Tablet PC System

TTAB910

User Guide

Tablet PC Desktop

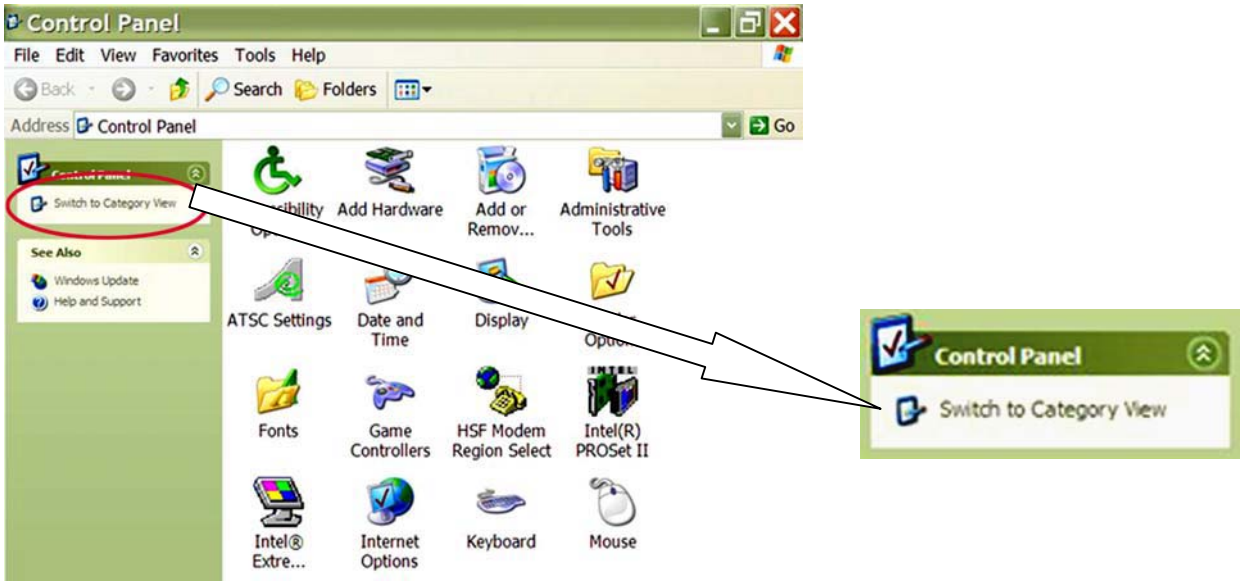
Control Panel Views

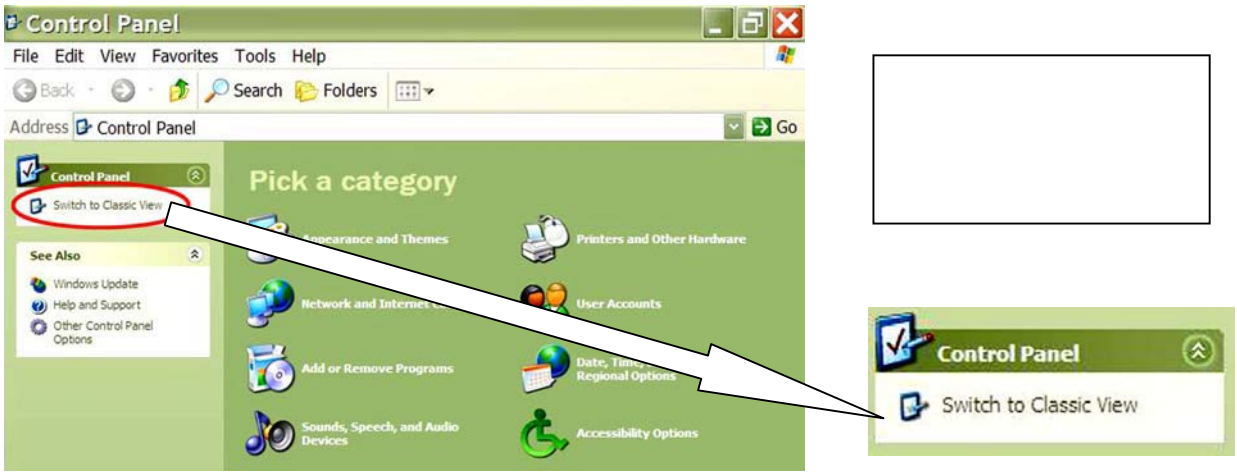
You can view the Control Panel in 2 views, Category and Classic. To select the view most appropriate for you, follow the steps below.

①

Go to **Start > Control Panel**.

②





Tablet PC Appearance

To increase your Tablet PC visual friendliness, you may change its color scheme, and increase its font size and icon size. Follow the steps below.

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Chapter 1 Introducing the Tablet PC

Product Overview

Tablet PC combines the versatility of a pen and tablet with the functionality of a laptop to bring you a truly mobile tool for your work and personal use. This lightweight, page-size PC gives you easy access for retrieving and entering information using the latest Widows-based applications.

Congratulations on your new purchase! Now, you may start enjoying a few of the vast amount of benefits Tablet PC has to offer you right away. They are:

- The spacious and user-centered design of the PC gives you the convenience of resting your hand on the screen while writing.
- Highly advanced speech recognition system in the PC turns it into a dictation machine that converts your voice into text.
- The lightweight PC allows you to conduct business wherever you go and increase your work productivity.
- No more hassle with entering information into your PC! With your stylus, you can scribble directly on the Tablet PC screen and your handwriting is instantly transferred into text.

Safety Information

Be aware of the following 2 symbols used in this user manual. Each symbol denotes important and helpful information that will benefit you while using the computer.

⚠ **Warning!**
This symbol informs you that improper use of equipment or failure to follow instructions may cause property damage or bodily injury.

* **Note!**
This symbol offers advice that helps you to take full advantage of the Tablet PC.

To preserve your Tatung Tablet PC in the best possible condition, you should follow the safety measures below.

* **Note!**
You need to view the PC screen from 15” to 18” away for best viewing.

* **Note!**
For comfortable viewing and glare reduction, keep the PC screen away from direct sunlight.

⚠ **Warning!**
Never touch the screen with your fingers, because skin oils are hard to remove.

⚠ **Warning!**
Never remove the rear cover of the PC, because some PC parts contain high voltage.

⚠ **Warning!**
Keep the PC screen away from direct sunlight and other powerful light source.

⚠ **Warning!**

Avoid putting heavy objects on the screen and any PC wire parts.

⚠ **Warning!**

Avoid operating the PC in outdoor environments of extreme cold, dampness and wetness.

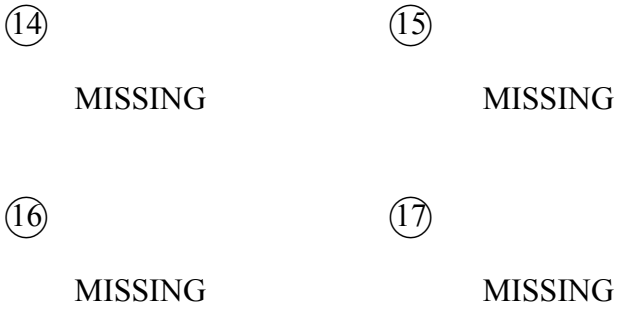
Inventory Checklist

* **Note!**
Your content items may vary depending on purchase.

① Tablet PC x 1
② 4-cell Lithium Battery Pack x 1
③ Stylus x 1
④ Stylus Cord x 1
⑤ Telephone Cable x 1
⑥ Slip Cover x 1
⑦ Mini VGA Cable x 1
⑧ Soft Cleaning Cloth x 1
⑨ AC Adapter x 1
⑩ AC Power Cord x 1
⑪ Stand x 1
⑫ CD x 1
⑬ Quick Start Guide x 1

Optional Items

⑭ Rubber Hand Grid
⑮ SDRAM DIMM
⑯ IR Keyboard
⑰ 8-cell Extended Lithium Ion Battery Pack



Chapter 2 Seeing the Tablet PC

Different Types of Tablet PC

Section for briefly explain the different types of tablet pc & the important features of each type.

Include a front view picture for each type.

Front View of the Tablet	picture & labels
Back View of the Tablet	picture & labels
Topside View of the Tablet	picture & labels
Bottom Side View of the Tablet	picture & labels
Right Side View of the Tablet	picture & labels

What do the lights stand for? Their icons and functions are shown below:

Power Indicator. The steady green light indicates that the PC power status as ON. When in Standby mode, this light flashes slowly. The dark light indicates that the PC power is OFF.

Hard Drive Indicator. The flashing green light indicates that the PC hard drive is operating.

Battery Indicator. The flashing red light indicates low battery. The steady red light indicates that the battery is charging.

Chapter 3 Setting up the Tablet PC

Charging Tablet PC Battery

Before you can use the Tablet PC for the 1st time, you need to charge its empty battery for at least 4 hours with the Power OFF to reach its maximum battery energy.

The illustration below shows you the setup process.

①

Begin with Tablet PC & its 4-cell Lithium Battery Pack unattached.

②

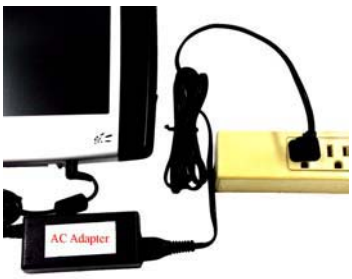
Unlock battery switch by pushing it downward.

At the same time, insert battery pack into the slot.

③

Release battery switch to lock it.

④



Plug in the AC Adapter into the AC/DC Power Jack.

Connect AC Adapter to the nearby power outlet.

The 4-cell Lithium Ion battery pack has 3.5 maximum hours of source life. However, battery life may vary depending on your Tablet PC usage.

Your battery charging times differ depending on whether the power is ON/OFF and the current system state. See the table below for a list of battery charging times for different system states.

Tablet PC States	Battery Charging Times
Power ON	
Idle position	3 hours & 13 minutes
Standby position	2 hours & 50 minutes
Operating position	11 hours
Power OFF	2 hours & 47 minutes

The battery pack is removable and user inter-changeable.

Using the Stylus

You can now use the stylus to function as a mouse. With the stylus, you can still move, delete, and open folders on the screen.

You must watch the cursor as you move the stylus on the screen instead of aiming the tip of the stylus on the intended object. To activate PC button functions, you press them with the stylus. To drag items, you simply need to aim your cursor at them.

Follow the methods below to trigger the 3 typical mouse functions with your stylus.

Mouse Functions	Stylus Functions
Double-left click	Double-tap
Single-left click	Single-tap
Right-click	Tap & hold

The scenario to the left appears when you initiate right-clicking function.

* **Note!**
You can customize pen actions. Go to **Start > Control Panel > Tablet and Pen Settings > Pen Options**.

* **Note!**
You can also access **Tablet and Pen Settings** in the system tray. Tap

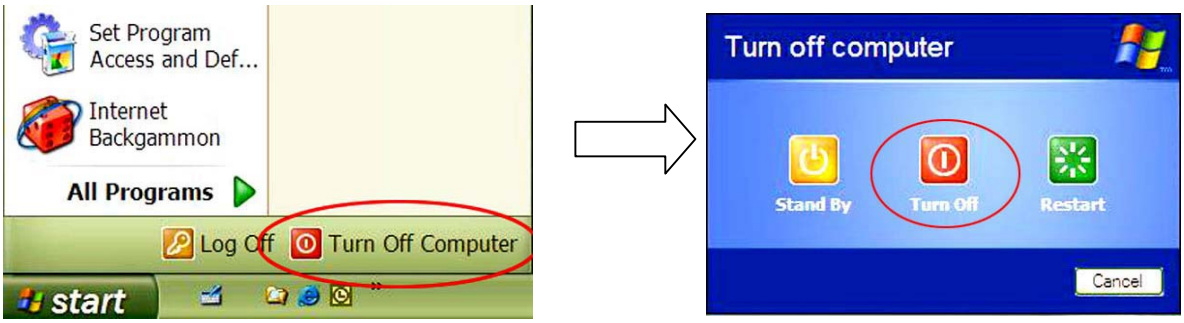
Turning On/Off the Tablet

You can turn on the Tablet PC by pressing the power button located as shown below.

