PLANET
Networking & Communication

11Mbps Wireless CompactFlash Card

WL-3600

User's Manual

REGULATORY STATEMENTS

FCC Certification

The United States Federal Communication Commission (FCC) and the Canadian Department of Communications have established certain rules governing the use of electronic equipment.

Part15, Class B

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interface, and

2) This device must accept any interface received, including interface 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 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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

CAUTION:

1) To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.
2) This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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INTRODUCTION

A wireless LAN is similar to a regular LAN, except that you can share information without looking for a RJ-45 socket to plug in, and expand networks without installing or moving wires. Based on radio frequency (RF) technology, a wireless LAN transmits and receives data over the air, along with the guarantee to provide privacy and noninterference by the use of separate radio frequency.

WL-3600 is the perfect solution for your wireless network applications and based on the IEEE 802.11b standard offering a data rate of 11Mbps in a wireless LAN environment. It is a high-speed wireless network card that connect directly to your PDA or Notebook (with included PC card adapter)—just plug it in and you're ready to share data, printers, or high speed Internet access over your existing wireless network. User-friendly software makes it simple to set up.

Features

- Compliant with IEEE 802.11b standard for 2.4GHz Wireless LAN
- Compliant with Compact Flash Type I Standard
- Compatible with Windows CE 3.0
- Compatible with Windows 98/NT/ME/2000 /XP (with included PC card adapter)
- Plug-and-play operation provides easy setup
- Works with all existing network infrastructure
- Compatible with specific wireless products and services
- Capable of up to 128-Bit WEP Encryption

Freedom to roam while staying connected

11 Mbps High-Speed Transfer Rate

Rich diagnostic LED indicators with built-in Antenna

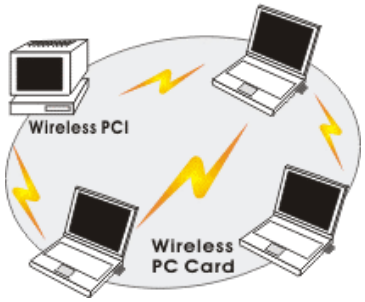
Lower power consumption and power save mode

Easy to install and configure

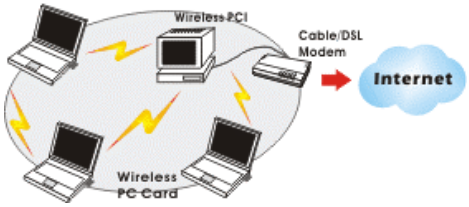
Wireless Network Options

The Peer-to-Peer Network

This network installation lets you set a small wireless workgroup easily and quickly. Equipped with Wireless CompactFlash Cards or wireless PCI, you can share files and printers between each PC and laptop.

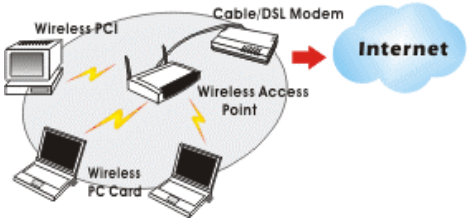


Or you can use one computer as an Internet Server to connect to a wired global network and share files and information with other PCs via a wireless LAN.



The Access Point Network

The network installation allows you to share files, printers, and Internet access much more conveniently. With Wireless CompactFlash Cards, you can connect wireless LAN to a wired global network via an **Access Point**.



LED Indicators

Link: Orange (On/Blink)

Access Point Mode

On – the link to an Access Point is up.

Blink – searching for Access Points in the networks.

Peer-to-Peer Mode

On – forming a Basic Service Set or joining to a Basic Service Set.

Blink – searching for other wireless LAN cards in the wireless network.

Act: Green (On/Off)

On – transmitting / receiving wireless data.

Off – no traffic on the link.

FOR WINDOWS CE3.0

Software Installation

Connect your PDA to your PC. Make sure you have the Microsoft ActiveSync Utility installed on your PC to make an active connection.

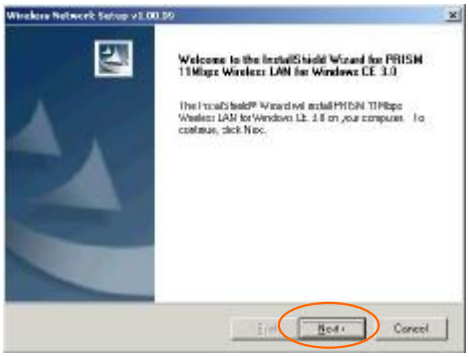
> **Caution**: **DO NOT** insert WL-3600 into the PDA **BEFORE** installing the configuration utility.

1. Insert the device driver CD into the CD-ROM drive.
2. Open **E:\DRIVER\WL-3600\WINCE3.0** folder where E is the CD-ROM drive.

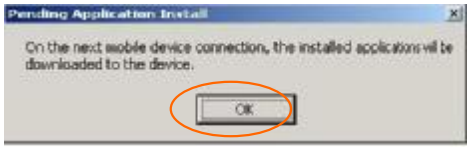
3. Inside the **WINCE3.0** folder, click on **Prism-ForPocketCE**.

> **For Handheld PC users**: Please select **Prism-ForHandHeldCE**.

