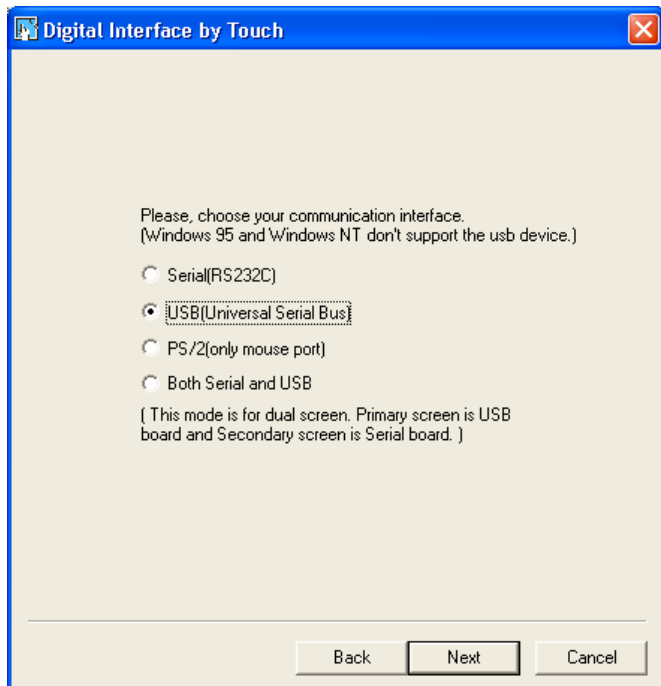
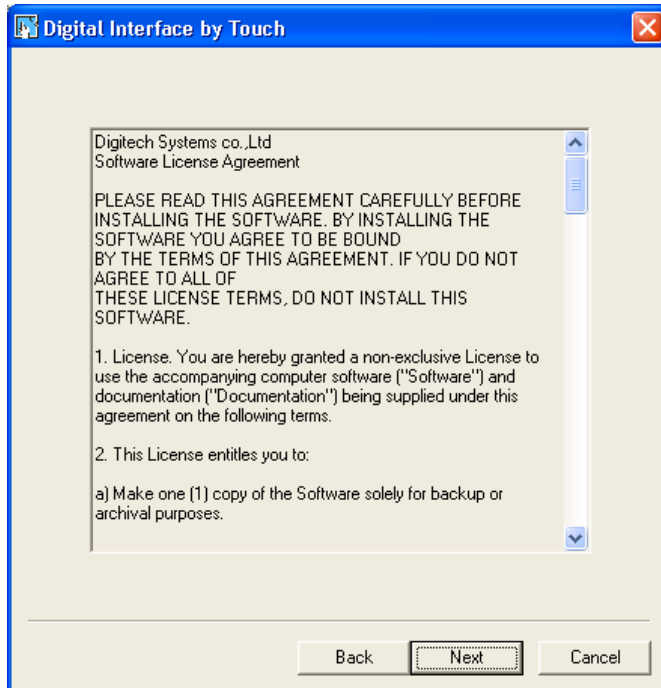
Chapter 4 Installations and settings

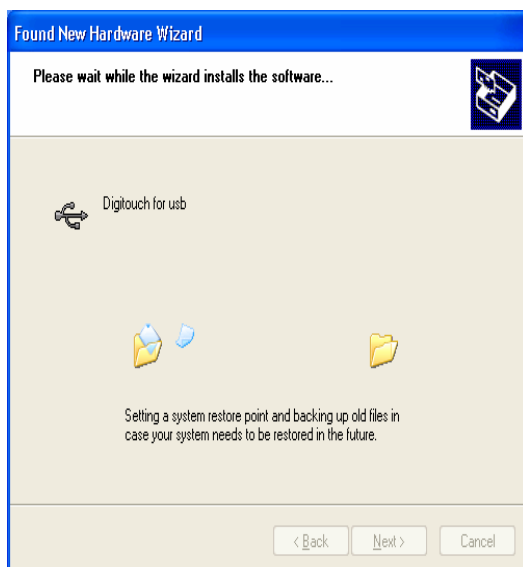
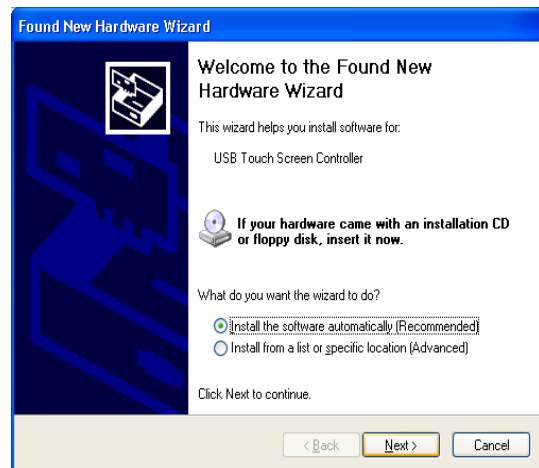
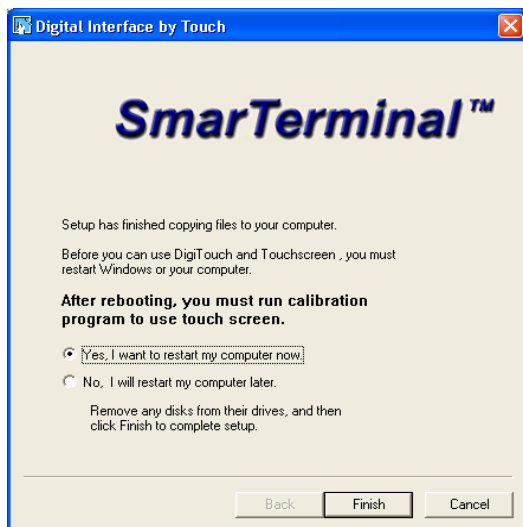
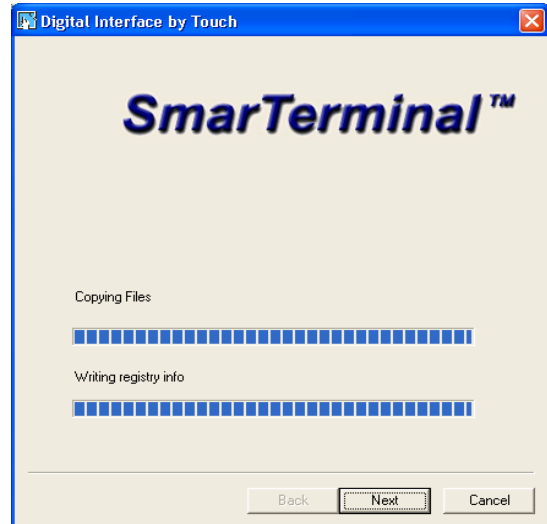
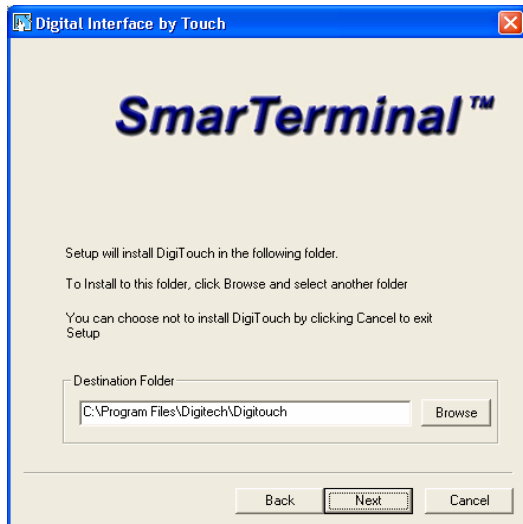
4.1 Touch program Installation (Touch screen / Stylus Pen operation program)

Please check if there is DigiTouch icon on the desktop, that means touch program is already installed, if not follow the steps below for installation

Please locate the Touch folder on hard drive (D:/ Drivers/Touch)

Click setup icon and follow the Setup wizard





4.2 Various Settings

Operation / settings	Key sequence to follow in XP
Power off	Start > Turn off computer > Turn off
Rotate settings	Start > Settings > Control panel > Display > Settings > Advanced > Intel(R) Extreme > Graphic Properties > Hotkey settings • Setting “270 degree” to “Ctrl+Alt+ Y”(Press Rotate key) • “Turn off special mode” to “Ctrl+Alt+ U”(Press Rotate key) • Click OK button
Display settings	Start > Settings > Control Panel > Display > Settings Set the following • Color Quality to Medium or Highest • Screen resolution to 800 by 600 pixels • Select “Apply the new color settings without restarting?”, and then click “OK” button To Activate CRT (VGA monitor) and LCD (Touch Panel) simultaneously Start > Settings > Control Panel > Display > Settings Set the following • Select Display “2. [Default Monitor]” • Color Quality to Medium or Highest • Check the Extend Box “Extend my Windows desktop onto this monitor” • Click OK button
Touch screen settings	Click Touch Control Manager at the bottom right corner • Hardware > Controller information > Connect : OK , If not then press Auto button till Connect sets to OK • Settings > Right Button > TIME / ICON (One touch setting) Note : One touch setting is not recommended • Turn on the Cursor Offset Toggle box To Calibrate the touch panel • Calibrate Tab > select 5 point calibrate > Calibrate button • The screen will show 5 points on the SmartTablet touch screen (Ctrl + Tab key) • Follow the instructions given on the screen • Touch the points shown as per instructions within given time • Once all points are successfully touched , Calibration success Box will appear

	• Press Rotate button and follow the calibration again. To check the calibration Draw > click draw button > whole screen will look like a check board , you can draw and check the calibration Press ESC to exit To set the touch options My computer icon on desktop > Tools > Folder options > General > Underline icon titles only when I point at them
On Screen Keyboard (OSK) settings	To enable on screen keyboard Start > accessories > accessibility > on-screen keyboard Will display a keyboard and can be used to insert the characters wherever you want. Note : To set GPS key to access OSK Set On screen keyboard as desktop icon Right mouse click on OSK icon > properties > shortcut > shortcut key > press GPS key (F2 will be shown)

Chapter 5 Installation / Application of wireless LAN

There are three networking options available with SmartTablet PC

- **MiniPCI card (Wireless LAN)** : It is built-in (optional)

5.1 Wireless network usage

In order to use wireless network following things are necessary

- Wireless LAN card in each SmartTablet which are intend to use wireless network (PCMCIA slot is available on each SmartTablet for the WAN card)
- For effective communication open space is recommended
- Wireless network driver

5.2 Installation of wireless network driver

1) Search for **D> SmartTablet drivers > WLAN > autorun.exe**. Select it for starting wireless LAN installation. Following screen will pop-up, select **Install software**.