PICTURE OF POWER BUTTON LOCATION

You have 3 methods to turn off the PC with your stylus, and they are:

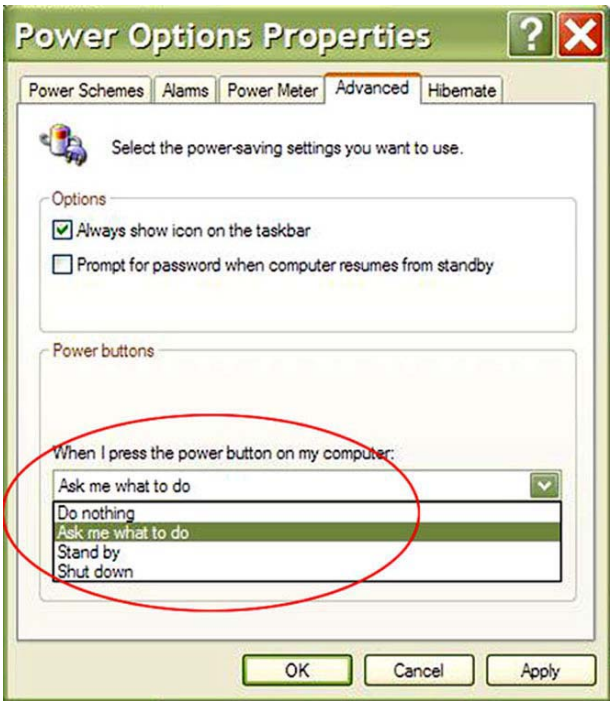
① Go to **Start > Turn Off Computer > Turn Off**



② You can force the PC to shut down by pressing the power button and hold

for more than 4 seconds with your stylus.

③ Or you can set the Tablet to automatically display when pressing the power button once. This way you can easily make the selection on the screen.



To change the power button setting, go to **Start > Control Panel > Power Options > Advanced**.

Putting the Tablet in Standby Mode

You have 2 methods to place the Tablet PC in standby mode.

① This is the default setting where you press the power button for less than 4 seconds. Then the system is automatically placed in standby mode.

To recall the system from the standby mode, you simply press the power button once more.

② Or you can choose **Standby** from as shown below.

Changing New Battery (Hot Swap Time Process)

When the battery light starts flashing and you need to change the battery in order to save your work, follow the steps below.

1. Unplug everything from the system. (For example, unplug the VGA cable.)
2. Place the system in standby mode.
3. Take the battery off.
4. Attach a new battery.
5. Return the system to operating mode.

Attach the new battery within 5 minutes or else any unsaved work will be lost. The 5 minutes begin when you first take off the battery to when you attach the new battery.

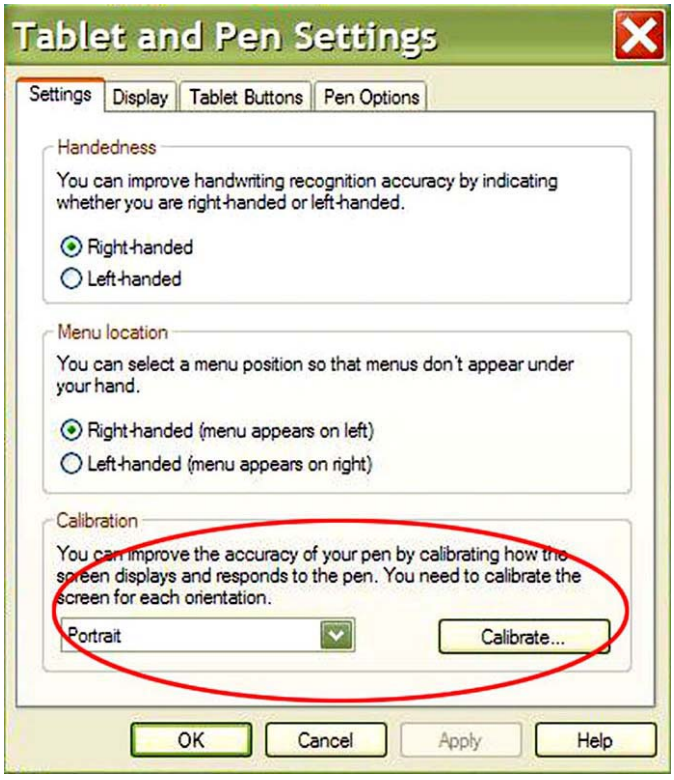
The 5 minutes allotted for the process means no device attached to the system such as no PCMCIA or no VGA cable.

Calibrating Screen for Stylus Accuracy

You can make your Tablet PC screen respond better to your stylus. You need to select the type of screen orientation you wish to calibrate: Landscape or portrait.

Go to **Start > Control Panel > Tablet and Pen Settings > Settings**.

1. Select the appropriate screen orientation to calibrate: Landscape or portrait.
2. Now, you are ready to calibrate the screen. Tap the **Calibrate…** box.



Adjusting Screen Brightness

You can adjust the screen brightness of your PC to fit your needs. You've the choice of adjusting the screen brightness for 2 system settings as described below.

- When tablet is powered by batteries
- When AC Adapter is plugged in

There are 2 methods to adjust the screen brightness.

① You can make the adjustment at **Start > Control Panel > Tablet and Pen Settings > Display**.

Or you can simply double-tap (single-tap) on the **Change Tablet and Pen Settings** in the system tray to open up the **Tablet and Pen Settings** (**Properties**) window.

Selecting Screen Orientation

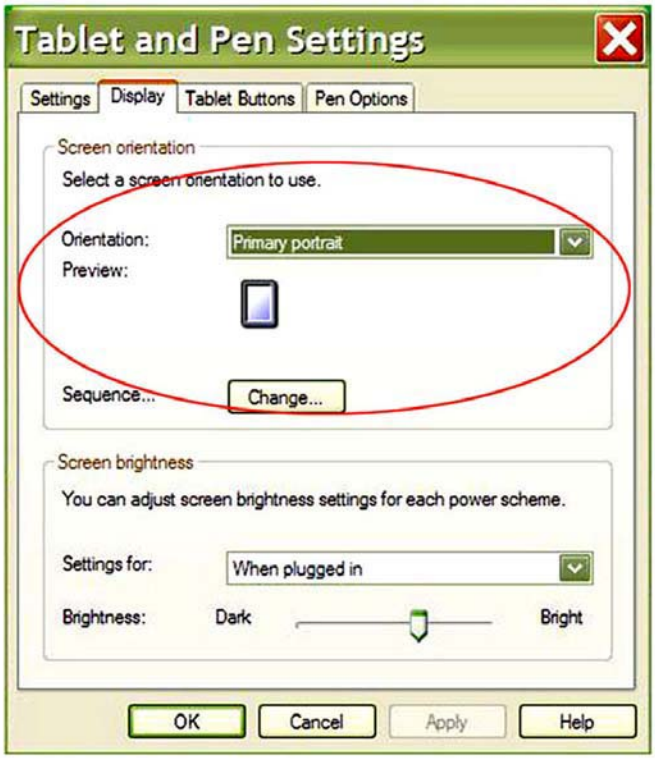
There are 4 different screen orientations. They are:

A PICTURE OF EACH SCREEN ORIENTATION, TOTAL 4 PICTURES

Landscape views refer to horizontally displayed screen; while portrait views indicate vertically displayed screen.

You have 2 ways to select your screen orientation.

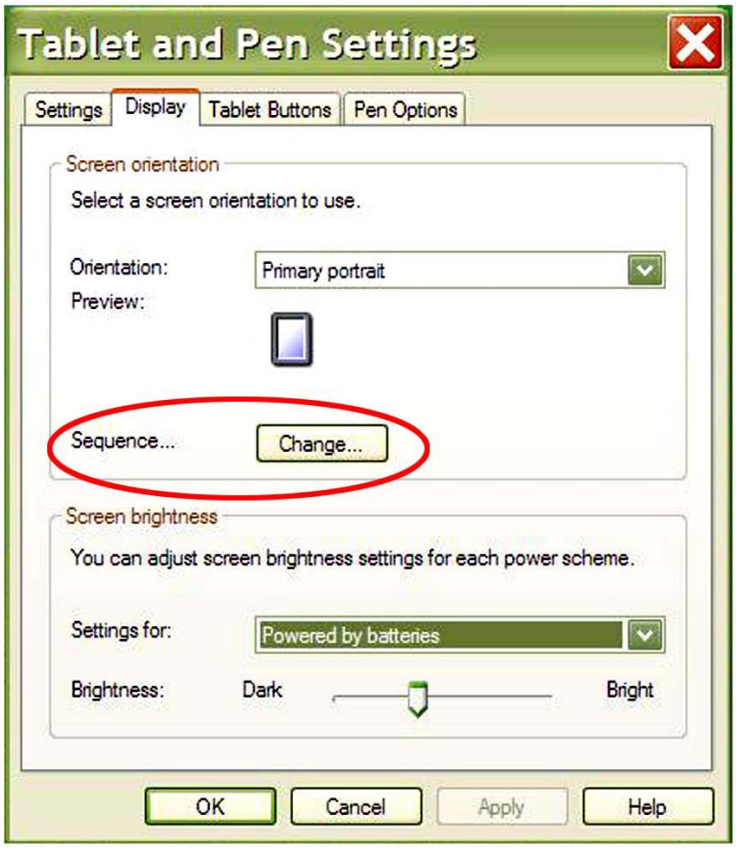
① Go to **Start > Control Panel > Tablet and Pen Settings > Display**



② You use your stylus to press the screen rotational button to alter you screen display.

The default screen orientation sequence rotates in the clockwise order starting at Primary Landscape.

You can also set the sequence in which screen orientations change from one display to another in **Tablet and Pen Settings > Display > Sequence…Change**.



The sequence occurs when you press the screen rotational button with your stylus OR when you select **Change Screen Orientation** from the **Change Tablet and Pen Settings**

Changing the Time

Projecting Materials on Screen

During presentations or group meetings, you may need to project materials on a bigger screen for everyone to see easily. How do you do it? You can make the changes through either the **Control Panel** or **Intel(R) Graphics Technology** in the system tray.

The system automatically sets the screen to display on **Notebook**, the PC screen itself. The available options are:

- Monitor
- Notebook
- Intel(R) Dual Display Clone
- Extended Desktop

Selecting **Monitor** means projecting materials on another screen, and the actual Tablet PC screen turns blank. **Intel(R) Dual Display Clone** option allows materials to project on both the Tablet PC screen and another screen. **Extended Desktop** option transfers Tablet PC desktop activities on to another computer screen while letting you access the tablet and work from another computer.

Adjusting Audio Properties

Chapter 4 Defining the Tablet PC Function Keys

Introducing PC Button Functions

You have access to thirteen buttons all with different functions to make your computing life easier than ever. Some of these buttons even have secondary functions to save you the time you would take to look for them. You can even define four of these thirteen buttons to do additional tasks to meet your special needs. Working with the convenience of paper and digital pen together with the power of a PC is within your reach. Just read on!

* **Note!**
The directional control and enter keys have a total count of five buttons.

Each button has a primary function, meaning a default function. Some buttons have an additional function. The additional function is called secondary function. Of the total thirteen buttons, you can assign your own secondary function to four of them.

Before you start operating the PC, you need to understand the two types of functions.
One function type is primary function, also the default function, where you cannot modify its action. Instinctively, when you see the physical buttons, their icons represent their primary functions.

The other type is the secondary function. Within the secondary functions, you need to distinguish between user programmable keys and the already assigned secondary function keys.

Both types of functions exist in the logon process and in the setting when desktop icons appear on your screen. You must make the distinction between these two settings, because there is a variance in task performance among primary and secondary functions depending on the system setting.

How to Activate Secondary Button Functions?

You activate primary functions by pressing the buttons once. To launch the secondary

functions, you need to press the function **Fn** key first before pressing the button keys that have secondary functions.

Button Functions in the Logon Process

What is the Logon Process? It occurs when you first turn on the computer, before the desktop icons and the taskbar appear on the monitor. If you set password security, Login screen appears during this process asking for you to sign in for the security check.

SHOW PASSWORD PICTURE

What kind of functions? We refer to the existing functions during the Logon process as Logon Functions. In the Logon process, you can only access five primary functions and four secondary functions. Many of the functions available when the desktop icons appear on the monitor are not activated during the Logon process.

What are the Primary Functions? They are listed below along with a brief explanation for each button. Remember you only need to press these buttons once to activate them. The buttons are described in the clockwise order starting at the Escape key.

Button Icons	Button Function Explanations
	Escape Key cancels the current operation.
	Enter Key is the same as an enter key on a keyboard.
	Down Arrow Key. Despite its icon, this button functions as a Tab key.
	Up Arrow Key. Its real function is the same as a Tab key but in the opposite direction.
	Windows Security Key launches the Windows Task Manager. It performs the same task as Ctrl + Alt +Del.

What are the secondary functions? Activating secondary functions requires you to press the function **Fn** key first and then press the appropriate button key.