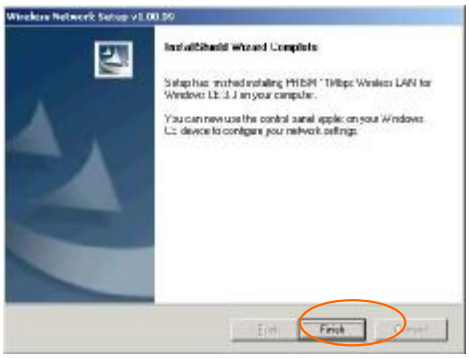
Click **Next** to continue.



Click **OK**.



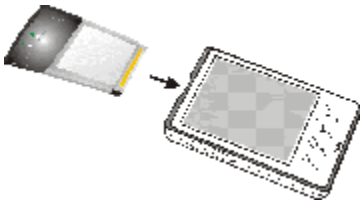
Click **Finish**.



You can now insert WL-3600 into the PDA. Then use the **Settings** on your Windows CE to configure the network settings.

Hardware Installation

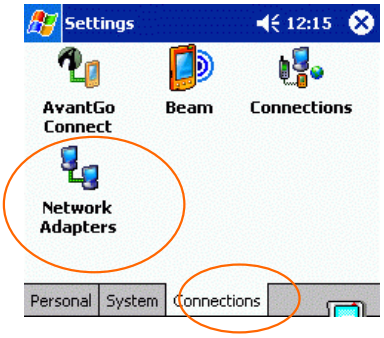
Insert WL-3600 into the Windows CE-based PDA by aligning the Wireless CF card toward the CF slot.



Network Connection

Once the driver has been installed, you must make some changes to your network settings.

1. Go to Start **à** Settings **à** Connections. Click on Network Adapters.



2. Highlight **PRISM 11Mbps Wireless LAN Adapter**, click **Properties**.

¤ Use server-assigned IP address

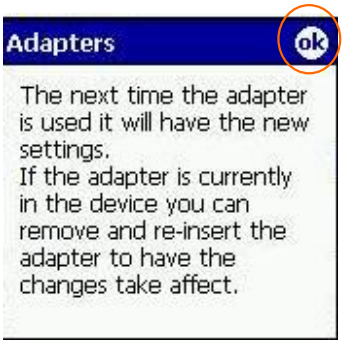
If your network supports DHCP, select **Use server-assigned IP address**. The IP address and other information will be automatically assigned. Then click **ok**.

¤ Use specific IP address

If your network does not support DHCP, select **Use specific IP address**. You may need to enter the IP address and other information. When you have finished entering settings, click **OK**.

If you forget to click **OK**, your settings will not take effect!

A message as below may appear saying you must remove and re-insert WL-3600 to have the changes take affect. Click **OK**.



Configuration Utility

After installing WL-3600's driver successfully, go to **Start à Programs**. Click on **PRISM Settings**, the **Network Status** icon will appear in the task bar.

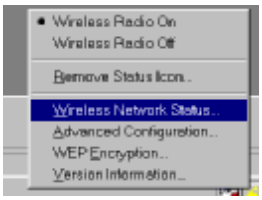
Network Status Icon & Icon Menu

The Status Icon

Icon	Link Status
	Green indicates a strong link.
	Yellow indicates a weak link.
	Red indicates no or a very poor link.

Icon Menu

After clicking on the icon, the icon menu as displayed below will prompt you to configure WL-3600.



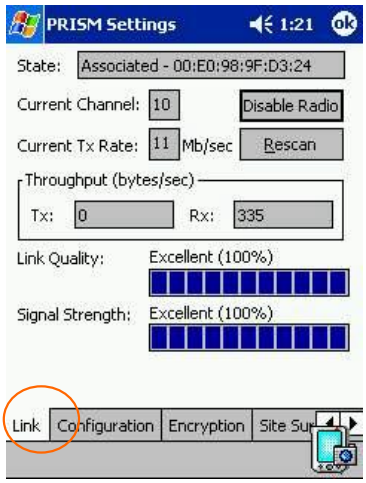
Items	Description
Wireless Radio On	These two items allows you to enable or disable the wireless radio.
Wireless Radio Off	
Remove Status Icon…	Removes the Utility icon from the PDA's system tray. Each time you power on your PDA, the icon will reappear.
Wireless Network Status	Clicking these items will launch the Wireless Settings window, as described below.
Advanced Configuration…	
WEP Encryption…	
Version Information…	

All settings are categorized into 5 tabs:

Link
Configuration
Encryption
Site Survey
About

Link

The **Link** tab provides you the status of WL-3600.

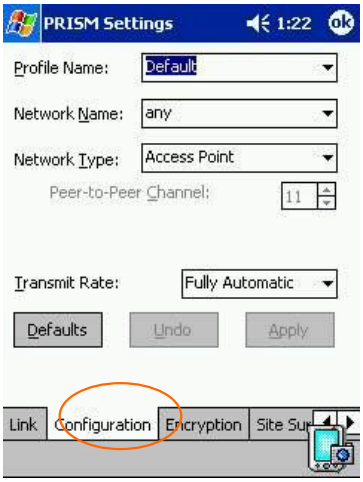


Item	Description
State	It displays the connection state of WL-3600 with the wireless network.
Current Channel	It displays the selected channel that is currently used. (There are 14 channels available, depends on the country.)
Enable Radio / Disable Radio	Click this button to enable/disable the wireless radio. WL-3600 will connect/disconnect with the wireless network.
Rescan	Search for all available networks. Clicking on the button, the device will start to rescan.
Current Tx Rate	It displays the current transfer rate.
Throughput	It displays the transferring (Tx) and receiving (Rx) data rate in bytes per second.