5.3 Access to Wireless network

To access a network group connected with AP(Access Point)

You can access it without a condition setting

(Caution) The same way of access is required under the condition of an installed Residential Gateway.

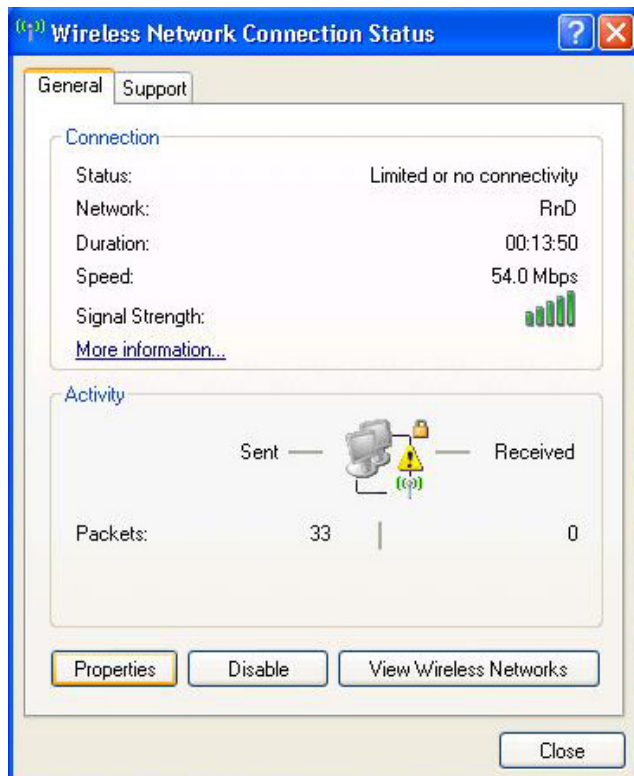
1) After connecting wireless LAN equipment, install a driver. Then, the **Wireless network connection** icon appears in Task Bar. Click the icon with the right button of the touch-pad, and click the list of **available wireless networks**



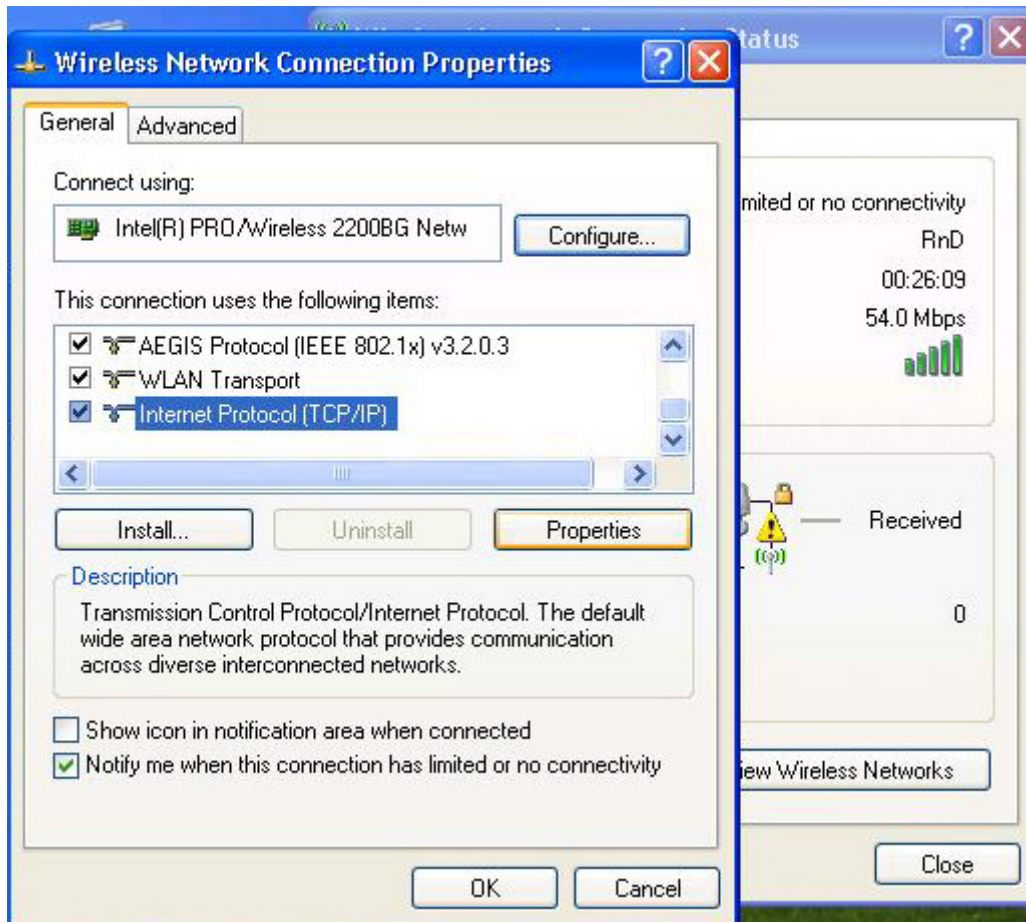
5) The **Wireless network connection(SSID)** icon appears in Task Bar. Click the icon.



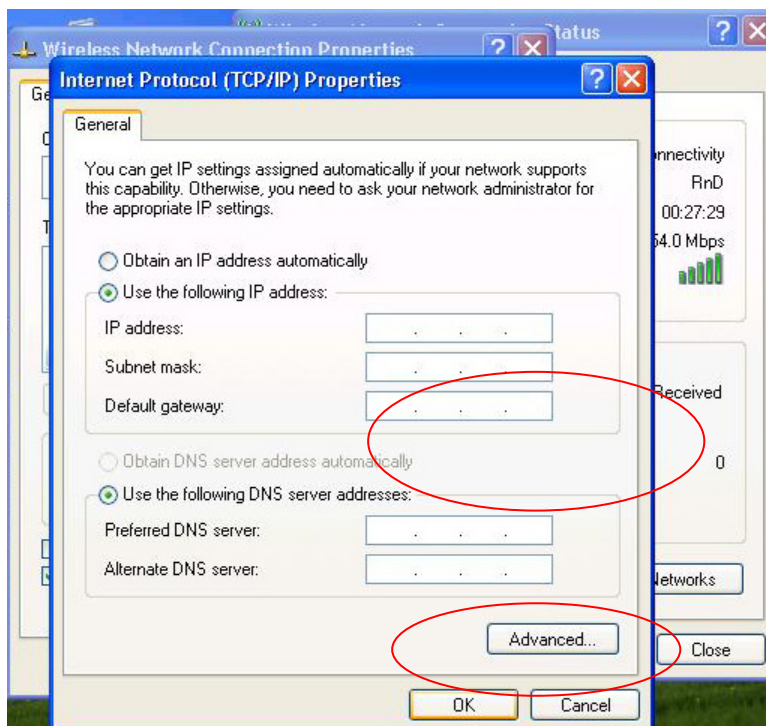
6) Click **Properties** in the Wireless Network Connection Status tab.



7) Click **Properties** in the Internet Protocol [TCP/IP].



8) Input IP address and DNS server address



9) Click **OK** in the setting is completed.

Chapter 6. Installation/Application of Bluetooth

6.1 Before using Bluetooth

“ Bluetooth” is one of Wireless Technologies. The aim of Bluetooth technology is tended to a low cost, low power, and short-range radio product. The idea to develop Bluetooth is for replacing physical cable connection in amount of mobile or portable devices.

Any two Bluetooth devices made as a Master-Slave structure creates a Bluetooth piconet network. A single Bluetooth piconet has one Master and at most seven active Slaves. The Bluetooth connection is only established between the Master and a Slave in a single piconet. Any two Slaves in a single piconet cannot create a Bluetooth connection.

6.2 Bluetooth Dongle installation

To use a Bluetooth wireless radio, it is required to install a Bluetooth dongle on each SmartTablet that consists of a network and to set up a dongle driver.

Your purchased SmartTablet provides 2 USB ports. Insert a provided Bluetooth dongle into any one port. (A Bluetooth dongle is an option when SmartTablet is purchased.)

When SmartTablet is purchased, a Bluetooth driver is already installed. But when you install the Window again, or you do not buy HDD, install the driver by yourself.

