802.11g

Wireless mini PCI Card

User's Manual

P/N: 9560NV0001

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.

Channel

The Wireless Channel sets the radio frequency used for communication.

- Access Points use a fixed Channel. You can select the Channel used. This allows you to choose a Channel which provides the least interference and best performance. In the USA and Canada, 11 channel are available. If using multiple Access Points, it is better if adjacent Access Points use different Channels to reduce interference.
- In "Infrastructure" mode, Wireless Stations normally scan all Channels, looking for an Access Point. If more than one Access Point can be used, the one with the strongest signal is used. (This can only happen within an ESS.)
- If using "Ad-hoc" mode (no Access Point), all Wireless stations should be set to use the same Channel. However, most Wireless stations will still scan all Channels to see if there is an existing "Ad-hoc" group they can join.

Table of Contents

INTRODUCTION 1

WIRELESS NETWORK OPTIONS 1

The Peer-to-Peer Network 1

The Access Point Network 2

WIRELESS PCI CARD 2

Power Indicator: (Orange LED) 2

Act Indicator: (Green LED) 3

INSTALLATION 4

INSTALL THE DRIVER & UTILITY 4

INSTALL THE DEVICE 7

Note for Windows 98 users: 7

Note for Windows 2000 users: 8

Note for Windows XP users: 8

Verify Device Installation 9

NETWORK CONNECTION 11

IN WINDOWS 98/ME 11

IN WINDOWS 2000/XP 14

CONFIGURATION 17

ACCESSING THE CONFIGURATION UTILITY 17

MAIN TAB 18
ADVANCED TAB 22
PRIVACY TAB 22
STATISTICS TAB 29
ABOUT TAB 30

UNINSTALLATION 31

INTRODUCTION

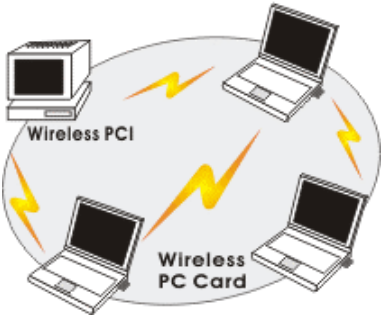
The **802.11g Wireless LAN Card** is a device that allows you connect your computer to a wireless local area network (LAN). A wireless LAN allows your system to use wireless Radio Frequency (RF) technology to transmit and receive data without having to physically attach to the network. The Wireless protocols that come with this product ensure data security and isolation from interference generated by other radio frequencies.

This card also allows you to take full advantage of your computer's mobility with access to real-time information and online services anytime and anywhere. In addition, this device eliminates the bother of pulling cable through walls and under furniture. It even allows you to place your system in locations where cabling is impossible. Modifying and augmenting networks has never been so easy.

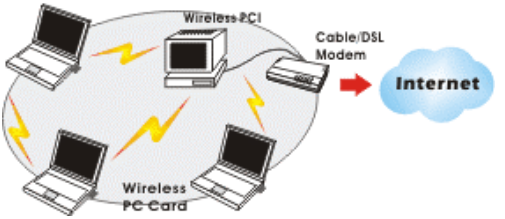
Wireless Network Options

The Peer-to-Peer Network

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

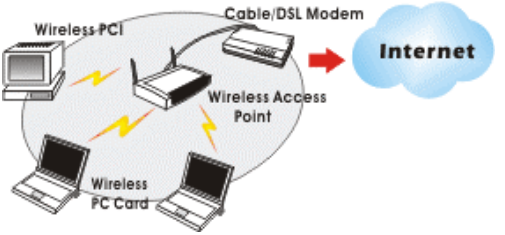


You can also use one computer as an Internet Server to connect to a wired global network and share files and information with other computers via a wireless LAN.