Item	Description
Link Quality	It displays the link quality of the connection between WL-3600 and the Access Point or Peer-to-Peer type it connects.
Signal Strength	It displays the signal strength of the connection between WL-3600 and the Access Point or Peer-to-Peer type it connects.

Configuration

The **Configuration** tab allows setting parameters for WL-3600.



Item	Description
Profile	Saves values for all previous setting parameters. The default values contain the parameters configured at installation.

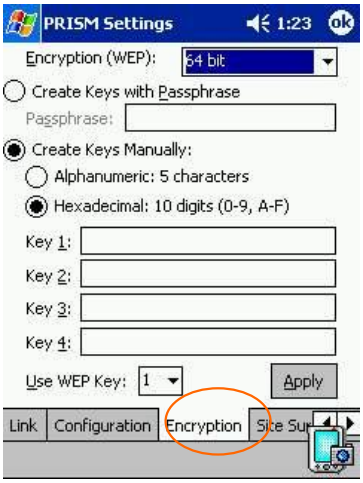
Item	Description
Name	Once the demands for switching between different networking environments are required, you can also set the additional profiles to eliminate the configuration time. To save the current parameters, highlight the Profile field, type a new name, and click on the Apply button.
Network Name	A specific name shared among connected Wireless CompactFlash Card, Access Points and other wireless stations on the wireless network. The name must be identical for all devices and points attempting to connect to the same network. The default name is ANY. To change the Network Name, simply enter a new name in the field.
Network Type	It displays the type of BSS. Access Point: allows the Adapter to communicate with a wired network which employing an Access Point. Peer-to-Peer: allows PC-to-PC, station-to-station communication without employing an Access Point.
Peer-to-Peer Channel	To communicate with other Wireless CompactFlash Card, you must specify the same channel. Click the up and down arrow at the right of the Peer-to-Peer Channel to set the desired channel.
Transmit Rate	It displays the current transmit rate. 1Mb, 2Mb, Auto 1 or 2 Mb, 5.5Mb, 11Mb or Fully Automatic.
Default	Clicks the button to restore to the default settings.
Undo	Click Undo to ignore the previous setting.
Apply	Click Apply to activate the settings.
ok	Click OK to save your changes.

Encryption

WEP (Wired Equivalent Privacy) encryption can be used to ensure the security of your wireless network.

Item	Description
Encryption (WEP)	WEP is a data privacy mechanism based on a 64-bit/128-bit shared key algorithm. Under the drop-down box, you can choose to have WEP encryption Disabled, 64 bit, or 128 bit.
Create Keys with Passphrase	A Passphrase can be entered to generate four keys used for WEP. For the easiest configuration, the Passphrase method is recommended.
Create Keys Manually	These four fields can be used to enter WEP keys manually. The method is required to match the keys of other wireless devices on the existing network.

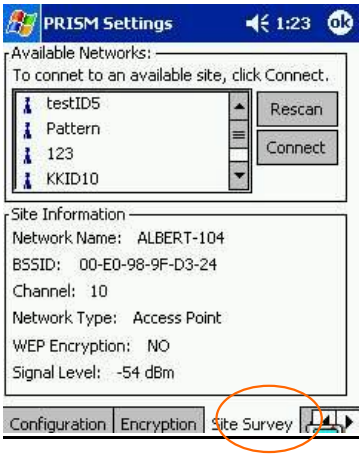
¤ Alphanumeric: 5 characters	Click Alphanumeric if you are using an alphanumeric phrase.
¤ Hexadecimal: 10 digits (0-9, A-F)	Click Hexadecimal if you are using a hexadecimal number.
Key 1: Key 2: Key 3: Key 4:	This setting is the configuration key used in accessing the wireless network via WEP encryption.
Use WEP Key	The default key field can be used for specifying which of the four encryption keys to transmit data on the wireless network.
Apply	Click Apply to activate the settings.



You must use the same value/phrase and WEP key settings for all wireless computers in order for the wireless network to function well.

Site Survey

The **Site Survey** tab shows all the available Access Points or Peer-to-Peer types and their features.

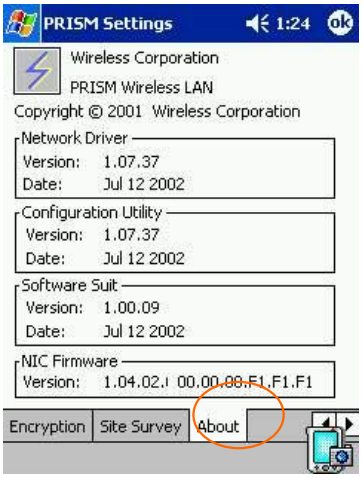


Item	Description
Network Name	The name must be identical for all devices and points attempting to connect to the same network.
BSSID	A set of wireless stations is referred to as a Basic Service Set (BSS). Computers in a BSS must be configured with the same BSS ID.
Channel	It shows the selected channel that is currently used.
Network Type	It displays the type of BSS. Access Point: allows the Adapter to communicate with a wired network which employing an Access Point. Peer-to-Peer: allows PC-to-PC, sta-

Item	Description
	tion-to-station communication without employing an Access Point.
WEP Encryption	It displays the status of WEP Encryption.
Signal Level	It displays the signal strength of the connection between WL-3600 and the Access Point it connects.
Rescan	Search for all available networks. Clicking on the button, the device will start to rescan and list all available sites.
Connect	To connect with a new access point, highlights the desired one in the left list box and clicks on the Connect button. Wait a while and the selected one will be marked as a current used access point.