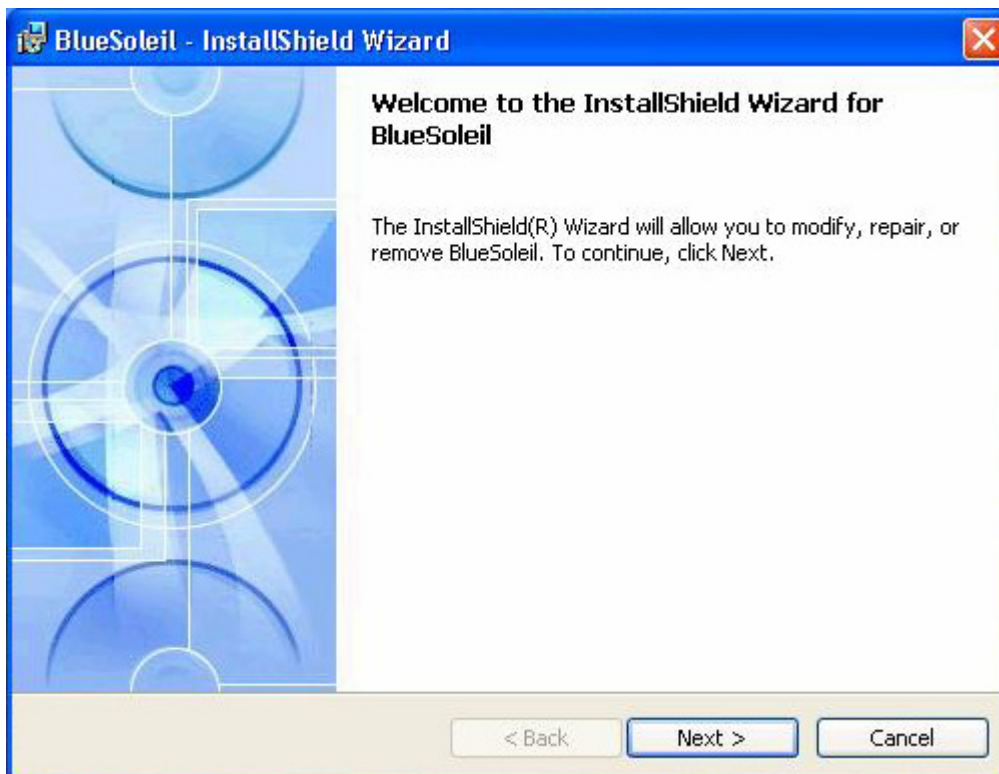
(Caution) It is advisable to use a Bluetooth in an open area. Networking may not work best under the condition of many walls or obstacles.

Installation of dongle driver

1) Insert a provided Bluetooth dongle installation CD into a CD drive or check if your hard disk drive has drivers (D:/ SmartTablet drivers > Bluetooth) if yes click on setup.exe icon. A screen shows up as follows. Select required language and select **OK**.



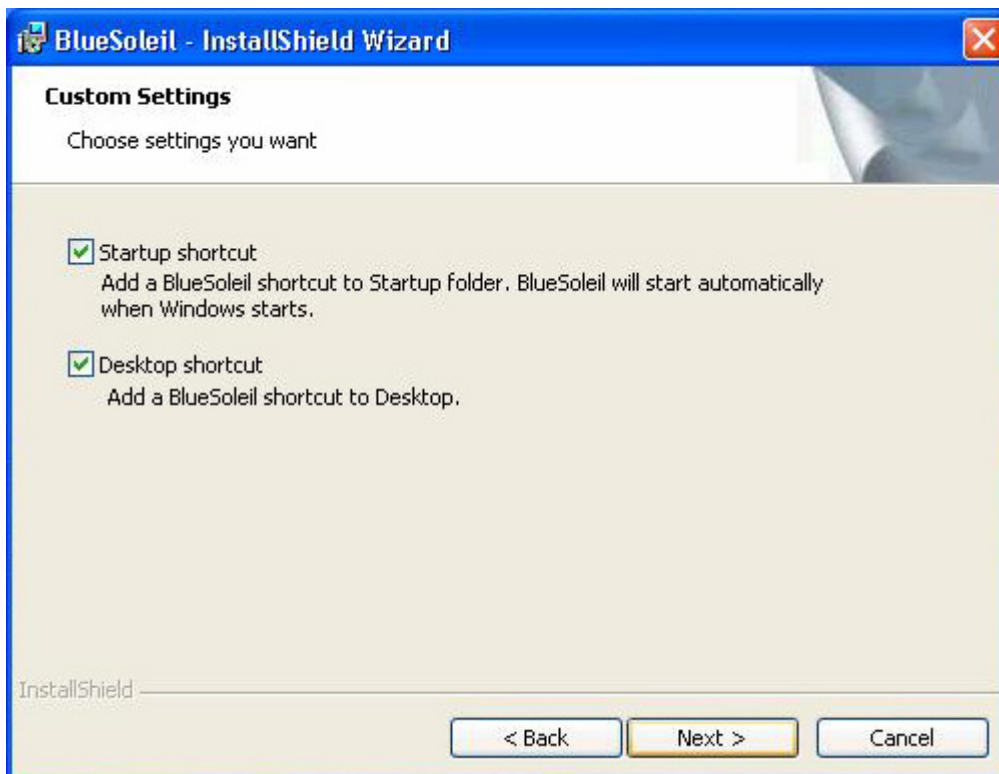
2) Select **Next** to proceed with installation.



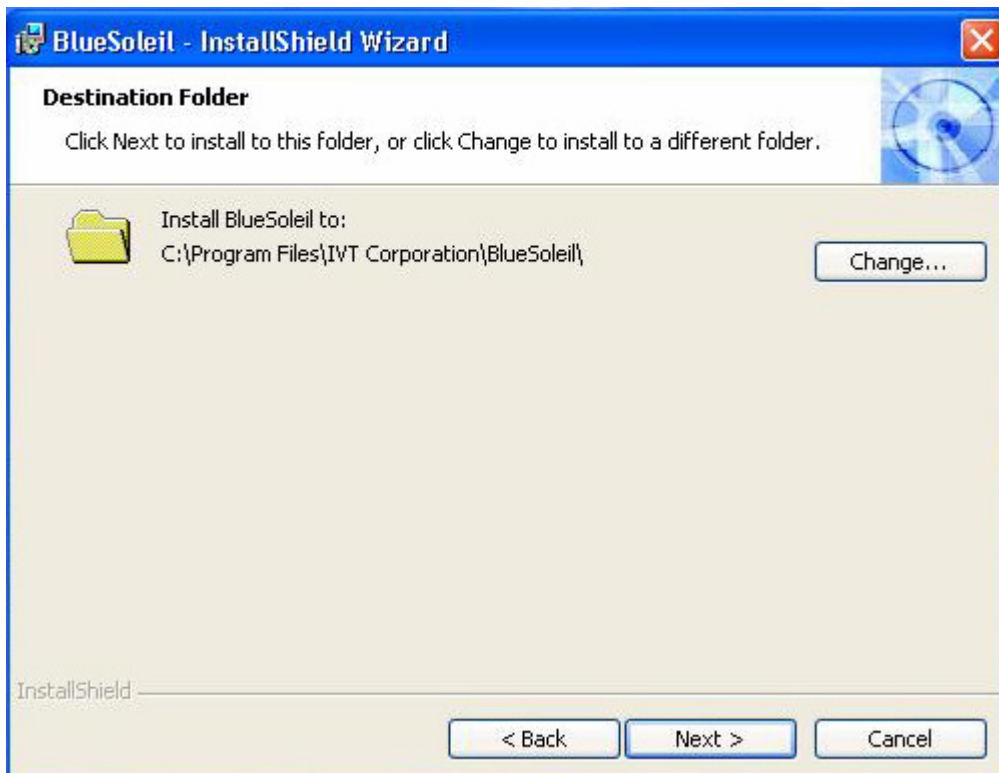
3) Read the license agreement, **accept** the conditions and select **Next**.



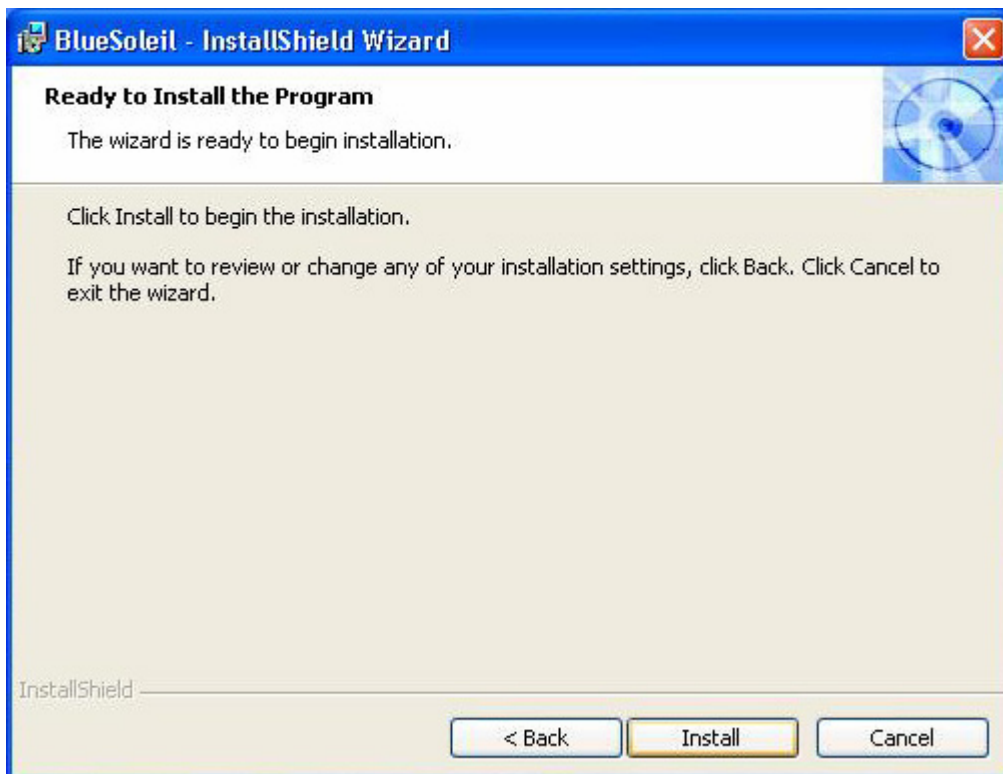
4) As per the requirement select the custom settings.