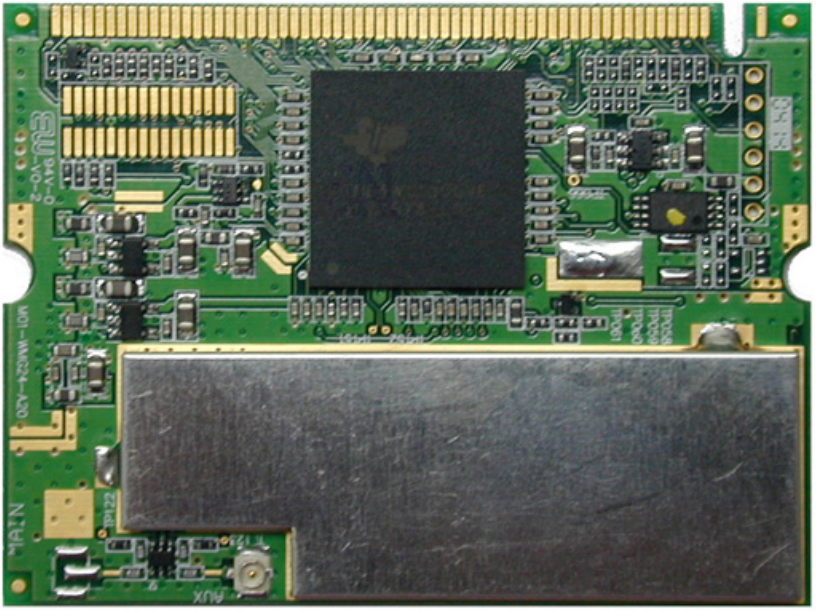


The Access Point Network

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



Wireless PCI Card



INSTALLATION

Caution: Do not insert the **Wireless LAN Card** into your computer until the procedures in "**Install the Driver & Utility**" has been performed.

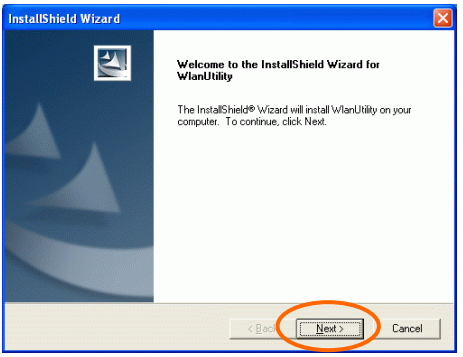
Install the Driver & Utility

3. Exit all Windows programs. Insert the CD-ROM into the CD-ROM drive of your computer.

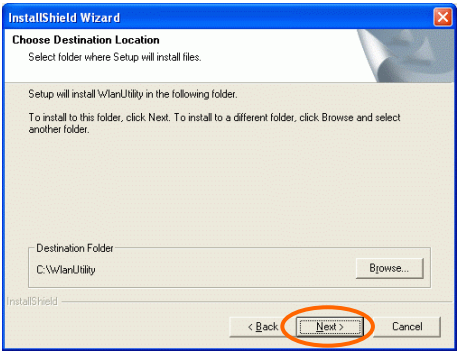
   If the CD-ROM is not launched automatically, go to your CD-ROM drive (e.g. drive D) and double-click on **Setup.exe.**

4. The main screen of the CD-ROM opens. Click **Install Driver & Utility** to start the installation.

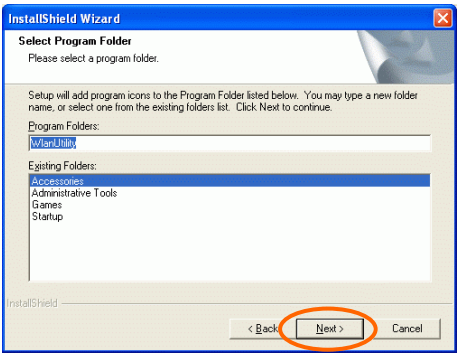
5. When the Welcome screen appears, click **Next** to continue.