Button Icons	Button Function Explanations

	Escape Key works as the backspace key.
	Enter Key functions as the spacebar.
	Up Arrow Key. As the icon indicates, it moves things upward.
	Down Arrow Key functions as the down arrow key on a keyboard.

Button Functions When Desktop Icons Appear

When do these functions occur? When the Logon process ends, the appearing of the desktop icons indicates the start of another set of functions differ from the ones described above as Logon Functions.

What type of functions? Buttons during this stage have more functions, and we refer to them as the Main Functions. Main Functions include both primary and secondary functions.

What are the primary functions? All buttons have primary functions, which are also known as default functions. The buttons are described in the clockwise order starting from the Power key.

Button Icons	Button Function Explanations
	Power Key turns on/off the PC.
	Screen Rotational Key changes the screen display in four different directions.
	Escape Key cancels the current operation.
Fn	**Function Key** initiates the secondary functions.
	Up Arrow Key functions as the up cursor.
	Down Arrow Key functions as the down cursor.
	Right Arrow Key functions as the right cursor.
	Left Arrow Key functions as the left cursor.

	Enter Key functions as the enter key.
	Tablet PC Input Panel launches the Input Panel.
	Journal Key launches the Windows Journal application.
	Start Menu Key activates the Start Menu.
	Windows Security Key initiates the Windows Task Manager. It performs the same task as Ctrl + Alt +Del.

* **Note!**
You can also set the Power Button to put the PC in standby mode. See the section "**Putting the PC in Standby Mode**" in Chapter 3.

* **Note!**
The direction control button automatically changes its functions as the screen orientation rotates in four different views. For example, the arrow directions change when the screen rotates from Primary Landscape to Secondary Landscape. The same applies to when landscape views change to portrait views.

What are the secondary functions? All but three buttons either already have secondary functions programmed in them or you can assign a secondary function to them. These three keys below have only primary functions:

- Power Key
- Function Key
- Windows Security Key

Button Icons	Button Function Explanations
	Screen Rotational Key. A user-definable Key
	Escape Key functions as Alt + Escape that send your current window to the background.
	Up Arrow Key has the Page Up function.
	Down Arrow Key has the Page Down function.
	Right Arrow Key has the Tab function.
	Left Arrow Key. Shift + Tab function is the same as tab but in the opposite direction.
	Enter Key has the Alt + Tab function which allows you to switch between the programs you have running.
	Journal Key. A user-definable button.

	Tablet PC Input Panel Key. A user-definable button.
	Start Menu Key. A user-definable button.

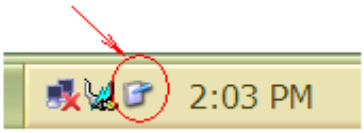
* **Note!**
User-definable button means you can assign a particular secondary function to it.

How to Configure Buttons for Secondary Functions?

You can only configure buttons in the system setting when the start task bar appears on the screen. You have one method to configure the four user-programmable buttons. These four buttons do not have secondary functions, only primary functions. By following the method below, you can assign a secondary action to each of these four buttons.

* **Note!**
Remember, you activate a secondary function by pressing the **Fn** key first and then the particular secondary function key.

1. Go to **Start > Control Panel > Tablet and Pen Settings > Tablet Buttons**
   OR
   Double-tap on the **Change Tablet and Pen Settings** icon in the system tray, and the Tablet Buttons menu also appears.



2. Of the four buttons available, select the appropriate one you wish to add a secondary function. Under Tablet Button, you should see the four choices labeled as:

   - Fn + Hot1 Button
   - Fn + Journal Button
   - Fn + Input Panel Button
   - Fn + Rotate Button

3. Tap on the **Change…** option
4. Verify the accuracy of your button selection by checking the button name on the first line

of the window **Change Tablet Button Actions**

5. Select the desired secondary function from the **Action** scroll bar of 54 different choices.
6. Confirm your selection by tapping **OK**.

* **Note!**
Hot1 Button stands for the Start Menu button.

* **Note!**
Of the 54 possible secondary functions you can select, Application 1 launches My Computer and Application 2 launches the Calculator.

Chapter 5 Protecting the Tablet PC

Cleaning the Screen

You use the soft cleaning cloth for removing dusts and fingerprints on your Tablet PC screen.

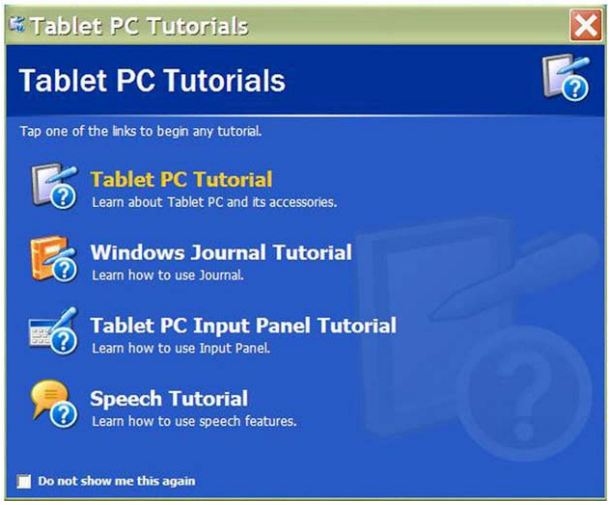
Chapter 6 Troubleshooting

Useful Tutorials

For help with using the Microsoft Windows XP Tablet PC Edition, you can access its tutorials with your stylus designed especially to help you learn about the new features.

See below for 2 methods of finding help to operate the Tablet PC software.

①



This window appears on screen when system first turns on.

It offers 4 types of tutorials to help you get familiarize with the system's special features.

②

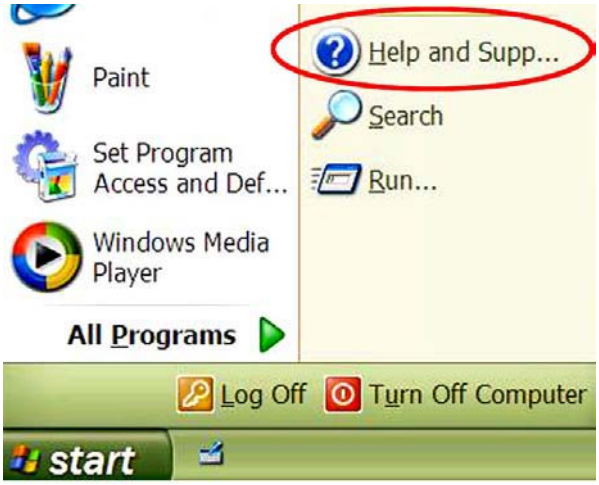
Go to **Start > All Programs**.

Select **Get Going with Tablet PC**.

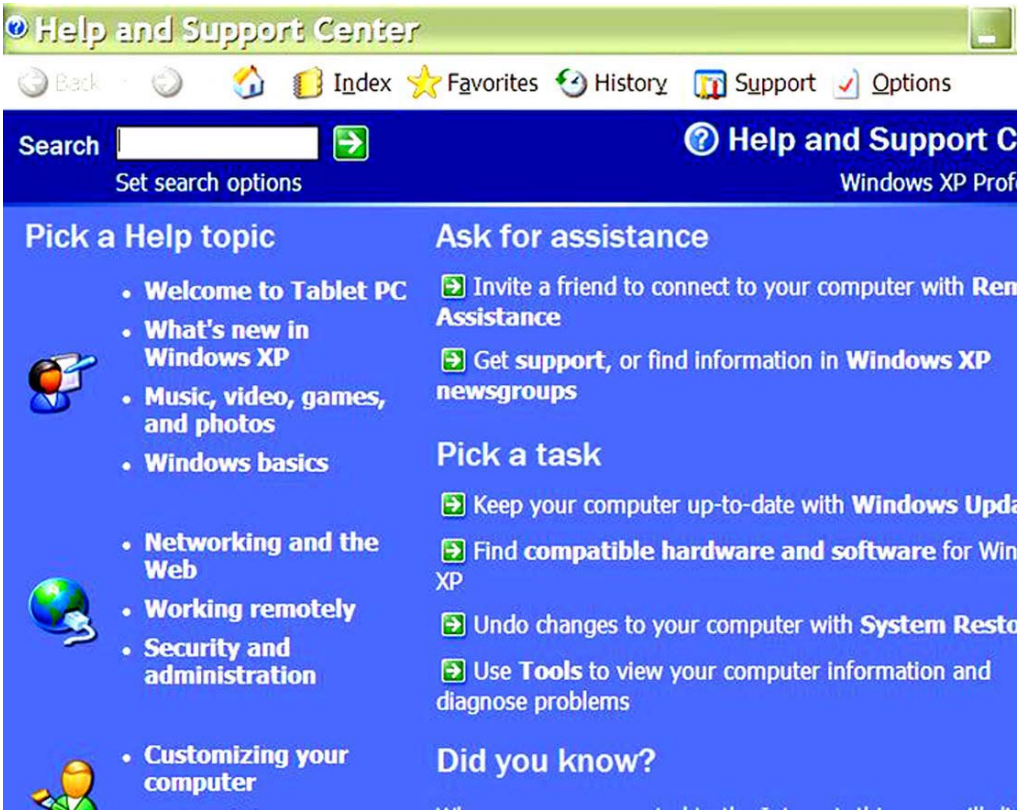
You will learn the basics to start using the Tablet PC here.

Help

You can 's to your questions from the Help and Support Center.



Go to **Start > Help and Support Center**



Before Contacting COMPANY

Troubleshoot Your Tablet PC

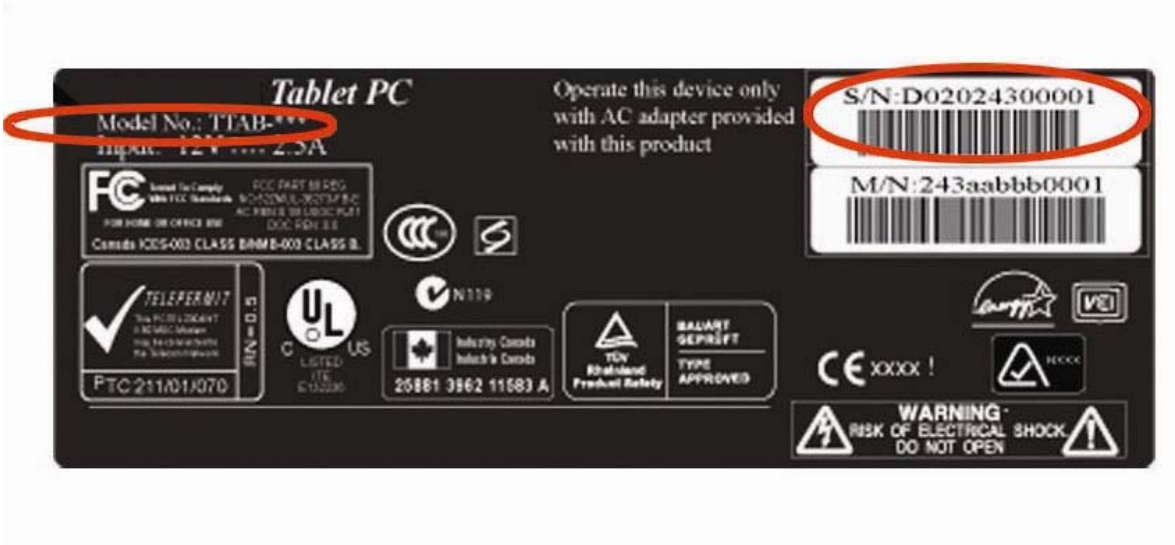
Before you contact **COMPANY Technical Support** regarding any technical issues, please first conduct the following initial checks:

- ☐ Remove all external devices
- ☐ Check the green light indicator on the AC Adapter to see if it's lit
- ☐ Make sure all power cords are completely plugged into the power outlet and the PC
- ☐ Check the power light indicator to see if it's on
- ☐ Tighten any loose cable connections
- ☐ Contact the product's manufacturer first for problems related to USB CD-ROM drive, scanner, printer, or other external devices.
- ☐ Contact the software vendor first for software-related questions.
- ☐ Load the Default Setting from the BIOS Setup after any BIOS update

Before Calling for Help

If your technical problem(s) still persist, you can contact **COMPANY Technical Support**. However, you need to have these 3 items ready first. They are:

- ♦ Product Model & Serial Numbers
- ♦ BIOS Revision (Rev)
- ♦ EC Revision (Rev)



You can find BIOS Rev and EC Rev information in the Setting Panel.

To locate the Setting Panel, follow the steps below.

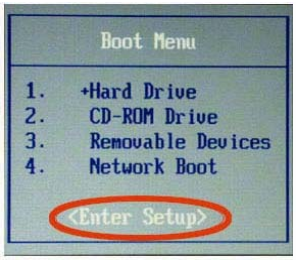
1. Turn on the Tablet PC.