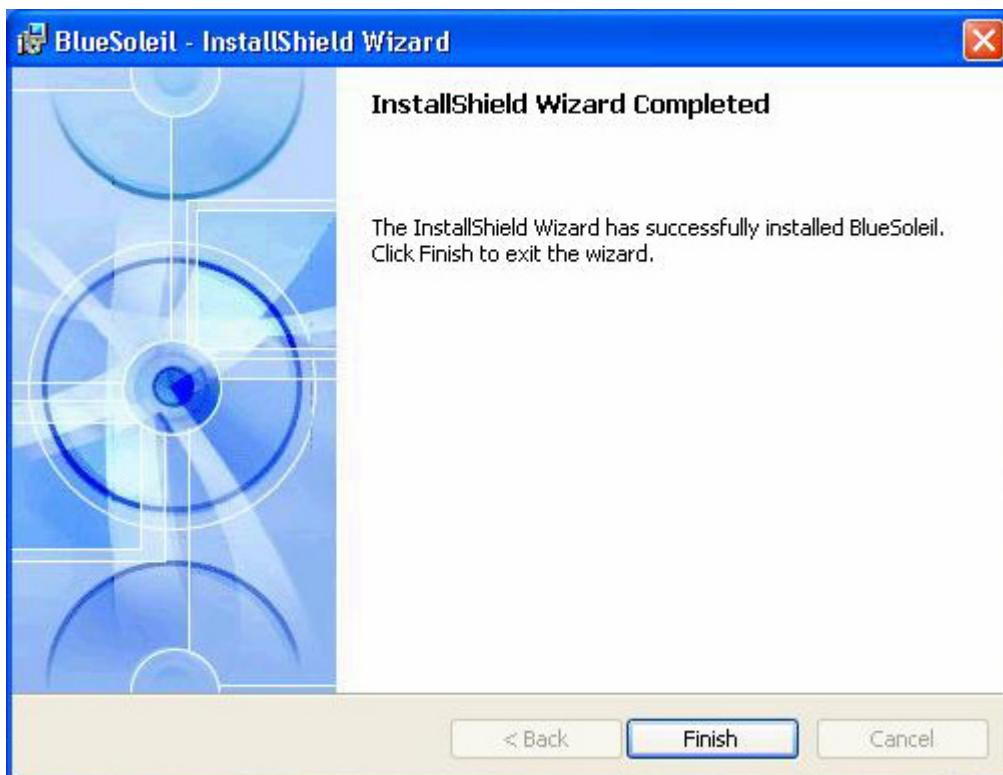
5) Choose appropriate location for installation using **Change** button and select **Next**.



6) Select **Install** to start installation.



7) After successful installation, select **Finish** to exit installation.



8) Please check on desktop for successful installation, if there is icon for Bluetooth Devices as follows:

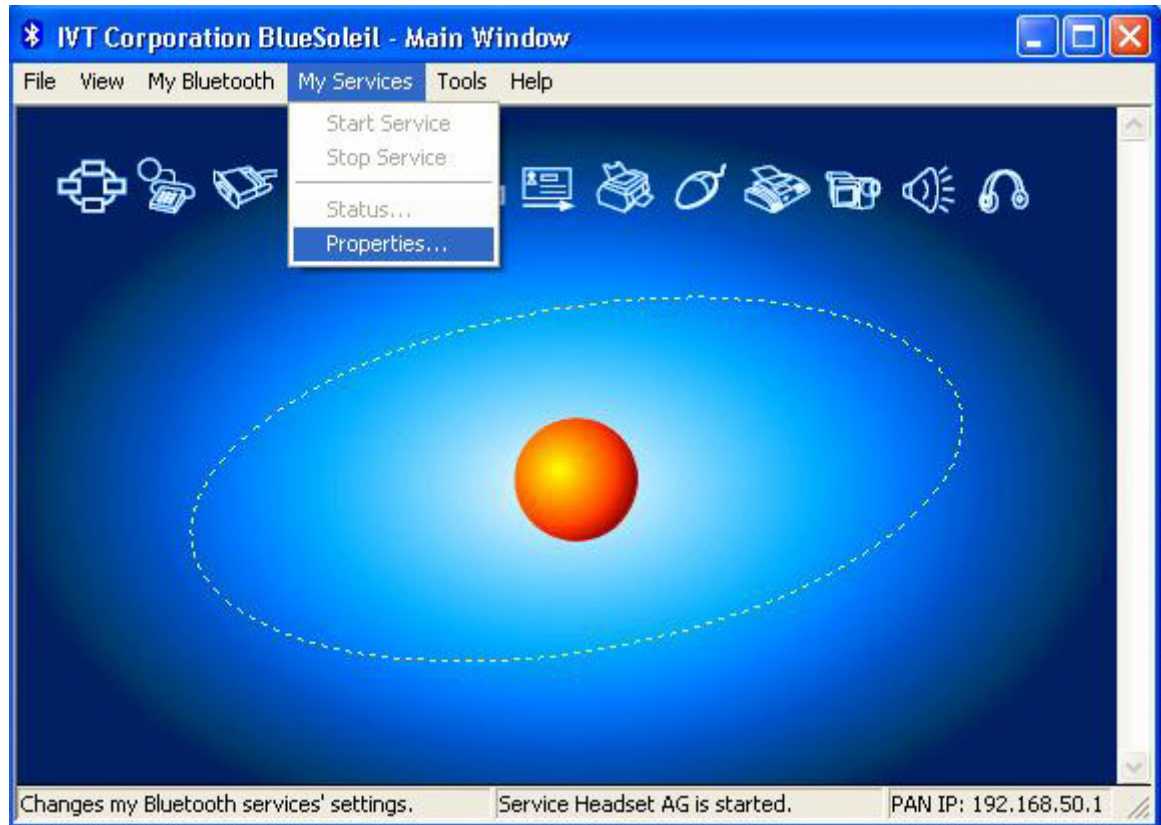


6.3 Bluetooth Applications

1) Bluetooth Applications (Client Applications)

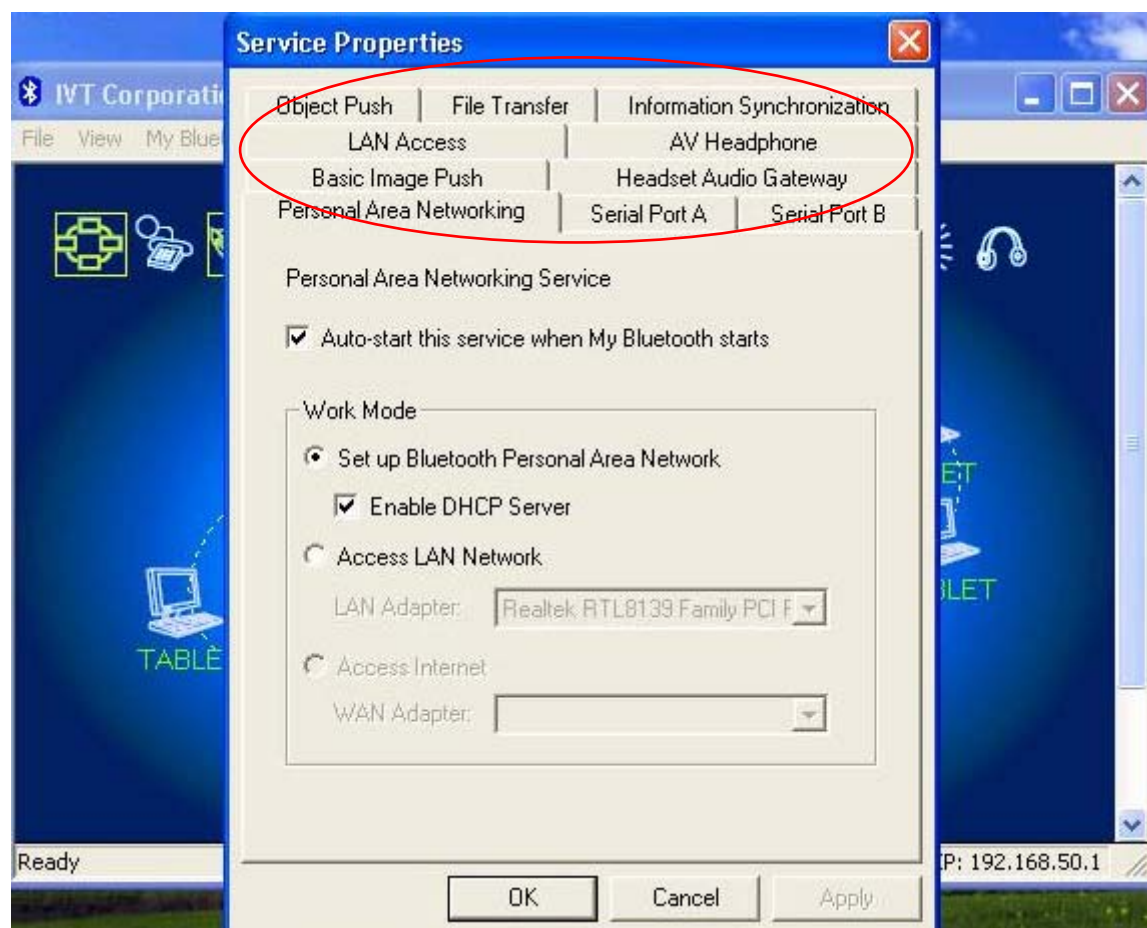
"run <BlueSoleil> on desktop or Bluetooth icon on the right-bottom of the tray".