About

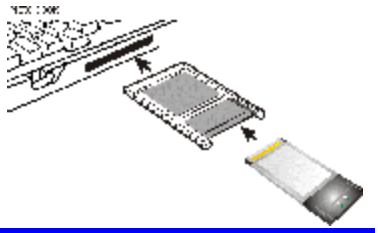
The **About** tab shows the information and version of the Configuration Utility.



FOR NOTEBOOK PC

Hardware Installation

1. Plug WL-3600 into the PC card Adapter. WL-3600 is then turning into a conventional PCMCIA type II PC Card.
2. Align the PC Card toward the PC Card slot with brand label facing upward, as shown below.

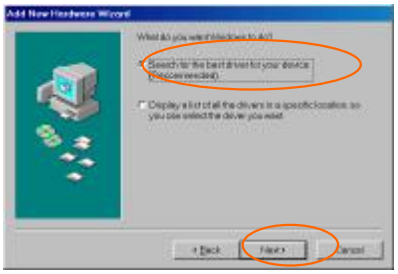


Software Installation

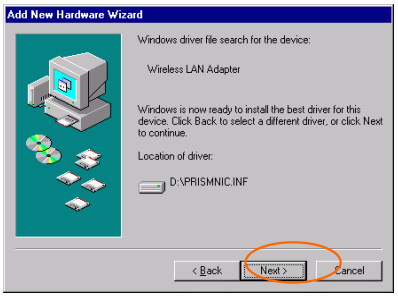
In Windows 98

1. Once WL-3600 is connected to your computer, Windows 98 will automatically detect the new hardware device as shown below. Click **Next**.

2. Insert the device driver CD-ROM into your CD-ROM drive. Click **Next**.

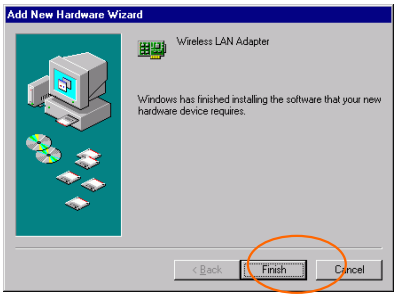


3. Select **CD-ROM drive** and click **Next**.
4. Click **Next**.

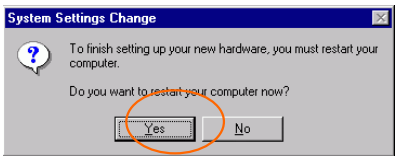


5. Insert Windows 98SE CD-ROM, and then click **OK**.

6. Click **Finish** to complete the installation.

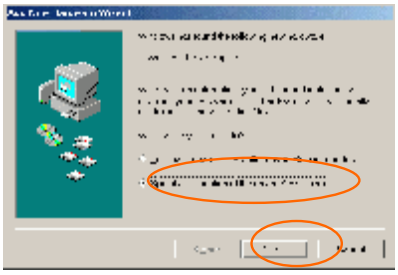


7. Click **Yes** to restart your computer.

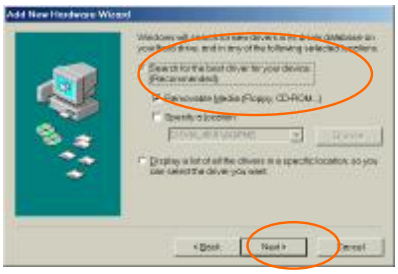


In Windows ME

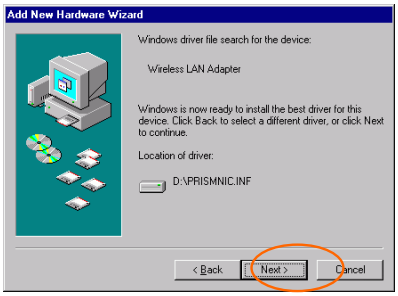
1. Once WL-3600 is well connected to your computer, Windows ME will automatically detect the new device. Select **Specify the Location of the driver…** and click **Next**.



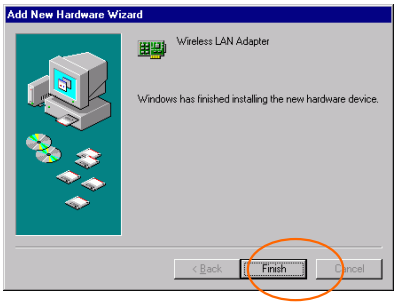
2. Insert the device driver CD-ROM into your CD-ROM drive on your system. Select **Removable Media (Floppy, CD-ROM…)** and click **Next**.



3. Click **Next**.



4. When the following window appears, click **Finish**.

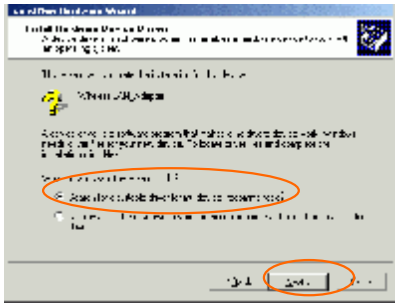


5. Click **Yes** to restart your computer.

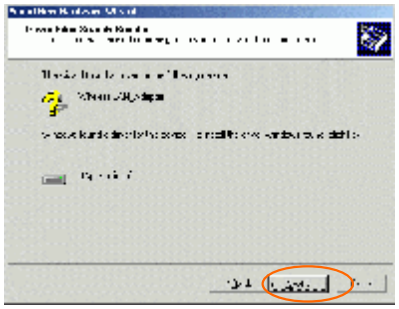
In Windows 2000

1. Once WL-3600 is well connected to your computer, Windows 2000 will automatically detect the new device. Click **Next**.