PICTURE OF PC ILLUSTRATING STYLUS PRESSING THE POWER BUTTON

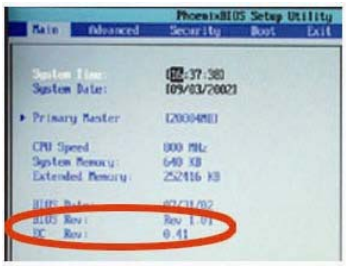
2. Press the Esc key ⊗ when COMPANY NAME logo appears on the screen.

COMPANY LOGO

3. Boot Menu appears on the screen.
   Use the arrow key to select the Setup Menu.



4. Locate and record BIOS & EC Rev information.



Contact COMPANY

COMPANY CONTACT INFORMATION

Appendix

Safety Notices

Battery Safety Notices

- The battery pack is intended for use only with this device.
- Do not disassemble the pack.
- Do not dispose of the battery pack in fire or water.
- To avoid risk of fire, burns, or damage to your battery pack, do not allow a metal object to touch the battery contacts.
- Handle a damaged or leaking battery with extreme care. If you come in contact with the electrolyte, wash the exposed area with soap and water. If it gets in contact with the eye, flush the eye with water for 15 minutes and seek medical attention.
- Do not charge the battery pack if the ambient temperature exceeds 113 degrees Fahrenheit (45 degrees Celsius).
- To obtain a replacement battery, contact your local dealer.
- Do not expose the battery pack to high storage temperatures (above 140 degrees Fahrenheit, 60 degrees Celsius).
- When discarding a battery pack, contact your local waste disposal provider regarding local restrictions on the disposal or recycling of batteries.

Lithium Battery Warning

- This computer contains a lithium battery to power the clock and calendar circuitry.
- There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type battery as recommended by the manufacturer. Discard used batteries according to the manufacturer’s instructions or local laws.

Limited Warranty

Regulatory Compliance

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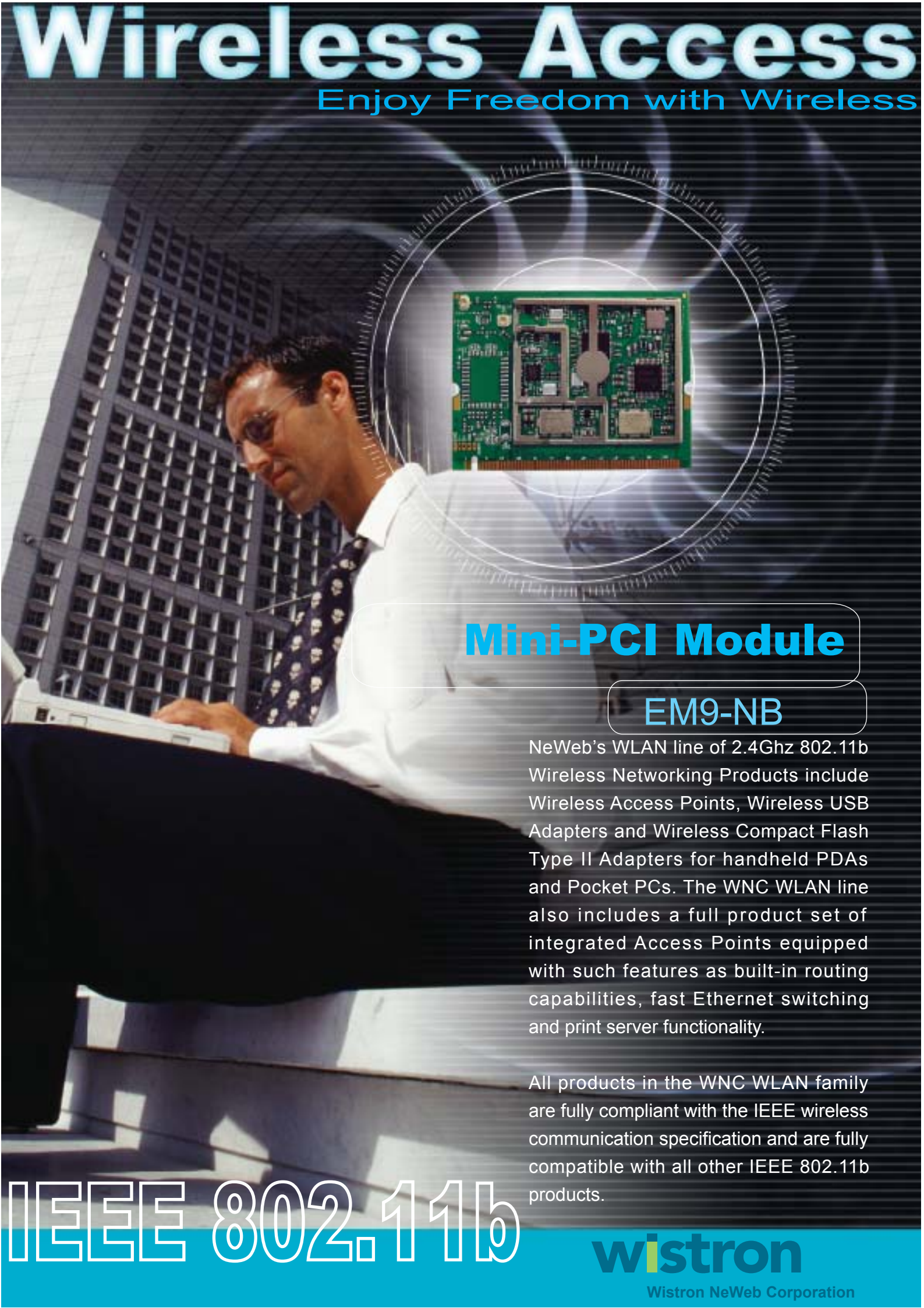
Wireless Access

Enjoy Freedom with Wireless



Mini-PCI Module

EM9-NB

NeWeb's WLAN line of 2.4Ghz 802.11b Wireless Networking Products include Wireless Access Points, Wireless USB Adapters and Wireless Compact Flash Type II Adapters for handheld PDAs and Pocket PCs. The WNC WLAN line also includes a full product set of integrated Access Points equipped with such features as built-in routing capabilities, fast Ethernet switching and print server functionality.

All products in the WNC WLAN family are fully compliant with the IEEE wireless communication specification and are fully compatible with all other IEEE 802.11b products.

IEEE 802.11b

wistron

Wistron NeWeb Corporation

Mini-PCI Module

EM9-NB

- The Trendy Mobile Networking Solution
- Easy Integration into OEM Devices
- Made-to-Order Embedded Antenna Design Service
- Integration Support
- Software Compatibility
- Security Encryption

Specifications

Product name	IEEE 802.11b mini-PCI wireless LAN
Frequency range	2.4 ~ 2.4835GHz
Modulation technique	DSSS (Direct Sequence Spread Spectrum)
Host interface	Mini-PCI spec. V1.0
Form factor	Mini-PCI type IIIB
Channels support	- US/Canada: 11 (1 ~ 11) - Major European country: 13 (1 ~ 13) - France: 4 (10 ~ 13) - Japan: 14
Operation voltage	3.3V
Power consumption	- Continucus transmission mode: 360 mA - Standby mode: 220 mA - Power saving mode: 110 mA
Output power	12.22dBm
Operation range	- Indoor: 37 meter @ 11Mbps - Outdoor: 122 meter @ 11Mbps
Operation system	Windows 98SE, ME, 2K, XP
Dimension	44.6mm (W) * 59.8mm(L) * 4.1mm (H)
Network protocol	Support TCP/IP, NetBEUI, IPX/SPX
Security	64-bit WEP encryption, optional 128-bit RC4
Transfer data rate	11Mbps, 5.5Mbps, 2Mbps, 1Mbps , auto-rate
Operation temperature range	0℃ ~ 70℃
Storage temperature range	-20℃ ~ 80℃
Warranty	1 year standard warranty, 3 years optional
Logo	Wi-fi compliant
EMC certificate	- FCC part 15 (USA) - IC RSS210 (Canada) - ETSI 300 328, ETSI300 826 (Europe) - TELEC (Japan)
Media access protocol	CSMA/CA with ACK
Architecture	32-bit MAC
Antenna	Internal diversity with connectors

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Address: No.10-1, Li-hsin Road. I, Science-based Industrial Park, Hsinchu 300, Taiwan, R.O.C.
E-mail: wnc@wneweb.com.tw **http://**www.wneweb.com **Phone:** 886-3-6667799 **Fax:** 886-3-6667711
Wistron NeWeb Corporation

WISTRON / Mini PCI Module / EM9-NB

IEE 802.11b Users Guide

Regulatory Information

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: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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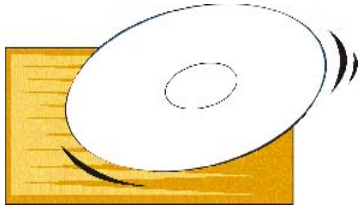
1. Quick Software Installation Guide

If you are familiar with computer networking, this Quick Start Guide is the fastest way for you to establish your wireless network.

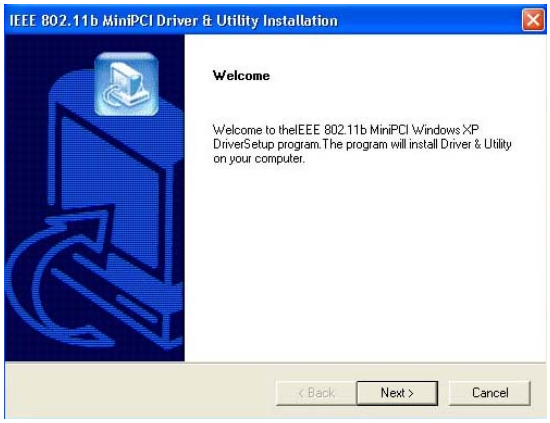
If you need more information than this Quick Start Guide can provide, the following chapters will guide you through the necessary steps. The quick installation guide is based on Windows XP.

1.



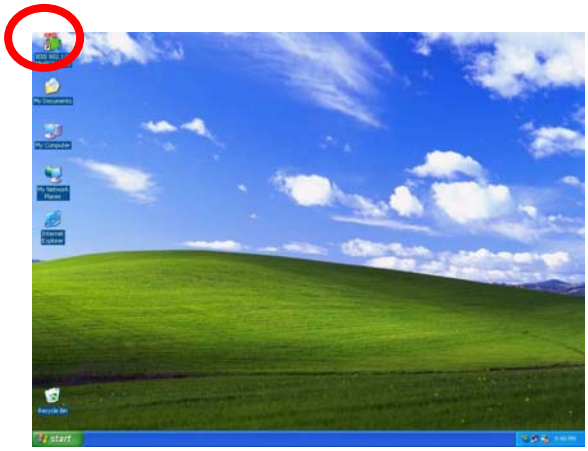
Insert the installation software CD into the computer.

2.



Follow the displayed instructions to complete installation.

3.



WLAN icon displays on the desktop after the installation.

4.

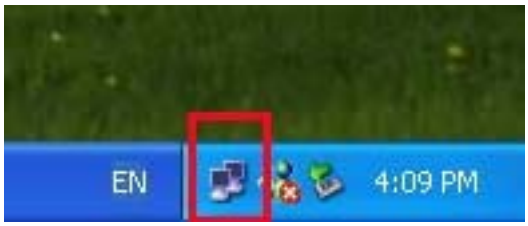
Click Start>Settings>Network Connections, and double click the Wireless Network Connection of "802.11b Wireless LAN PCI Card".

From the available networks list, choose one network and enter the network key (if necessary). Click "Connect".

5.

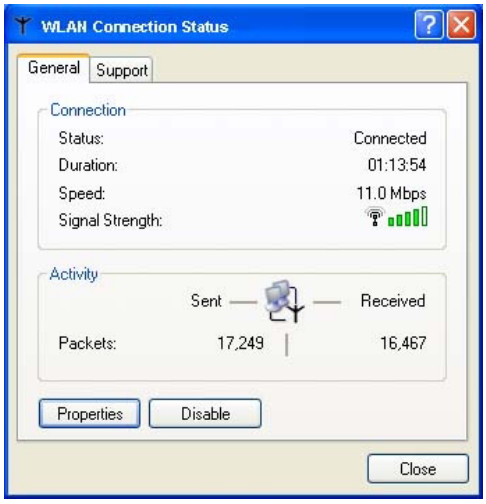
From Windows System Tray, a dialog box pops up which shows you the Network name and the Signal Strength.

6.