This functionality is to allow this computer to access to a remote Bluetooth device for any services that the remote Bluetooth device is provided for. The service configuration setting is located on **my service>properties...**



2) Bluetooth Services (Local Services)

This functionality is to configure this computer to support Bluetooth service to remote Bluetooth devices. The Bluetooth services of this computer provided are Audio Gateway, Dial-up Network, Fax, Headset, Network Access, Personal Information Management Exchange, Personal Information Management Synchronization, File Transfer, and Serial Port Profile. The service configuration setting is located on **my service>properties.**



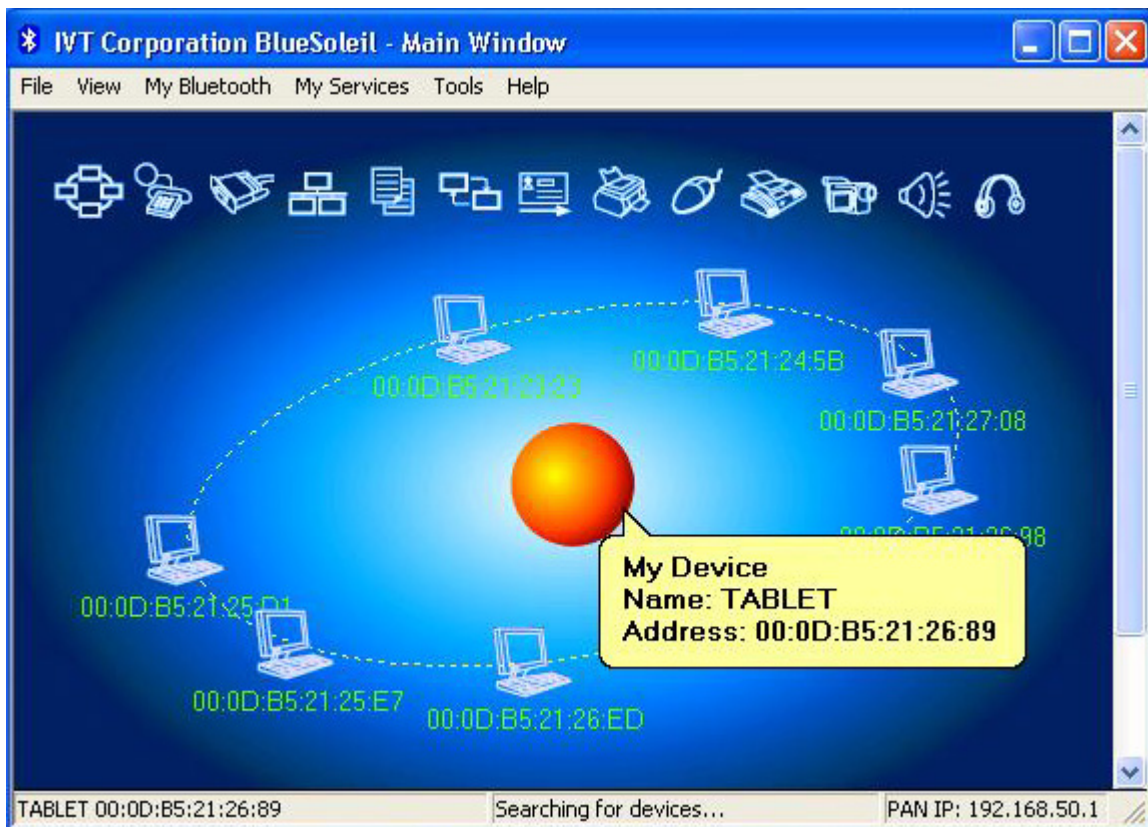
3) Bluetooth Icon

The Bluetooth icon in the Windows system tray provides at-a-glance feedback about Bluetooth status

Bluetooth Icon Indicates Bluetooth Status		
Enabled	Disabled	Connected
		

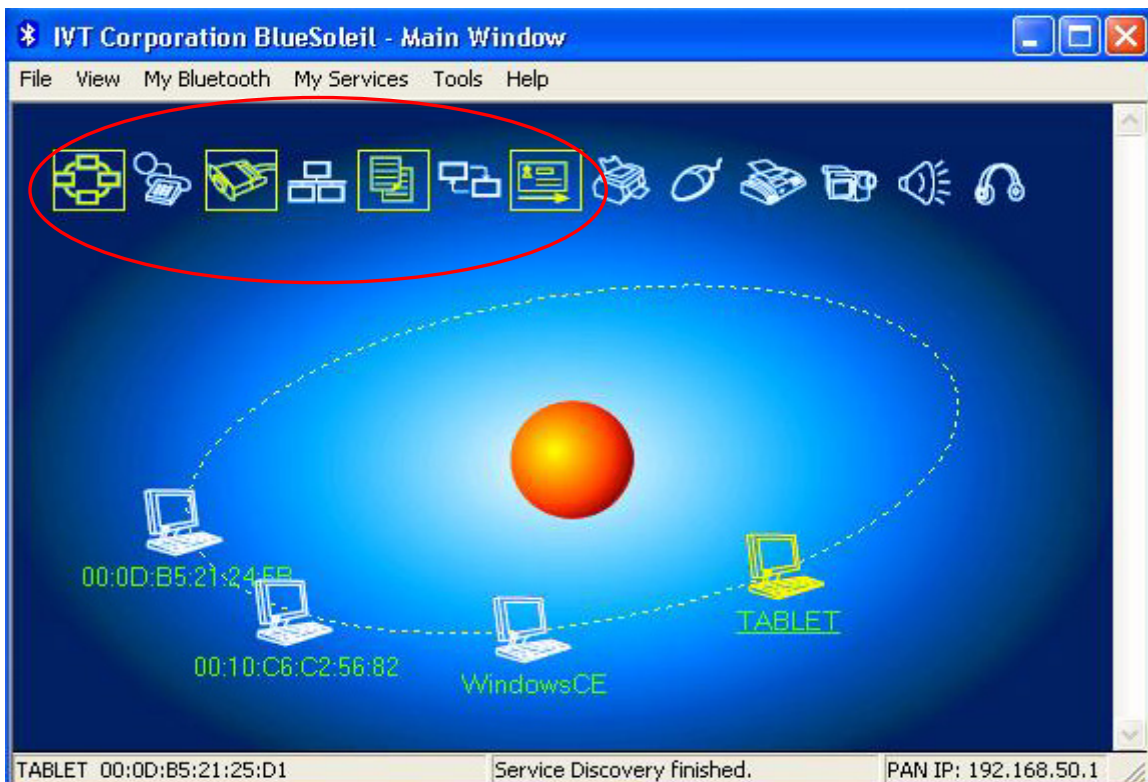
4) Device Icons – searching for devices

When you click the orange circle in the middle of screen, Tablet is trying to look for related devices as follows.



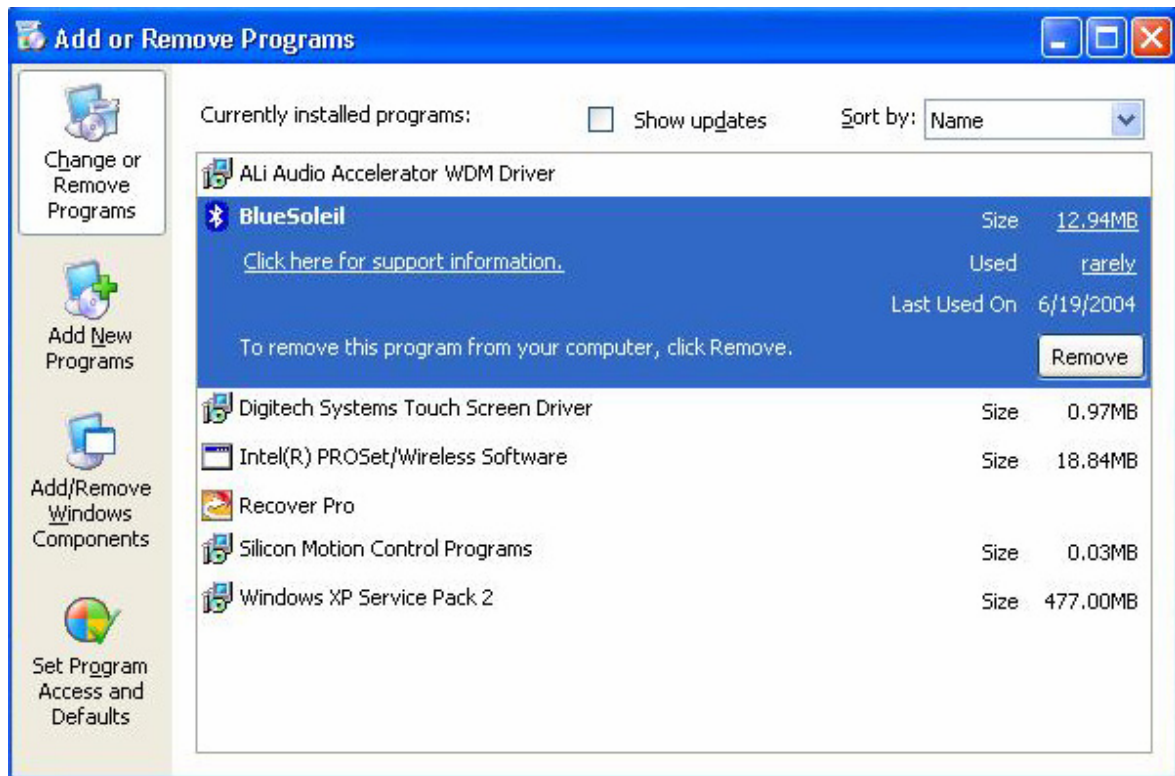
And then when the appropriate device is selected, one related icon which is listed on the top will be covered by a box.

These icons show the status of Bluetooth device connection.

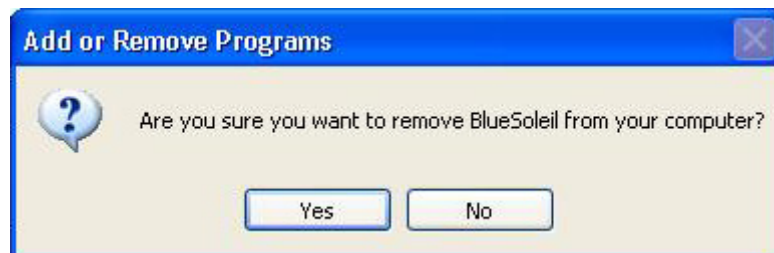


6.4 Bluetooth Dongle Removal

- 1) Move into **Start > Setting > Control Panel > Add or Remove Programs**
- 2) Choose **BlueSoleil** and click **Remove**.



- 3) In a checking message that shows up as follows, click **Yes**.