2. Select **Search for a suitable driver…** and press **Next**.

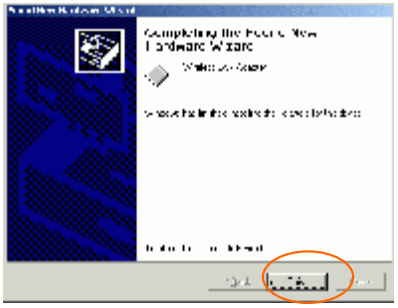


3. Insert the device driver CD-ROM into your CD-ROM drive. Select **CD-ROM drive** and click **Next**.
4. Click **Next** to continue.



5. In "**Digital Signature Not Found**" window, click **Yes** to continue.

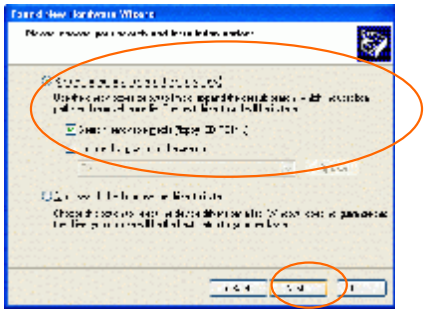
6. Click **Finish.** The software installation is successfully completed.



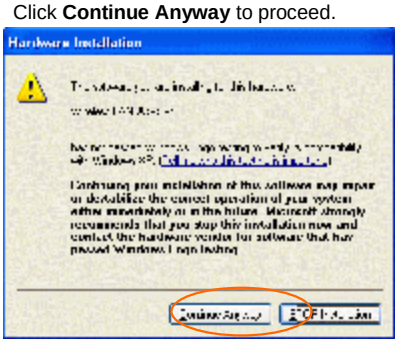
In Windows XP

1. Once WL-3600 is well connected to your computer, Windows XP will automatically detect the new device. Click **Install from a list…** and click **Next.**
2. Insert the device driver CD-ROM into your CD-ROM drive on your system. Select

Search removable media (floppy, CD-ROM…) and click **Next**.



3. Click **Continue Anyway** to proceed.



4. Click **Finish.** The software installation for this network device is now completed.

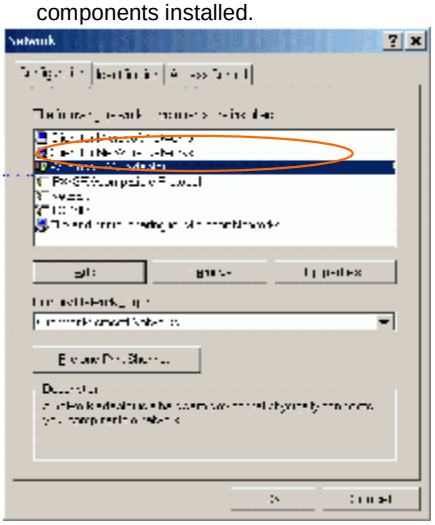
Completing the
Hardware Wizard

Network Connection

Once the driver has been installed, you must make some changes to your network settings.

In Windows 98/ME

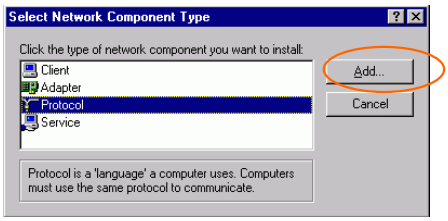
1. Go to Start **à** Settings **à** Control Panel **à** Network.
2. Make sure that you have all the following components installed.



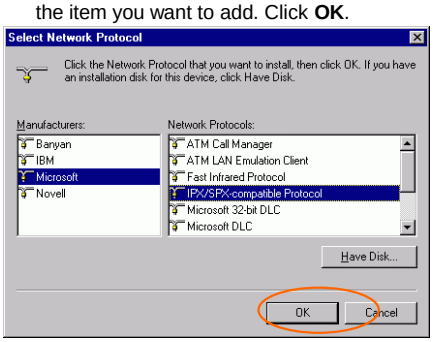
- **Wireless LAN Adapter**
- **IPX/SPX-compatible Protocol**
- **NetBEUI**
- **TCP/IP**

If any components are missing, click on the **Add** button to add them in. All the protocols and clients required and listed above are provided by Microsoft.

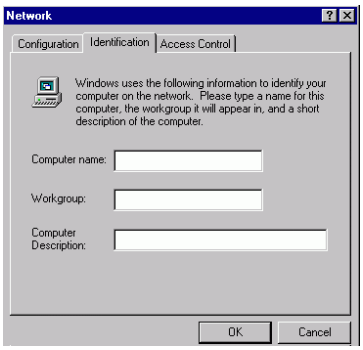
3. After clicking **Add**, highlight the component you need, click **Add**.



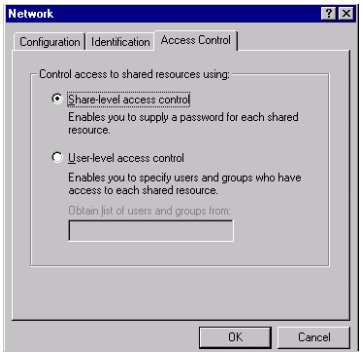
4. Highlight **Microsoft**, and then double click on the item you want to add. Click **OK**.