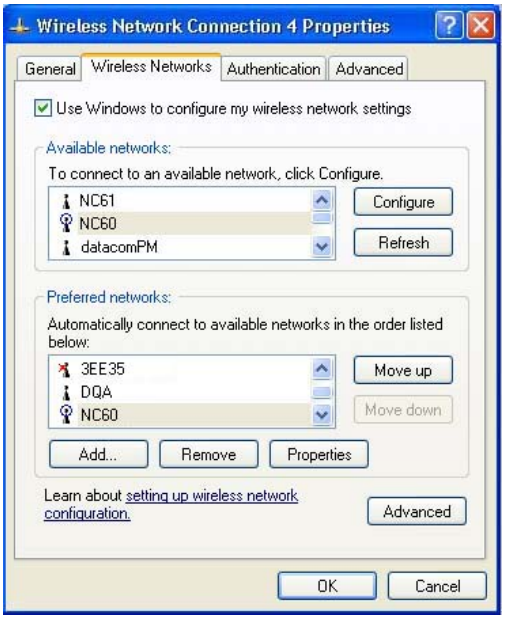
Double click on "Wireless Network Connection" icon from the Windows System Tray.

7.



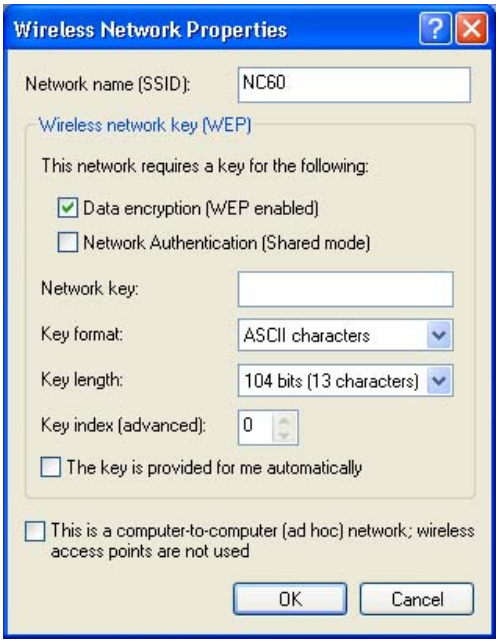
Click "Properties".

8.



Select “Wireless Networks” tab.

9.



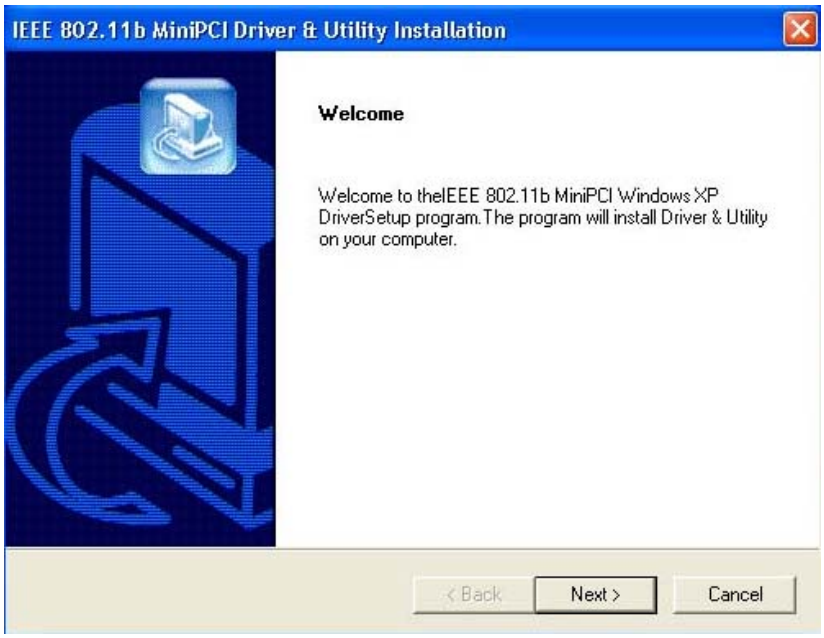
Click “Configure” button to view and edit the WEP settings.

You may click “Learn about setting up wireless network configuration” on Wireless Networks tab to learn more about wireless network configuration.

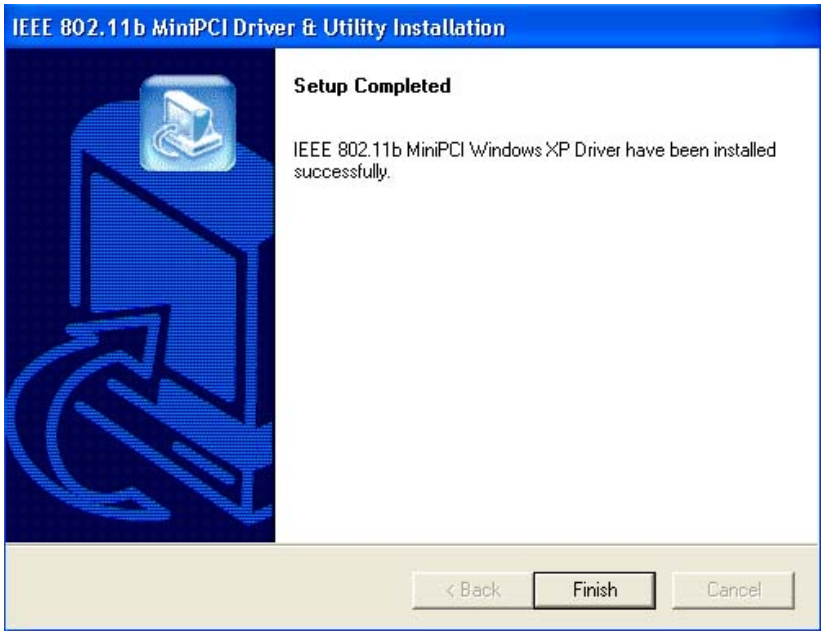
2. Step-by-Step Software Installation Guide

2.1 Installation Under Windows XP

1. Insert the IEEE802.11b WLAN installation CD into your CD-ROM drive. The setup program will then automatically start.
2. **Click ”Next”.**

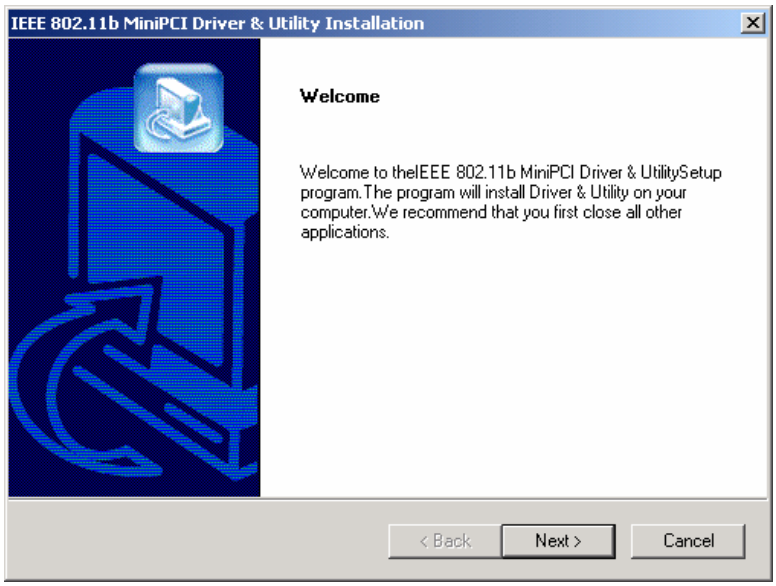


3. **Click “Finish”**.

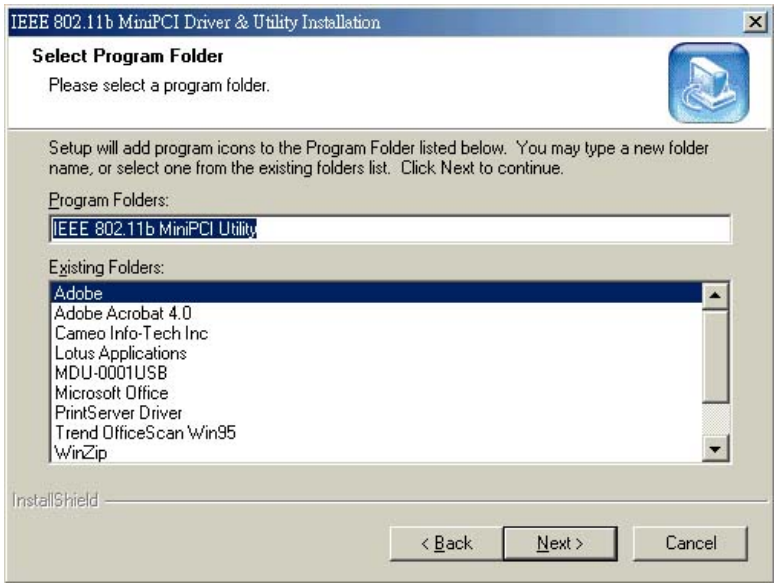


2.2 Installation Under Windows 98SE/2000/ME

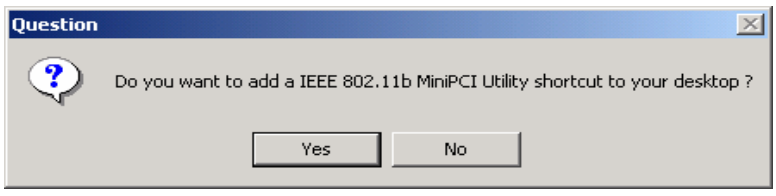
1. Insert the IEEE802.11b WLAN installation CD into your CD-ROM drive. The setup program will then automatically start.
2. **Click ”Next”.**



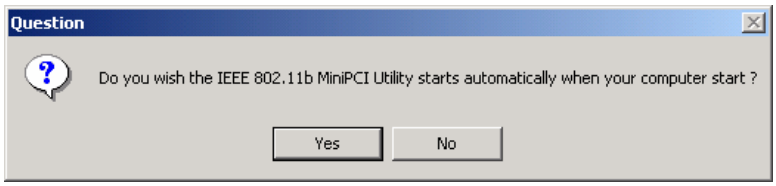
3. **Click ”Next”.**



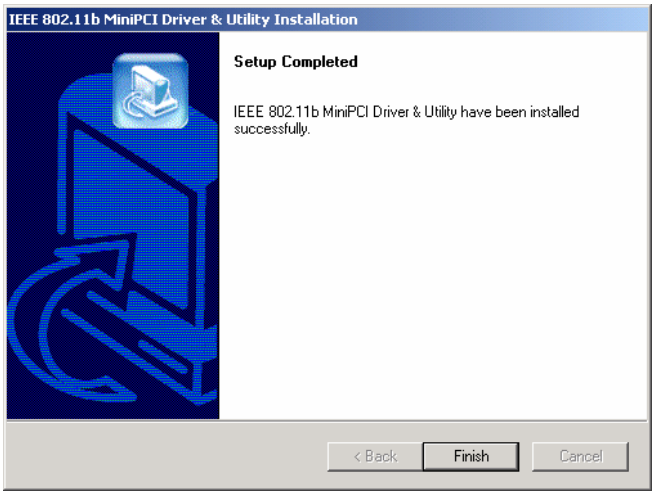
4. **Click “Yes”** to create a shortcut.



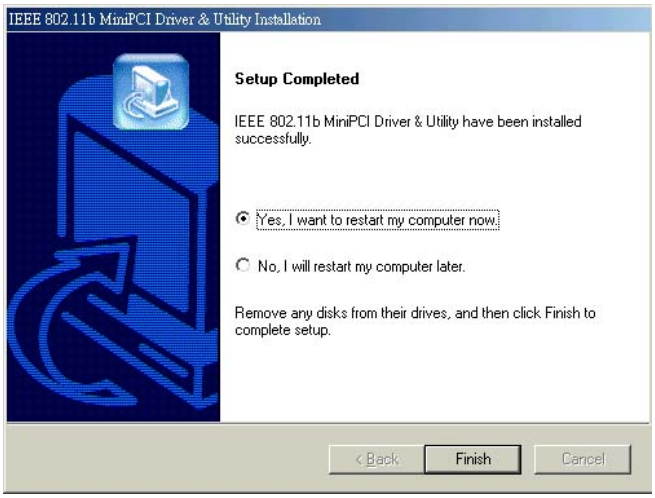
5. **Click "Yes"** to auto start the IEEE802.11b MiniPCI Utility every time the computer starts.



6. The installation is complete. **Click "Finish"**.



Restart your computer if necessary.



7. From the Windows System Tray, you can find a connection status icon. Three different colors indicate different connection status.