Chapter 7 Recovery program settings

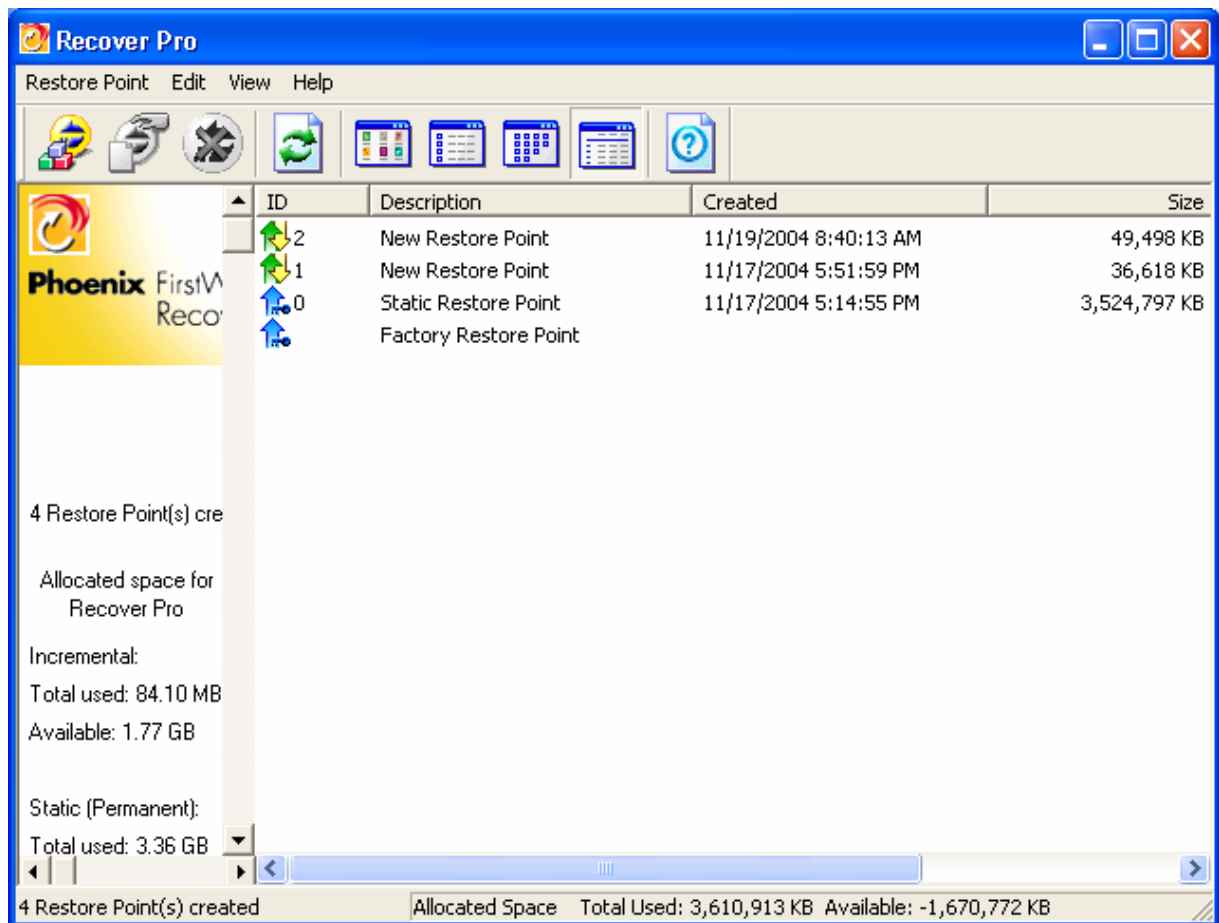
7.1 Firstware Recover Pro by Phoenix Bios – Data/System Backup

This recover product offers advantages for User System, Application Program and Data Backup. A factory backup is installed in the plant, and the user can define his or her backup coverage independently. This product can be installed only on hard disk.

7.2 How to use the recovery pro?

Click on the Recover Pro icon on desktop, following dialog screen will pop-up

On windows

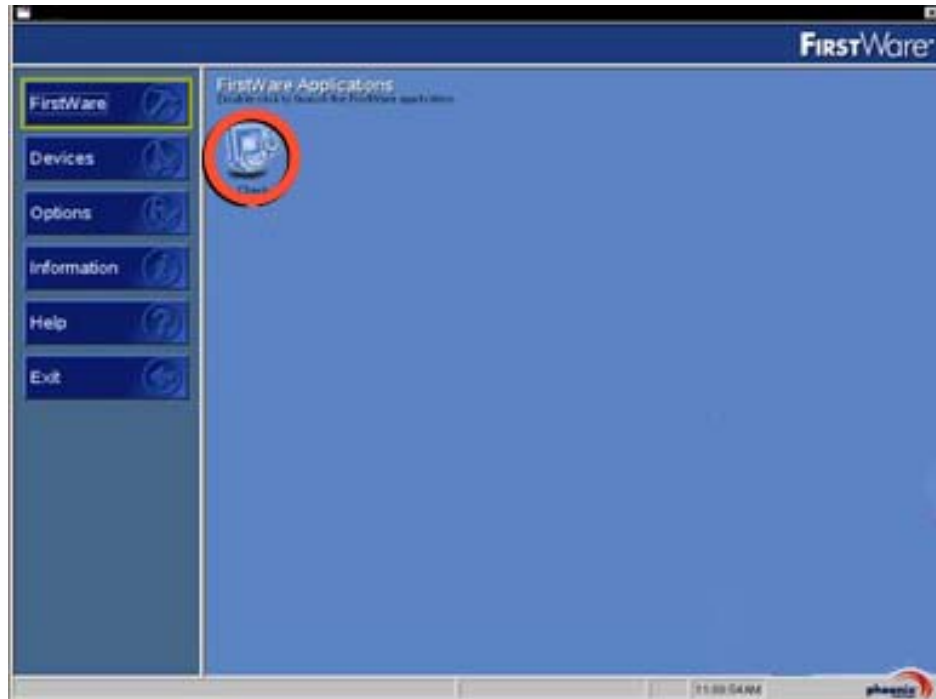


On DOS

CME Console Execution for Recover Pro

Click "F4" during memory check and screen convert

- The language changes from the Options.



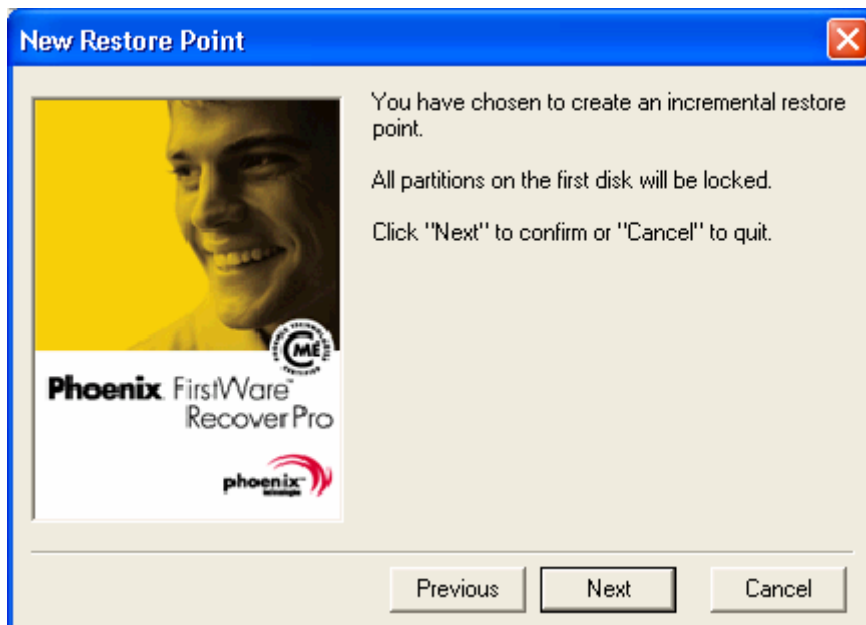
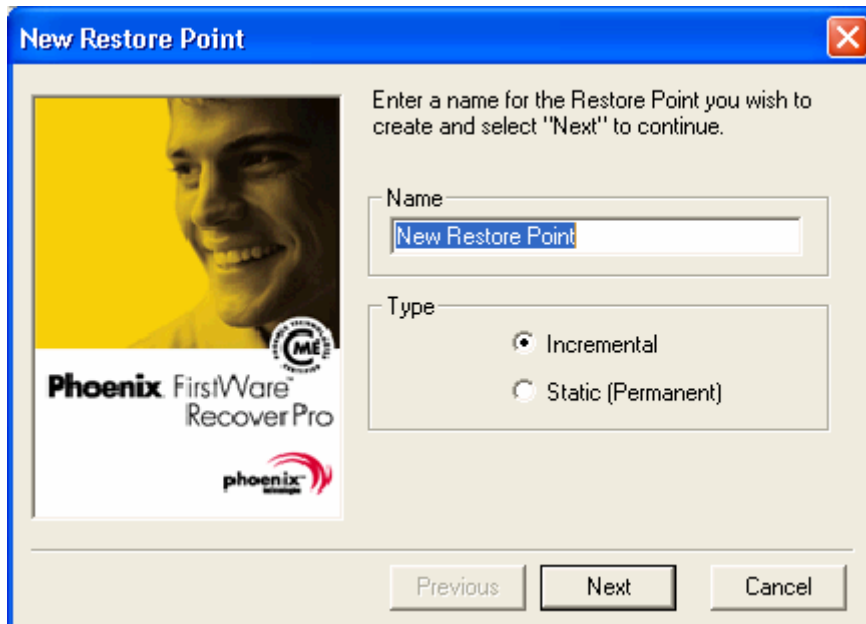
Recovery program allow following recovery points

- New restore point (daily -- automatic creation)
- Static restore point (factory or user -- manual)
- Factory restore point (only in factory)

7.3 How to create New restore Point?

Click menu option Restore point > New > Select the type (incremental / Static) > Next

Wait till the new restore point get created



7.4 How to recover system back from restore point?

Select the recovery point and Click Restore Point > Restore

Chapter 8 Global Positioning System (GPS)