5. For making your computer visible on the network, enable the **File and Print Sharing**.
6. Click the **Identification** tab. Create a name that is unique from the other computers' names on the network. Type the name of your workgroup, which should be the same used by all of the other PCs on the network.



7. Click the **Access Control** tab. Make sure that "**Shared-level access control**" is selected. If connecting to a Netware server, share level can be set to "**User-level access control**."



8. When finished, reboot your computer to activate the new device.
9. Once the computer has restarted and Windows has booted up, a **Logon** window will

appear and ask you to enter a username and password. Create a username and password and click **OK**. Do not click the **Cancel** button, or you won't be able to log on to the network.

10. Double-click the **Network Neighborhood** icon on the windows desktop, and you should see the names of the other PCs on the network.

In Windows 2000/XP

1. (For **Windows 2000**)

   Go to **Start à Settings à Control Panel à Network and Dial-up Connections à Local Area Connection à Properties**.

   (For **Windows XP**)

   Go to **Start à Control Panel à Network Connections à Wireless Network Connection Enabled Wireless LAN Adapter à Properties**.

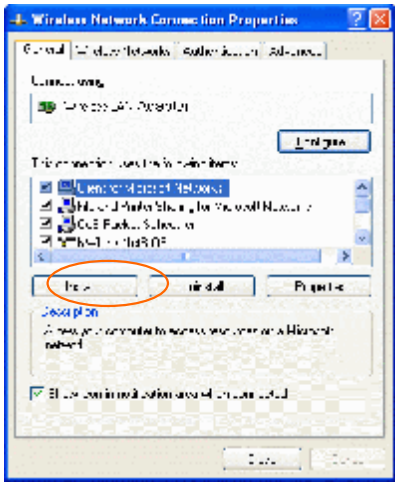
2. Make sure that you have all the following components installed.

§ **Client for Microsoft Networks**

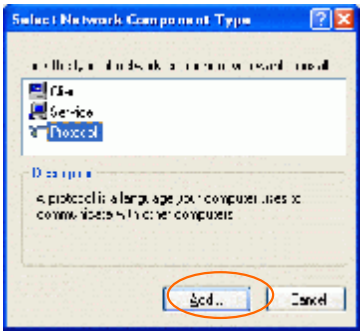
§ **NWLink NetBIOS**

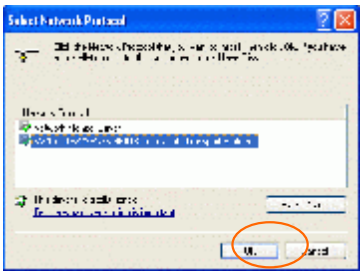
§ **NWLink IPX/SPX/NetBIOS Compatible Transport Protocol**

§ **Internet Protocol (TCP/IP)**



3. If any components are missing, click on the **Install…**button to select the **Client/Service/Protocol** required. After selecting the component you need, click **Add…**to add it in.





4. For making your computer visible on the network, make sure you have installed **File and Printer Sharing for Microsoft Networks**.
5. When finished, you must restart your computer to complete installation.

Configuration

Note: For Windows XP users, you have two options to configure the Wireless settings:

1) **Use Manufacturer's Configuration Utility**

Please go to Step 3 of **Use Windows XP's Wireless Configuration** section to disable the Windows XP's wireless configuration.

2) **Use Windows XP's Wireless Configuration**.

Please go to **Use Windows XP's Wireless Configuration Utility** section to use the configuration.

Use Manufacturer's Configuration Utility

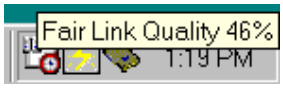
After installing WL-3600's driver successfully, the **Network Status** icon will appear in the task bar.

Network Status Icon & Icon Menu

The Status Icon

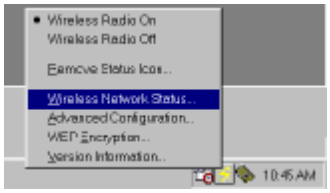
Icon	Link Status
	Green indicates a strong link.
	Yellow indicates a weak link.
	Red indicates no or a very poor link.

To view the exact link quality of WL-3600, move the cursor over the status icon, as shown below.



Icon Menu

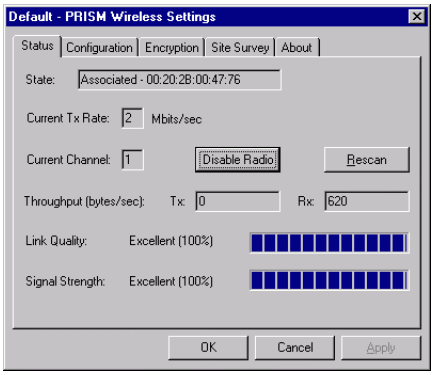
After clicking on the icon, the icon menu as displayed below will prompt you to configure WL-3600.



Items	Description
Wireless Radio On	These two items allows you to enable or disable the wireless radio.
Wireless Radio Off	
Remove Status Icon…	Removes the icon from the taskbar. Each time you power on your PC, the icon will re-appear.
Wireless Network Status	Clicking these items will launch the Wireless Settings window, as described below.
Advanced Configuration…	
WEP Encryption…	
Version Information…	

Status

The **Status** tab provides you the status of WL-3600.