Connected (Green)

Low quality (Yellow)

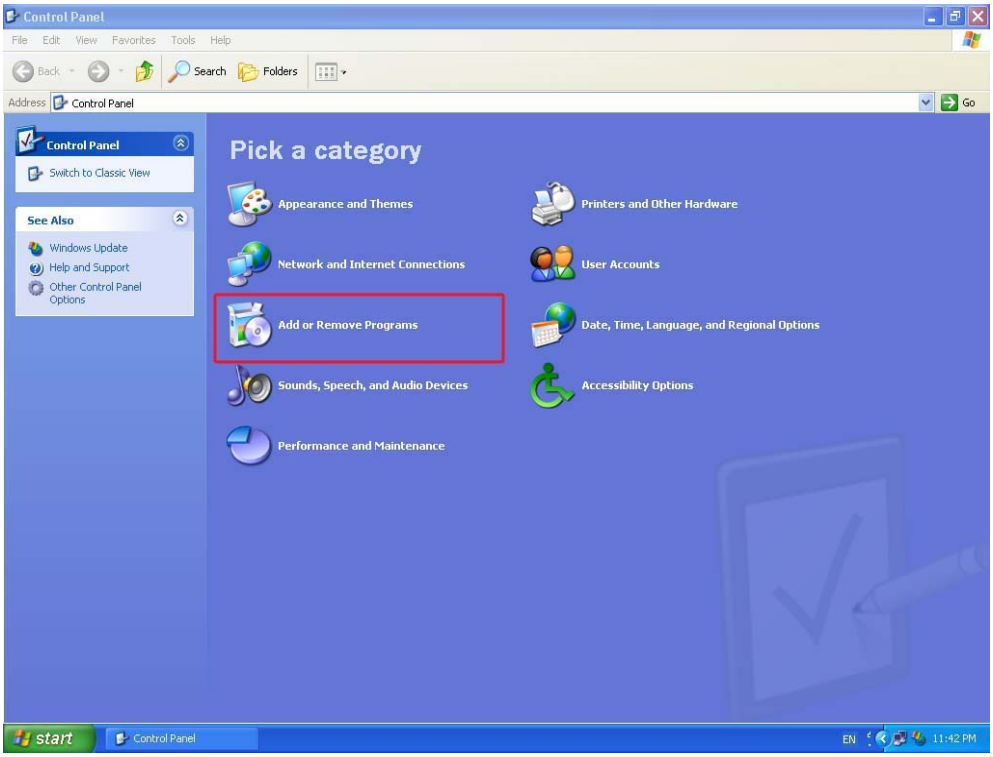
Disconnected (Red)

3. Software Uninstallation Guide

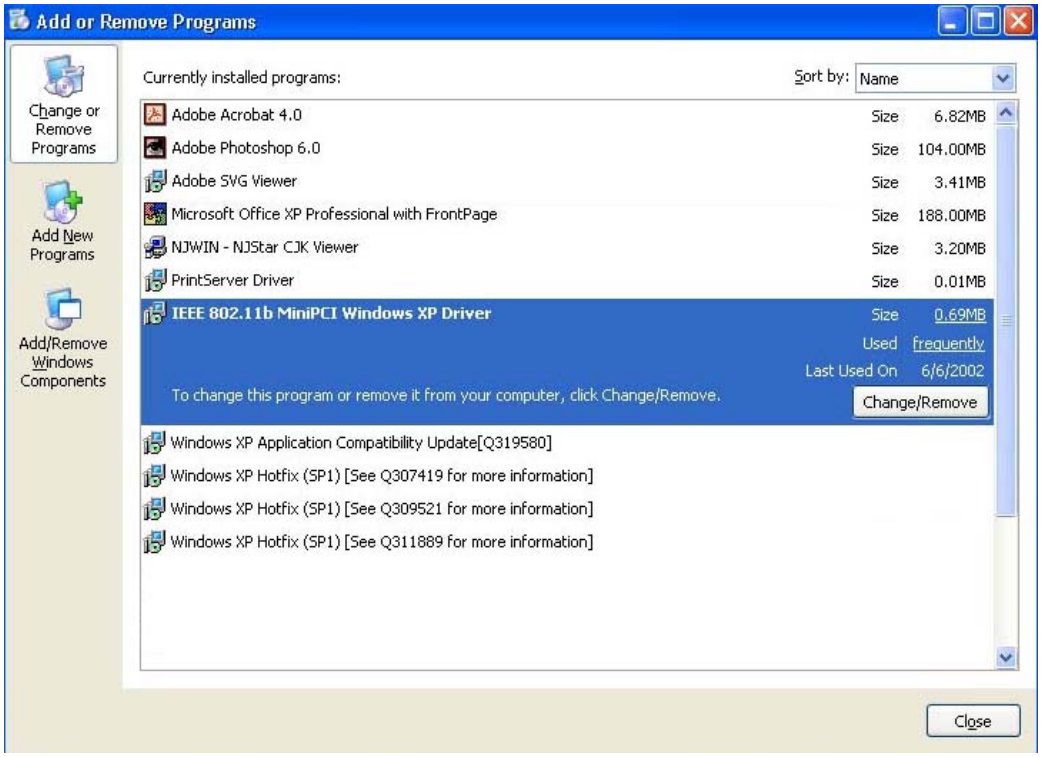
3.1 Uninstallation Under Windows XP

1. Close the IEEE802.11b MiniPCI Utility.
2. **Click <u>Start >Settings>Control Panel.</u>**

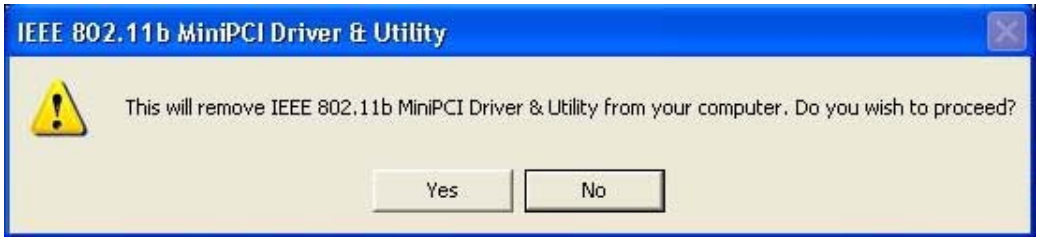
3. **Select "Add or Remove Programs".**



4. **Select "IEEE802.11b miniPCI Windows XP Driver". Click "Change/Remove".**



5. **Click "Yes".**

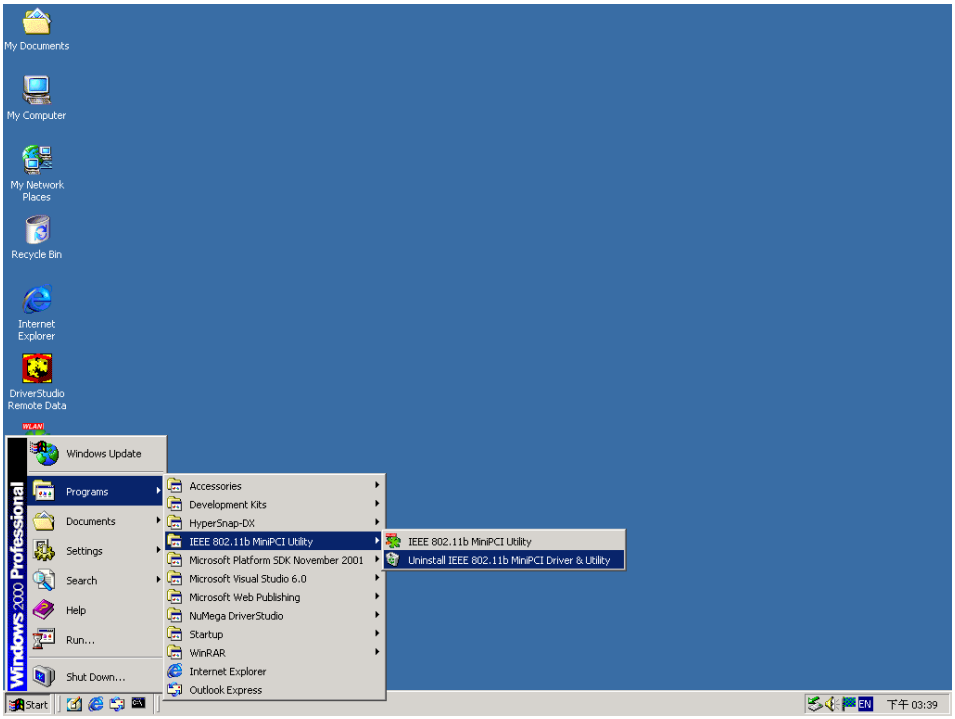


6. **Click "OK".**

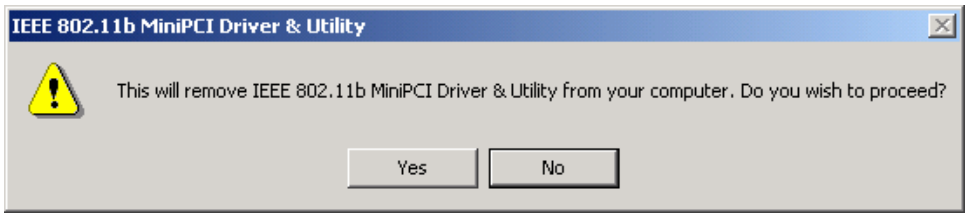
3.2 Uninstallation Under Windows 98SE/2000/ME

1. Close the IEEE802.11b MiniPCI Utility.

2. **Click <u>Start > Programs > IEEE802.11bMiniPCI Utility>Uninstall IEEE802.11b MiniPCI Driver & Utility.</u>**



3. **Click "Yes".**



4. Configuration

4.1 Configuration Under Windows XP

1. Click “Start>Settings>Network Connections, and double click the Wireless Network Connection of “802.11b Wireless LAN PCI Card”.
2. From the available networks list, choose one network and enter the network key (if necessary). Click “Connect”.
3. From Windows System Tray, a dialog box pops up which shows you the Network name and the Signal Strength.
4. **Double click on “Wireless Network Connection” icon** from the Windows System Tray.
5. Click “Properties”.
6. View and edit the settings from each tab: General, Wireless Networks, Authentication and Advanced.
7. On Wireless Networks tab, click “Configure” button to view and edit the WEP settings.
8. You may click “Learn about setting up wireless network configuration” on Wireless Networks tab to learn more about wireless network configuration.

Contents are as follows:

To set up automatic wireless network configuration

1. Open Network Connections.
2. Right-click **Wireless Network Connection**, and then click **Properties**.
3. On the **Wireless Networks** tab, do one of the following:
   - To enable automatic wireless network configuration, select the **Use Windows to configure my wireless network settings** check box. This check box is selected by default. For information about what happens when you enable automatic wireless network configuration, see Notes.
   - To disable automatic wireless network configuration, clear the **Use Windows to configure my wireless network settings** check box.
4. To connect to an existing wireless network, do one of the following:

   Access point (infrastructure)

   - To connect to an existing access point (infrastructure) network, under **Available networks**, click the network name, and then click **Configure**.

In **Wireless Network Properties**, specify the wireless network key (Wired Equivalent Privacy) settings, or, if the network key is automatically provided for you (for example, the key is stored on the wireless network adapter given to you by your administrator), select the **The key is provided for me automatically** check box. If you are unsure about whether a network key is needed or which settings you need to enter, contact your network administrator or the wireless network adapter manufacturer.

Important

- If a network does not broadcast its network name, it will not appear under **Available networks**. To connect to an access point (infrastructure) network that you know is available but that does not appear under **Available networks**, under **Preferred networks**, click **Add**. In **Wireless Network Properties**, specify the network name (Service Set Identifier) and, if needed, the wireless network key settings.

Computer-to-computer (ad hoc)

- To connect to an existing computer-to-computer (ad hoc) network, under **Available networks**, click the network name, and then click **Configure**.

  In **Wireless Network Properties**, specify the wireless network key (Wired Equivalent Privacy) settings, or, if the network key is automatically provided for you (for example, the key is stored on the wireless network adapter given to you by your administrator), select the **The key is provided for me automatically** check box. If you are unsure about whether a network key is needed or which settings you need to enter, contact your network administrator or the wireless network adapter manufacturer.

  If you want to connect to a computer-to-computer (ad hoc) network and both computer-to-computer and access point (infrastructure) networks are within range of your computer, click **Advanced**, and then click **Computer-to-computer (ad hoc) networks only**.