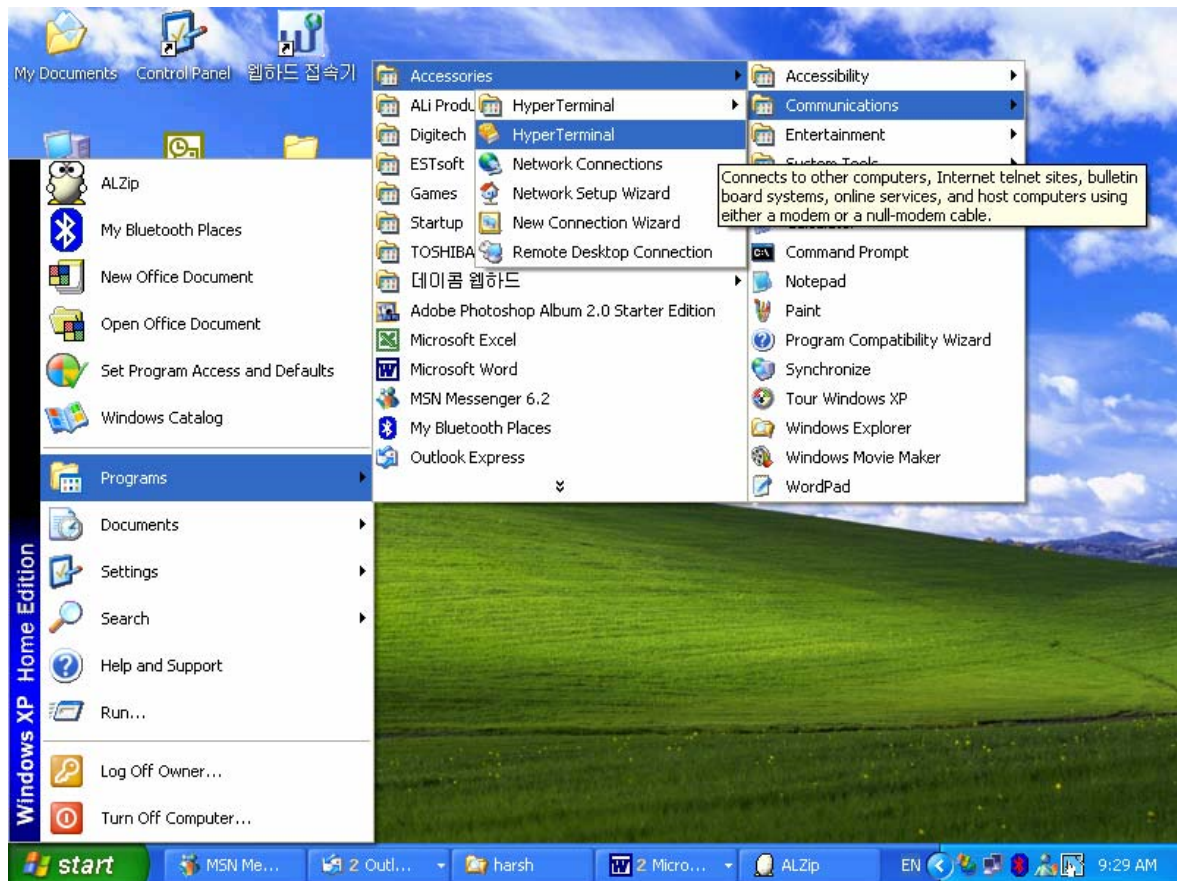
8.1 Installation and operation of GPS

Necessary connections

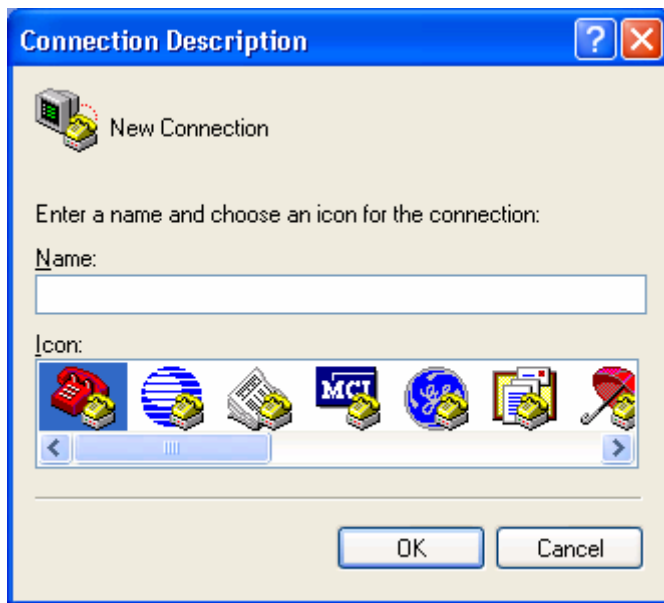
GPS antenna has to be connected to GPS antenna jacket, which is located on top side of SmartTablet

Following settings are necessary for GPS module communication test

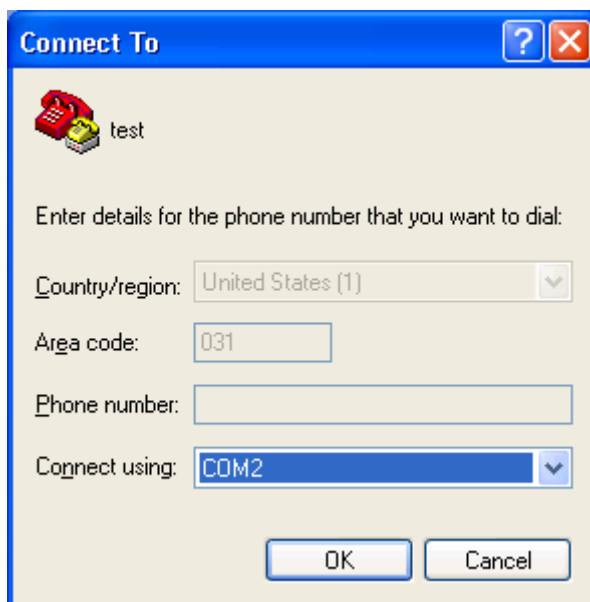
Start > programs > accessories > communications > HyperTerminal