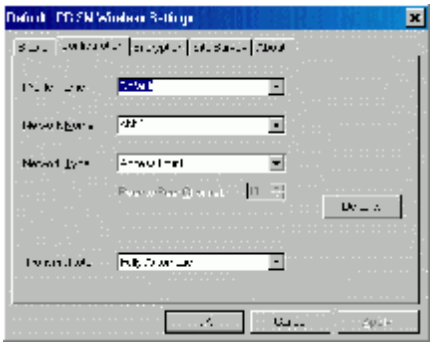


Item	Description
State	It displays the connection state of WL-3600 with the wireless network.
Current Tx Rate	It displays the current transfer rate.
Current Channel	It displays the selected channel that is currently used. (There are 14 channels available, depends on the country.)
Disable Radio	Click this button to disable the wireless radio. WL-3600 will disconnect with the wireless network.
Rescan	Search for all available networks. Clicking on the button, the device will start to rescan.
Throughput	It displays the transferring (Tx) and receiving (Rx) data rate in bytes per second.
Link Quality	It displays the link quality of the connection between WL-3600 and the Access Point or Peer-to-Peer type it connects.
Signal Strength	It displays the signal strength of the connection between WL-3600 and the Access Point or Peer-to-Peer type it connects.
OK	Click OK to save your changes.

Item	Description
Cancel	Click Cancel to ignore the previous setting.
Apply	Click Apply to activate the settings.

Configuration

The **Configuration** tab allows to set parameters for WL-3600.



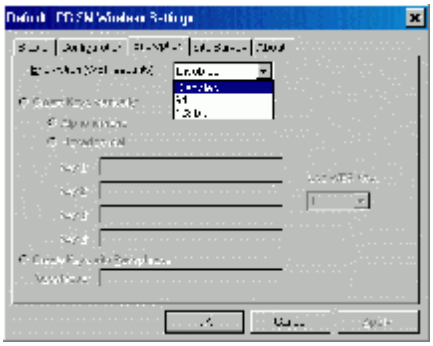
Item	Description
Profile Name	Saves values for all previous setting parameters. The default values contain the parameters configured at installation. Once the demands for switching between different networking environments are required, you can also set the additional profiles to eliminate the configuration time. To save the current parameters, highlight the Profile field, type a new name, and click on the Apply button.
Network Name	A specific name shared among connected Wireless PC, Access Points and other wireless stations on the wireless network. The name must be identical

Item	Description
	for all devices and points attempting to connect to the same network. The default name is ANY. To change the Network Name, simply enter a new name in the field.
Network Type	It displays the type of BSS. Access Point: allows the Adapter to communicate with a wired network which employing an Access Point. Peer-to-Peer: allows PC-to-PC, station-to-station communication without employing an Access Point. (Note: For the detailed illustration about Access Point and Peer-to-Peer modes, please refer to the Wireless Network Options section.)
Peer-to-Peer Channel	To communicate with other Wireless PC, you must specify the same channel. Click the up and down arrow at the right of the Peer-to-Peer Channel to set the desired channel. The field is gray in Access Point mode.
Transmit Rate	It displays the current transmit rate. 1Mb, 2Mb, Auto 1 or 2 Mb, 5.5Mb, 11Mb or Fully Automatic.
Defaults	Clicks the button to restore to the default settings.
OK	Click OK to save your changes.
Cancel	Click Cancel to ignore the previous setting.
Apply	Click Apply to activate the settings.

Encryption

WEP (Wired Equivalent Privacy) encryption can be used to ensure the security of your wireless network. The window allows you to set to **64bit** or **128bit** Encryption (WEP) by using either **Passphrase** or **Manual Entry** methods.

Note: To allow Decryption and communication, all wireless devices must share the identical encryption key on the same network.



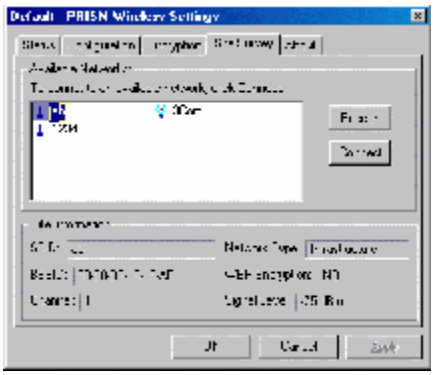
Item	Description
Encryption (WEP security)	WEP is a data privacy mechanism based on a 64-bit/128-bit shared key algorithm. Under the drop-down box, you can choose to have WEP encryption Disabled, 64 bit, or 128 bit.
Create Keys with Passphrase	A Passphrase can be entered to generate four keys used for WEP. For the easiest configuration, the Passphrase method is recommended.
Create Keys Manually	These four fields can be used to enter WEP keys manually. The method is required to match the keys of other wireless devices on the existing network.
¤ Alphanumeric: 5 characters	Click Alphanumeric if you are using an alphanumeric phrase.
¤ Hexadecimal: 10 digits (0-9, A-F)	Click Hexadecimal if you are using a hexadecimal number.

Key 1: Key 2: Key 3: Key 4:	This setting is the configuration key used in accessing the wireless network via WEP encryption.
Use WEP Key	The default key field can be used for specifying which of the four encryption keys to transmit data on the wireless network.
OK	Click OK to save your changes.
Cancel	Click Cancel to ignore the previous setting.
Apply	Click Apply to activate the settings.

Site Survey

The **Site Survey** tab shows all the available Access Points and their information.

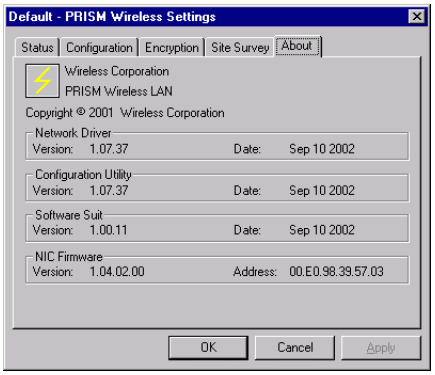
Highlight the access point displayed in the left list box, and you can see its features illustrated in the following fields.