5. To configure a new wireless network connection, click **Add**, and then do the following:
   - In **Wireless Network Properties**, specify the network name (Service Set Identifier) and, if needed, the wireless network key settings.
   - If the network connection that you are configuring is to a computer-to-computer (ad hoc) network, select the **This is a computer-to-computer (ad hoc) network; wireless access points are not used** check box.
6. To change the order in which connection attempts to preferred networks are made, under **Preferred networks**, click the wireless network that you want to move to a new position on the list, and then click **Move up** or **Move down**.

7. To change the wireless network connection settings for a network that is listed in **Preferred networks**, click the wireless network for which you want to change settings, click **Properties**, and then change the settings as needed.
8. To remove a wireless network from the list of preferred networks, under **Preferred networks**, click the wireless network that you want to remove, and then click **Remove**.
9. To update the list of available networks that are within range of your computer, click **Refresh**.
10. To automatically connect to available networks that do not appear in the **Preferred networks** list, click **Advanced**, and then select the **Automatically connect to non-preferred networks** check box.

Notes

- To open Network Connections, click **Start**, point to **Settings**, click **Control Panel**, and then double-click **Network Connections**.
- When you enable automatic wireless network configuration, you can connect to an existing wireless network, change wireless network connection settings, configure a new wireless network connection, and specify preferred wireless networks. You will be notified when new wireless networks are available. After you select a wireless network, your wireless network adapter will be automatically configured to match the settings of that network, and a network connection attempt will be made. For more information, see Related Topics.
- To configure settings on the **Wireless Networks** tab, you must be logged on as an administrator, and you must use a wireless network adapter that supports the Wireless Zero Configuration service. If you are unsure whether your wireless network adapter supports the Wireless Zero Configuration service, contact your network administrator or the wireless network adapter manufacturer. For more information about automatic wireless network configuration, see Related Topics.
- If you are using third-party wireless networking software, clear the **Use Windows to configure my wireless network settings** check box.
- If you are unable to connect to an existing wireless network and the name of the network that you want to connect to appears under the **Preferred networks** list, click the preferred network name, and then click **Properties**. In **Wireless Network Properties**, review the settings to ensure that they are correct. If you are unsure whether the settings are correct, contact your network administrator or the wireless network adapter manufacturer.
- If the **Preferred networks** list includes both access point (infrastructure) and computer-to-computer (ad hoc) networks, you cannot move a computer-to-computer

network to a position in the list that is higher than the position of an access point network.

- To provide enhanced security for 802.11 wireless networks and for wired Ethernet networks, IEEE 802.1x authentication is enabled by default. For more information about how to set up 802.1x authentication, see Related Topics.

Related Topics

4.2 Configuration Under Windows 98SE/2000/ME

1. Click the connection status in Windows System Tray. Select “Site Survey” tab.
2. From the available network list, you can check the Signal Strength and then decide which network to join.
3. Select “Setting” tab. Enter the SSID and then choose the Network Type. Choose a channel if 802.11 AdHoc mode is selected.
4. Click “Advance” button to set Transmission Rate, Power Saving and WEP. Click “Apply”.
5. Click “Apply” to implement the modified settings.

Details of each setting are as follows:

- **SSID** is the group name that will be shared by every member of your wireless network .You will only be able to connect with an Access Point (AP), which has the same SSID. Note that the SSID will be case sensitivity.

- **Channel:** If the Infrastructure Mode is selected, this parameter will not be active. **Channel** shows radio channel numbers used for networking. Channel number must be the same between stations so computers can communicate in the same local LAN.

Country	Channel Range
USA/Canada	11 (1~11)
Most of Europe/Australia	13 (1~13)
France	4 (10~13)
Japan	13 (1~13) or 14th

- **Transmission Rate**

  Four options are available:

  A. Fully Auto (Default)
  B. Fixed 11Mbps
  C. Fixed 5.5Mbps
  D. Auto 1 or 2 Mbps

  If you enable the “Power Saving” mode, the PCI module can work with low power consumption but the throughput may be slow down.

◆ **Encryption Function**

You may enhance the security of your network by enabling the “Encryption” function. The WEP Required Mode enables you to define the encryption keys.

! Caution:

Using “Encryption” function requires all computers of the network to enable the “Encryption” function. The WEP key needs to be the same for all IEEE802.11b stations.

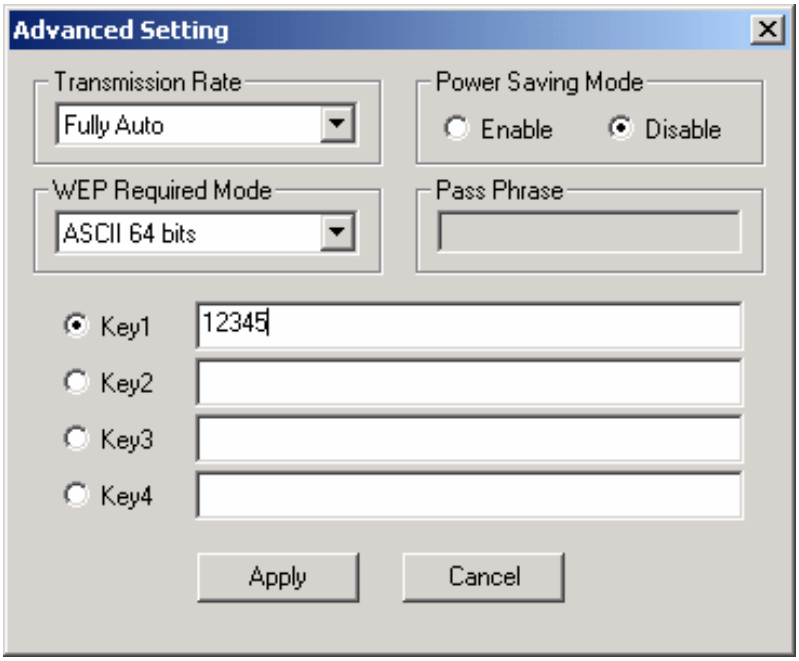
Follow the steps below to set your WEP Required Mode:

(1) Select one mode by clicking the pull-down button in the WEP Required Mode frame. Set the WEP key in your PCI module by selecting one of the following modes:
   A. ASCII 64 bits
   B. ASCII 128 bits
   C. Hex 64 bits
   D. Hex 128 bits
   E. Auto 64 bits
   F. Auto 128 bits

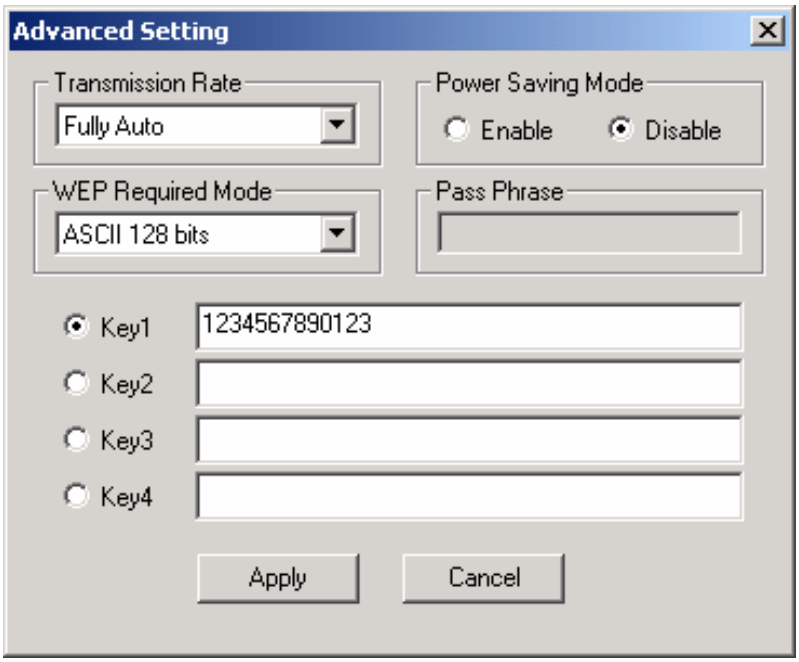
(2) If you select “Auto 64 bits” or “Auto 128 bits” mode, type any letter or phrase in the “Pass Phrase” field (i.e. Pass or Test…) and the WEP key will be automatically generated in the Key field.

If you enter out-of range characters for the WEP key, the Utility will prompt a warning message to ask for the correct characters. Without enough hexadecimal value or ASCII character in the “Key” field, the “Apply” button will not be enabled.

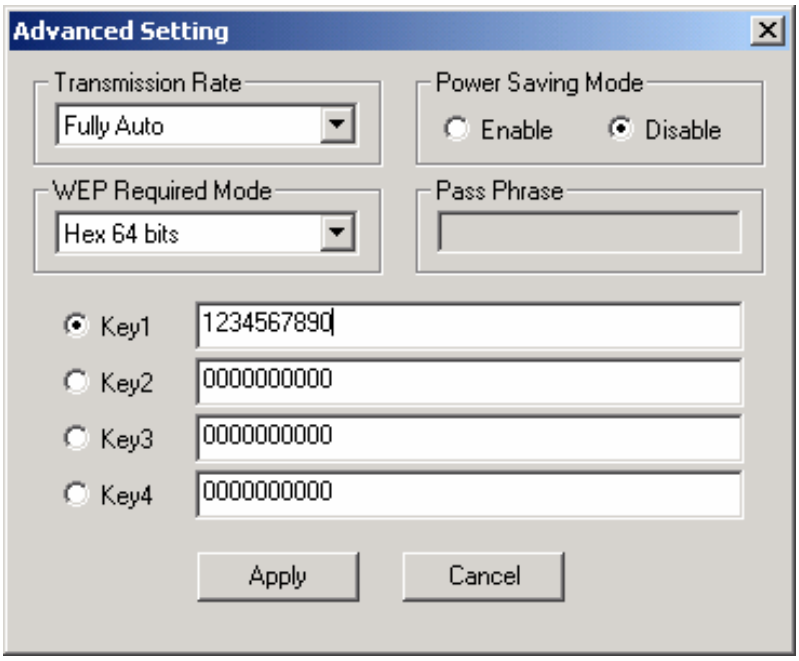
A. ASCII 64 bits: This mode requires 5 ASCII characters range from 0~9 and a(A)~z(Z).



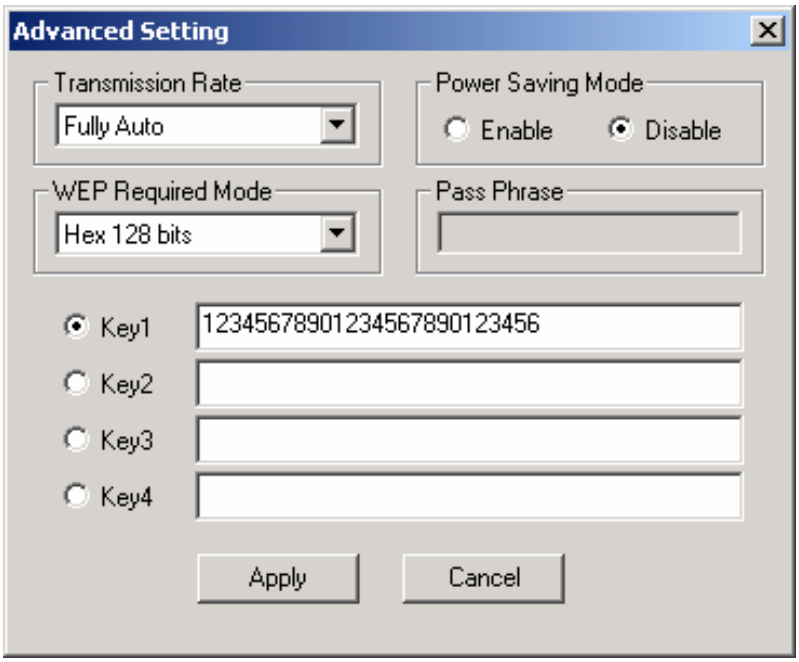
B. ASCII 128 bits: This mode needs 13 ASCII characters range from 0~9 and a(A)~z(Z).



C. Hex 64 bits: This mode needs 10 hexadecimal numbers for use and will have the limit of 10 Hexadecimal value of 0~9 and a(A)~f(F).



D. Hex 128 bits: This mode needs 26 hexadecimal value for use and will have the limit of 26 Hexadecimal number from range of 0~9 and a(A)~f(F).