Following dialog box will be displayed



Enter Name and click OK button



Connect using COM2 > click Ok button

Set the port settings as follows

Bits per Second > 4800

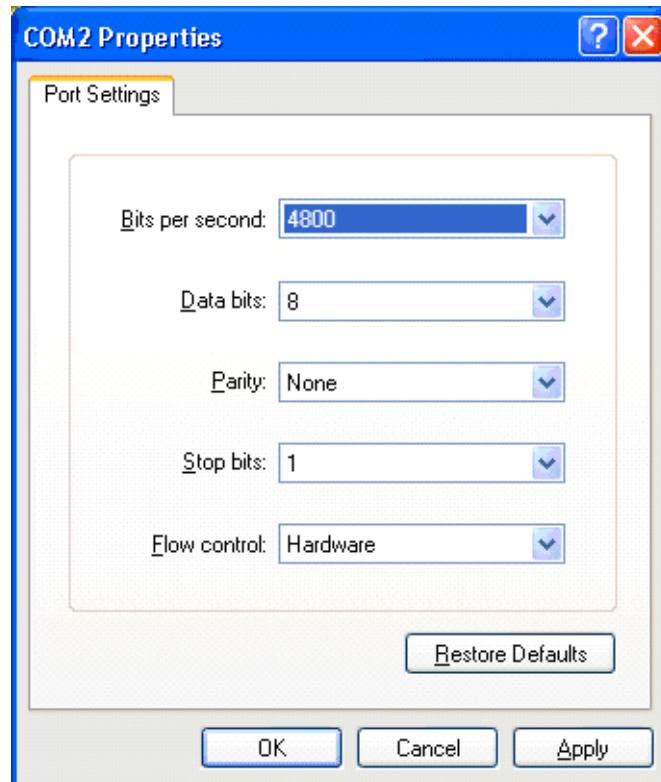
Data bits > 8

Parity > None

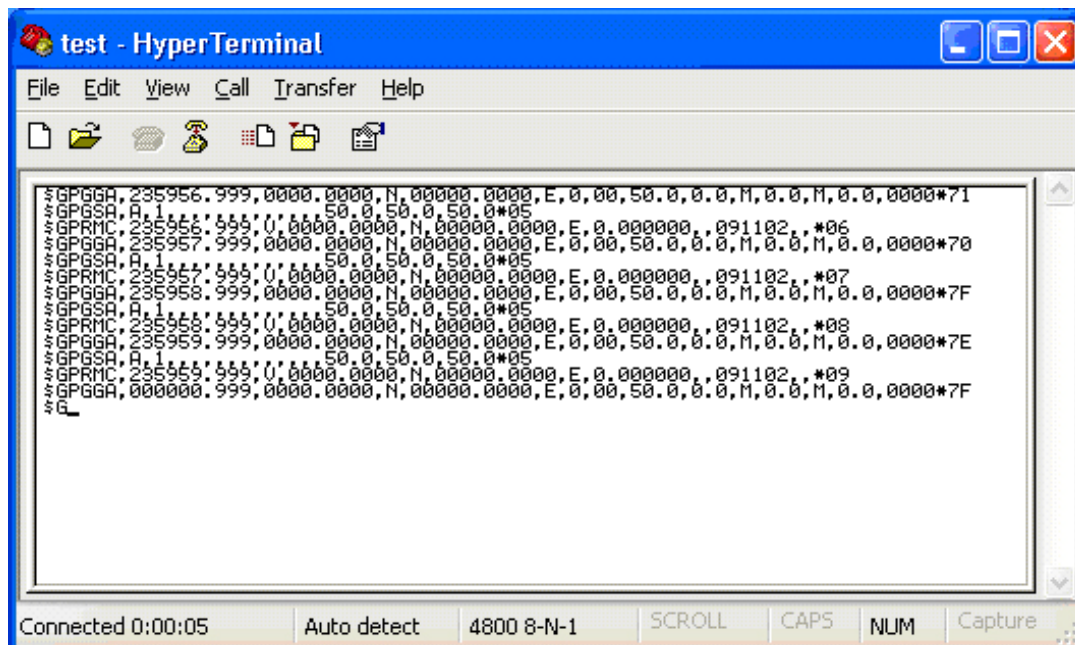
Stop bits > 1

Flow control > Hardware

Click OK



This will enable a GPS session as follows



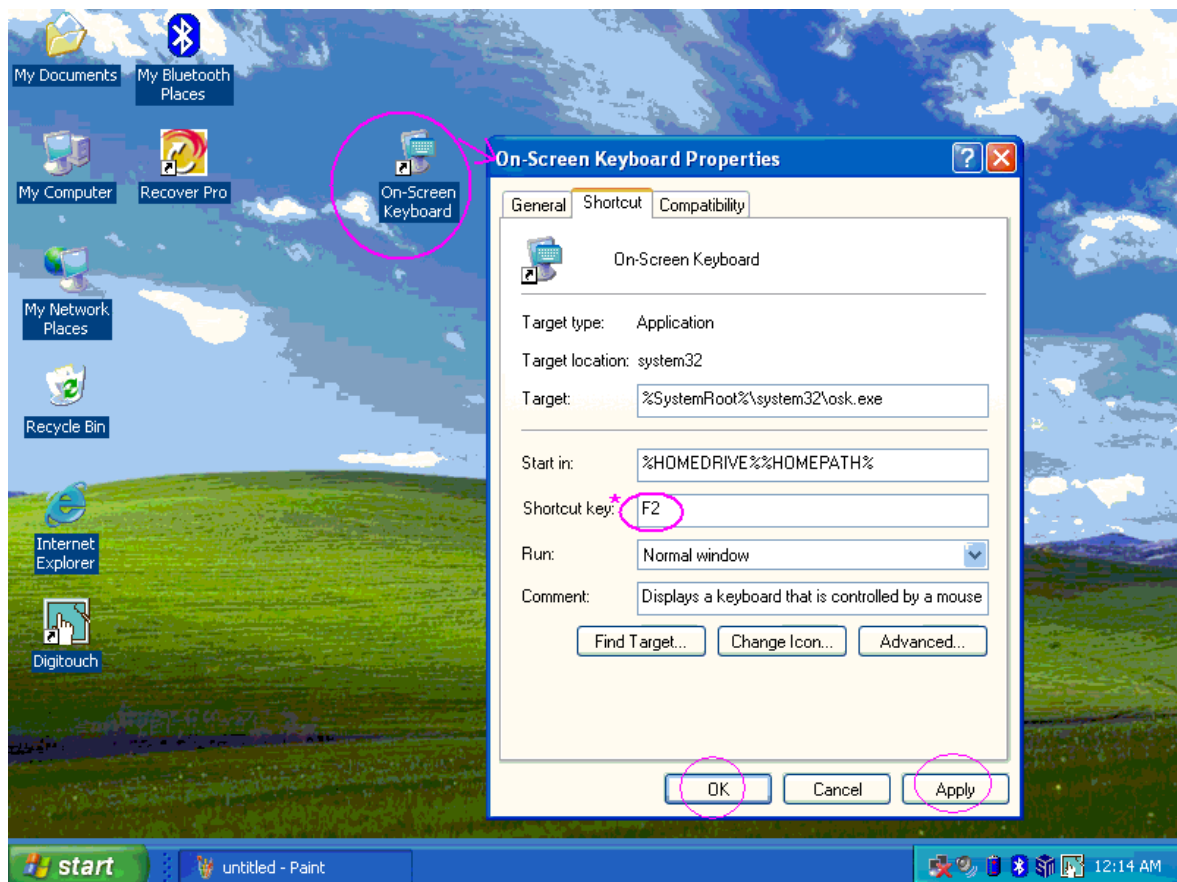
8.2 Setting GPS/F2/OSK key as onscreen keyboard key

Start onscreen keyboard as follows

Start > Programs > accessories > accessibility > onscreen keyboard

Drag the option outside to make it a desktop icon.

- Normally GPS acts as <F2> key which is available on the right side of SmartTablet.
 - To set GPS key as Onscreen Keyboard (OSK key) Make the following settings once Right mouse click on Onscreen keyboard icon > properties > shortcuts > go to shortcut key option and pres GPS key on SmartTablet PC.....F2 will be displayed as shortcut key > apply > Ok
- Now GPS key toggles to Onscreen keyboard on and off by pressing it sequentially.



Chapter 9 Accessories and Peripheral devices

9.1 PCMCIA Cards

External LAN and WAN cards can be connected to SmartTablet details are given in chapter 6
SmartTablet also comes with inbuilt LAN card.

(Note that SmartTablet supports both 3.3 volts and 5 volt)

9.2 Monitor

To connect monitor use mini VGA cable from monitor to VGA port of SmartTablet.

For settings please refer Chapter 4.2 Display settings.

Once the display settings are changed so as to use VGA monitor, they remain set till

SmartTablet is used with VGA monitor.

They get refreshed once the SmartTablet is used without VGA monitor for saving the power, if user intends to use the VGA monitor again; he has to set the display settings for VGA monitor again.

9.3 Keyboard

USB or PS2 keyboard can be used to connect to SmartTablet.

9.4 Mouse

Only USB mouse can be used to connect to SmartTablet.

9.5 Microphone and Speakers

On left side there are slots for external microphone and speakers/headphones

9.6 PS/2 Device

SmartTablet is equipped with PS/2 port as the external Port. This PS/2 port supports PS/2 keyboard. PS/2 mouse can not be used with SmartTablet.

PS/2 devices should only be connected with the power off and if the device is connected or changed while the power is on, then the system may malfunction.

9.7 External storage devices

Two external storage devices can be attached to SmartTablet

Hard disk Drive: 2.5" Typical hard disk drive is installed in SmartTablet

Compact flash card (slot available on right side)

Compact flash have many advantages over the typical spinning hard drive. Since it is a solid-state device, it can be exposed to much higher levels of shock and vibration.

Other advantages include lower power consumption, superior battery life, and much cooler operation, which improves the reliability and lifespan of the external electronics of a computer.

This feature requires a minimum of 512MB of Main Memory.

Appendix A

SmartTablet Specification Highlights

Physical and Environmental Characteristics

	SmartTablet-C	SmartTablet-CM	SmartTablet-PM
Dimensions:	10.75" W x 7.76" H x 1.66" D (273 mm W x 197 mm H x 42 mm D)		
Display Diagonal:	8.4" (213 mm) diagonal, 6.75" W x 5.0" H (171 mm W x 127 mm H)		
Weight:	3.85 lb. (1750 g)		
Sealing:	IP 54 Compatible		
Operating Temperature:	-4° F to + 122° F (-20° C to + 50° C)		
Storage Temperature:	-22° F to +140° F (-30° C to +60° C)		
Humidity:	5% - 95% non-condensing		
Fan	Fan less	Integrated cooling fan (0.98" x 0.98" 25mm x 25mm) – User may Select to easily disable fan for special operating environments through BIOS settings	

Performance Characteristics

	SmartTablet-C	SmartTablet-CM	SmartTablet-PM
Processor:	Transmeta Crusoe 5800 (800MHz)	Intel Celeron M 1GHz	Intel Pentium M 1.1GHz
System Memory:	256MB DDR RAM up to 512MB(Option)	512MB DDR RAM up to 1GB (option)	
Display:	SVGA (800 x 600) 262K Color TFT LCD with resistive touch panel		
Display Brightness	220NIT Optional Low Reflective touch film (Sun-readable)		
System Recovery	FirstWare Recover Pro License from Phoenix for Factory and User Defined Recovery on HDD		
Application Development:	Standard desktop application development tools		
System Expansion:	1 Compact Flash Type II Slot (external access) 1 PC Card Slot Type II (external access)		
LED:	One two-color LED for alarm notification : charger indicator / active HDD indicator		
Audio:	Line-IN/OUT , internal Mono speaker, microphone		
Other I/O:	PS/2 Keyboard, VGA, Serial, LAN		
USB:	Two USB ports, support USB 1.1A Compliant Function / USB 2.0 for SmartTablet-CM and SmartTablet-PM		

Docking Station:	PS/2 Keyboard, USB 1.0A(1), Power Jack, RJ-45 Ethernet LAN
Accessories	Stylus Pen, AC/DC Adapter/Charger, Hand strap , Shoulder strap
Network Characteristics	
Wireless:	802.11a/b/g (11-54 Mbps) 2.4 GHz, Bluetooth (Class II): optional
Remote Modem (WAN):	Optional CDMA1-X1 (Class B) or GPRS(GSM) through PC Card Slot – Local purchase recommended
GPS:	Global Positioning System (optional, integrated)
Regulatory Approvals	
SmartTablet-C - FCC Class B, CE compliant , SmartTablet-CM/PM – RoHS, FCC Class B, CE compliant	
Power Supply	
Power and Battery System:	3600 mA Li-Ion removable battery (3 operation and 5 standby mode hours)* 6600 mAH (4 operation and 7 standby mode hours)* optional battery, power adapter with 110 V ~ 240 V ac
* Operation and standby hours may depend on applications	
Optional Performance Characteristics	
Operating System	Windows XP, XP Embedded
Storage	2.5" Hard Disk or higher(Internal, Removable) , 2GB or 4GB IDE internal Compact Flash card(Windows XP Embedded)
Optional Accessories	
Docking Station (Desktop, Vehicle), protective carrying case (protective case), 3 Pack External Battery charger	
DC/DC Cigar-jack adapter: Input 12V, Output 19V, 70W	
DC/DC Converter (External) : Input 18~54V, Output 19V, 75W	

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Appendix B

Version Table

Version: STQRG003-P

Release Date: 10/02/2007