Item	Description
Available Networks	It displays all available networks.
Network Name	The name must be identical for all devices and points attempting to connect to the same network.
SSID	It displays the current SSID setting of the Wireless Network Adapter.
BSSID	A set of wireless stations is referred to as a Basic Service Set (BSS). Computers in a BSS must be configured with the same BSS ID.
Channel	It shows the selected channel that is currently used.
Network Type	It displays the type of BSS. Access Point: allows the Adapter to communicate with a wired network which employing an Access Point. Peer-to-Peer: allows PC-to-PC, station-to-station communication without employing an Access Point.
WEP Encryption	It displays the status of WEP Encryption.
Signal Level	It displays the signal strength of the connection between the Wireless PC and the Access Point it connects.
Rescan	Search for all available networks. Clicking on the button, the device will start to rescan and list all available sites.
Connect	To connect with a new access point, highlights the desired one in the left list box and clicks on the Connect button. Wait a while and the selected one will be marked as a current used access point.

About

The **About** tab shows the information and version of the Configuration Utility.

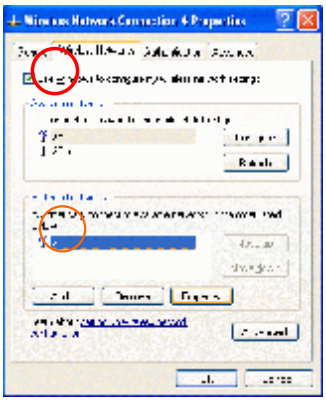

Default - PRISM Wireless Settings
Status
Configuration
Encryption
Site Survey
About
Wireless Corporation
PRISM Wireless LAN
Copyright © 2001 Wireless Corporation
Network Driver
Version: 1.07.37
Date: Sep 10 2002
Configuration Utility
Version: 1.07.37
Date: Sep 10 2002
Software Suit
Version: 1.00.11
Date: Sep 10 2002
NIC Firmware
Version: 1.04.02.00
Address: 00.E0.98.39.57.03
OK
Cancel
Apply

Use Windows XP's Wireless Configuration Utility

1. Go to **Start à Control Panel à Network Connections**.
2. In Network Connections window, right-click the **Wireless Network Connections** icon, and select **Properties**.

Note: Double-click the **Wireless Network Connection** icon and you can also see the status of WL-3600 as described below.

3. In **Wireless Network Connection Properties** window, select the **Wireless Networks** tab.



¨ Use Windows to configure…

*** Use Windows to configure**

Note: Once you enable windows configuration, there will be only two tabs, **Status** and **About**. You can only use Windows XP's Wireless Configuration Utility to configure the wireless settings.

*** Use Manufacturer's Configuration Utility**

Note: If you want to use manufacturer's configuration utility to configure the wireless settings, make sure the check box is **not** enabled then click the Network Status icon in the taskbar.

Available networks

Displays all available networks.

Configure

Click the button to set up a new network or WEP configuration as illustrated as below.

Refresh

Click the button to refresh and search for all available networks.

Preferred networks

From available network(s) listed above, you can select preferred one(s) in an order that you can arrange.

The marked one is the currently used network.

Move up

Move the selected network forward one position.

Move down

Move the selected network back one position

Add…

Click the button and the **Wireless Network Properties** window will appear. In the **Network name** field, enter your desired network name listed in the above **Available networks** box, and click **OK**.

> ***Note***: The new settings will be active only after you click on OK in the **Wireless Network Connection Properties** window.

Remove

Highlight the unwanted network listed in the **Preferred networks** box, and click the button to remove it.

Properties

Highlight the network listed in the above **Preferred networks** box, and click the button to display its properties.

Once network configuration is done, make sure to click **OK**. The new parameters will be saved and active only after doing so.

SPECIFICATIONS

Standards	IEEE 802.11b, Wi-Fi compliant
Host Interface	CompactFlash Type I
Physical	Weight: 15 g Dimension: 68.77(L) x 42.8(W) x 6.4(H) mm
Antenna	Internal Chip Antenna
LED Indicators	Link: Orange; Act: Green
Power Requirement	Operating Voltage: 5V or 3.3V Ÿ TX consumption: 300mA (Max) Ÿ RX consumption: 200mA (Max) Ÿ Sleep Mode: 50mA
Environment Specifications	Ÿ Operating Temperature: 0~65℃ ambient temperature Ÿ Storage Temperature: -20~75℃ ambient temperature Ÿ Operating humidity: 95% maximum (non condensing) Ÿ Storage humidity: 95% maximum (non-condensing)
Frequency Range	2.412GHz-2.4835GHz
Number of Selectable Channels	USA, Canada: 11 channels Japan: 14 channels Europe: 13 channels
Data rate	1/2/5.5/11 Mbps
Modulation Technique	Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)
Security	64/128 bit WEP
Spreading	11 chip Barker sequence
Bit Error rate	Better than 10^{-5}
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK

Supported OS	For Notebook PC: Windows 95(OSR2)/98/ME/2000/ XP/NT For Handheld/Pocket PC: Windows CE
EMC Certification	- FCC Part 15 in US - EN300328 and EN300826 (301489-17) in Europe

EM-WL3600V1