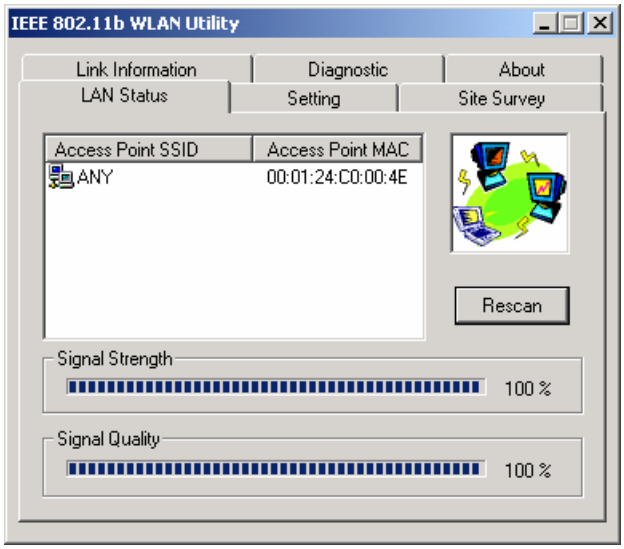
5. Using IEEE802.11b WLAN Utility

5.1 LAN Status

If you want to know the connecting status in Infrastructure Mode or 802.11Ad Hoc Mode, choose LAN Status tab in IEEE802.11b WLAN Utility window.

1. Infrastructure Mode:

   - The columns of SSID and MAC of the Access Point, which your computer connects to, will appear in the screen if you choose the Infrastructure Mode.
   - Double click the Access Point SSID (under the Infrastructure Mode) to access to the Microsoft Network Neighborhood folder to find other on-line computers.
   - You can see the status of the Link Quality and Signal Strength under the LAN Status page.

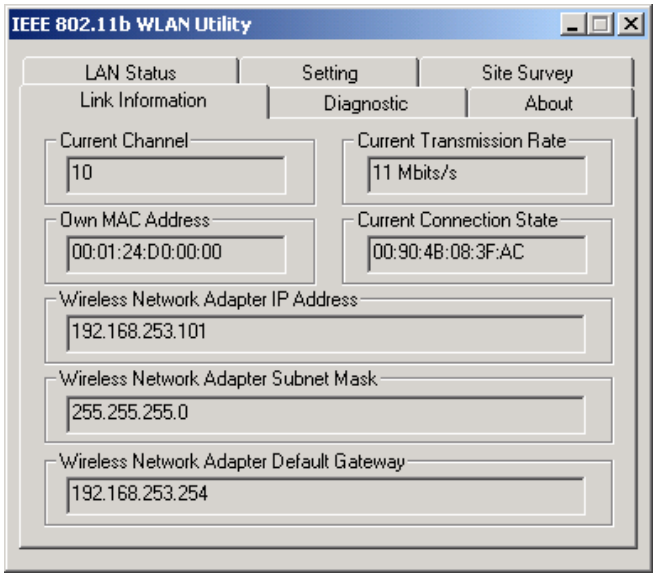


2. 802.11 Ad Hoc Mode:

   - The columns of Station Name and MAC Address of your station will appear if you choose the 802.11Ad Hoc Mode.
   - Double click the name to display the content of your computer or double click Network Neighbors to access to the Microsoft Network Neighborhood folder to find other on-line computers.
   - Click “ Rescan “ to find other computers.

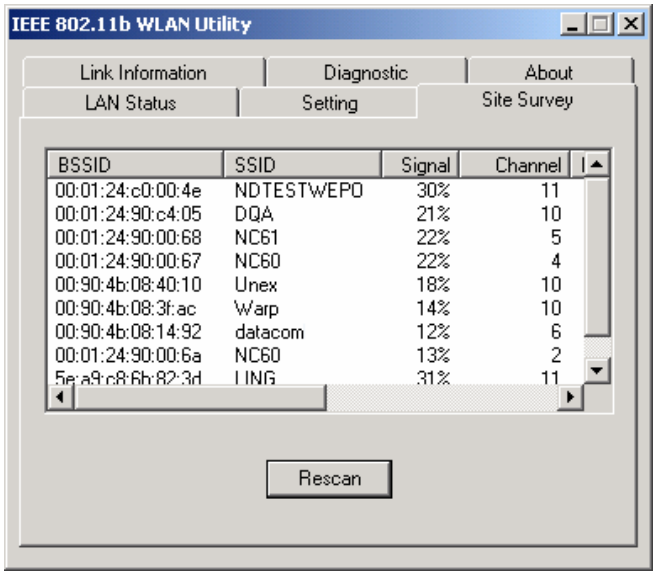
5.2 Link Information

The link information provides information of Current Channel, Current Transmission Rate, Own MAC Address, Current Connection State, Wireless Network Adapter IP Address, Wireless Network Adapter Subnet Mask, and Wireless Network Adapter Default Gateway.



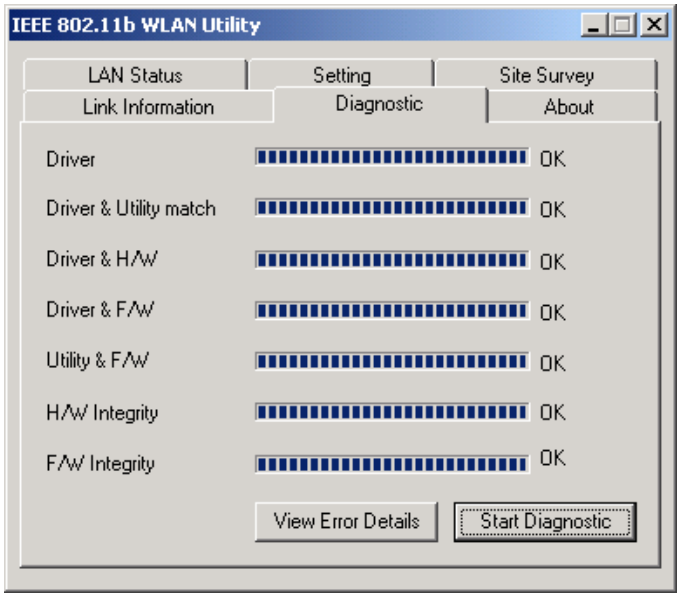
5.3 Site Survey

In this dialog box, you may get all the information of each Access Point within the communication range of your MiniPCI module. You may choose a preferred one to connect to according to the information (Connecting to the Access Point with the strongest signal is recommended.).



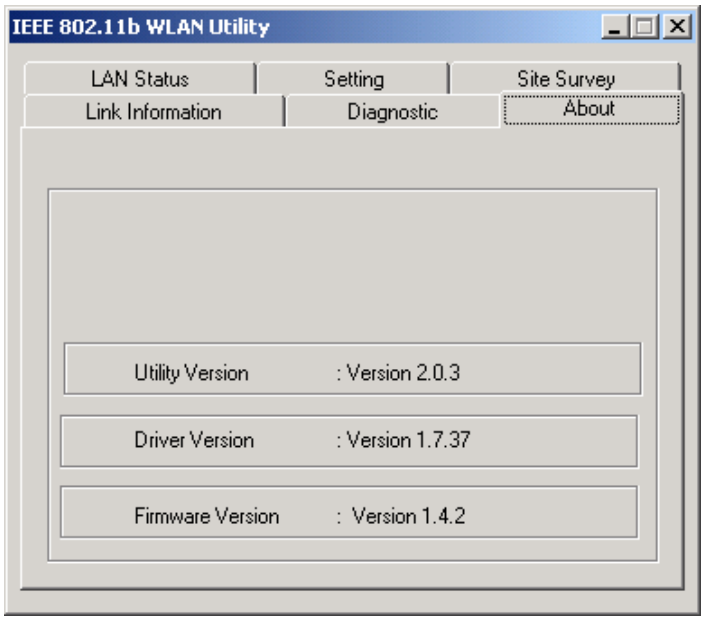
5.4 Diagnostic

To check if there are any errors in the hardware, firmware, and software of your PCI module, you may enter this dialog box and click the “Start Diagnostic” button. If there are any errors, please click the “View Error Details” and print it out to present to your dealer/ distributor.



5.5 About

From this dialog box, you can get the details such as the version information of each Software component.



6. Networking Applications

Available network applications are as follows:

- To Survey the network neighborhood
- To Share Your Folder with Your Network Member(s)
- To Share Your Printer with Your Network Member(s)
- To Access the Shared Folder(s)/File(s) of Your Network Members(s)
- To Use the Shared Printer(s) of Your Network Member(s)

In fact, the network applications of IEEE802.11b MiniPCI are the same as they are in a wired network environment. You may refer to the following 3 examples of Surveying the Network Neighborhood, File Sharing and Using the Shared Folder.

6.1 Surveying the Network Neighborhood

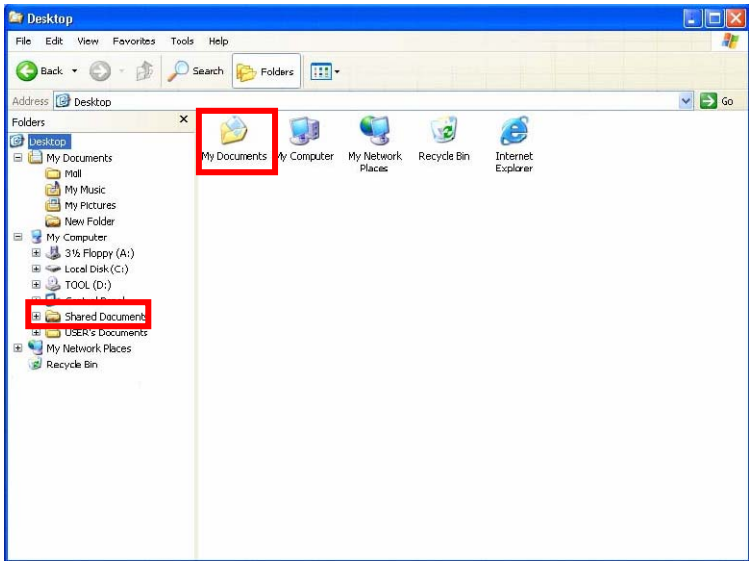
When multiple base stations are used in your wireless network, follow the steps below to display other computers:

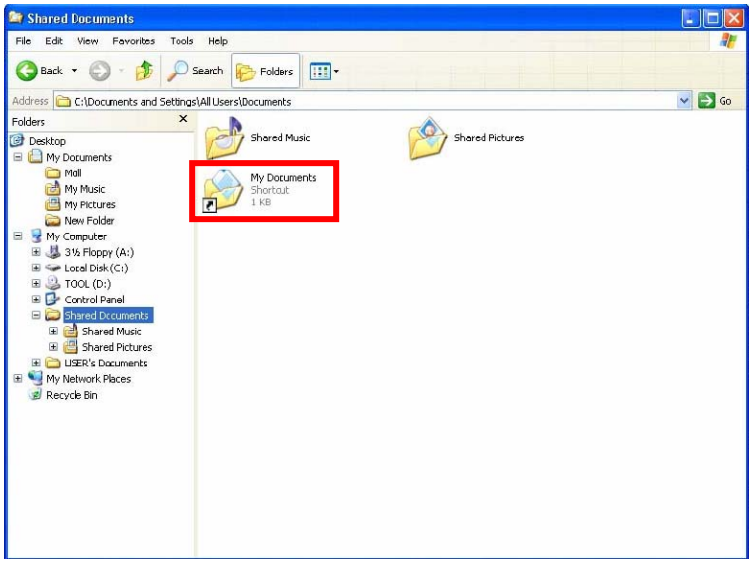
1. **Double-click My Network Places** to display all stations in your Microsoft Windows Network Group.
2. To display other workgroups in the network environment, **double-click Entire Network**.
3. If there is a **second network operating system** running in your network environment (for example a Novell NetWare network), the "Entire Network" window will also display available servers running under the second network operating system. If you click on these servers, you may be asked to **enter your user name and password** that applies to the other network operating system. If you cannot find it, verify whether the other wireless computers are:
   - Powered up and logged on to the network.
   - Configured to operate with identical Microsoft Network settings concerning:
     - Networking Protocol.
     - Wireless Network Name.

To enable the sharing of **Internet access**, you should set the WLAN mode as **"Infrastructure"** and connect to the access point.

6.2 File Sharing

You may share files between computers that are logged onto the same wireless network. For example, if you want to share your folder “My Documents“ with other computers of the wireless network, please **highlight the folder “My Documents” and drag it to Shared Documents folder**.





Sharing files in the IEEE802.11b wireless network will be like sharing files on a wired LAN.

6.3 Using the Shared Folder

If you would like to access a shared folder stored in other stations of the same network, please follow the process below:

1. Double-click the “My Network Places” icon, and then double-click the computer where the shared folder is located.
2. Double-click the folder you want to connect to.
3. Now you may open the needed file(s).

Note: If a password is required, the Windows will prompt a password column to you. Then you need to enter the password that had been assigned to this shared folder.