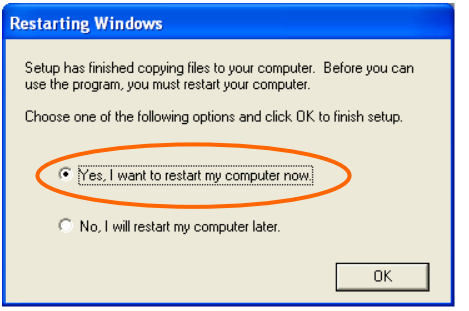
6. The **Choose Destination Location** screen will show you the default destination chosen by the utility. Click **Next** to continue.



7. Follow the instruction to select the program folder. Click **Next** to continue.



8. Select **Yes, I want to restart my computer now** and click **OK** to complete the installation



Install the device[1]

Note: Make sure the procedures in "**Install the Driver & Utility**" has been performed.

1. If you are using the Wireless PCI Card, before installing the device, make sure the computer is turned off. Remove the expansion slot cover from the computer.
2. Carefully slide the Wireless PCI Card into the PCI slot. Push evenly and slowly and ensure it is properly seated. For Wireless PCI Card, you may have to use the mounting screw to have the card screwed securely in place.
3. After the device has been connected to your computer, turn on your computer. Windows will detect the new hardware and then automatically copy all of the files needed for networking. Recover your expansion slot cover if you are using the Wireless PCI Card.

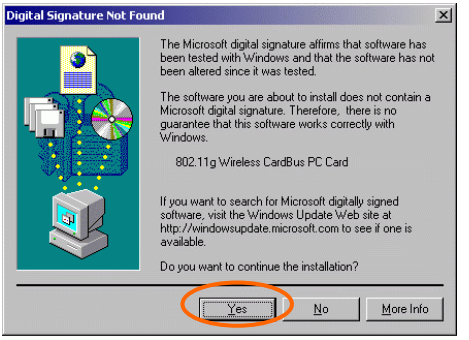
Note for Windows 98 users:

Before installation of the device, make sure you have your operating system CD-ROM at hand. You may be asked to insert the OS CD-ROM in order to download specific drivers.

[1] If you are using the Wireless PCI Card, the product descriptions shown on the screen will differ from the illustrations shown in this document. Please discard the discrepancy and follow the installation procedures to continue anyway.

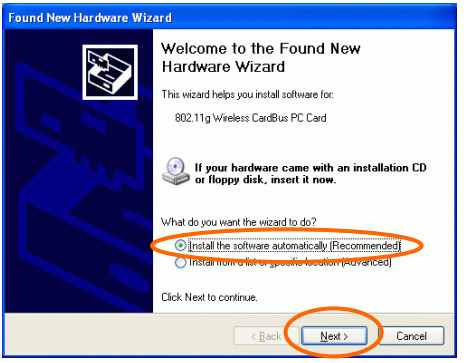
Note for Windows 2000 users:

During the installation, when the "**Digital Signature Not Found**" screen appears, click "**Yes**" to continue.

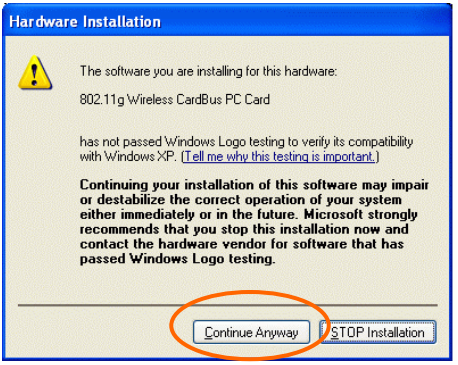


Note for Windows XP users:

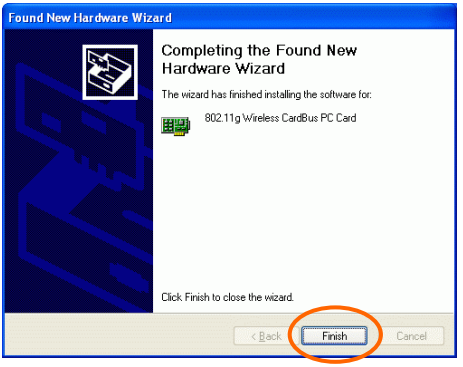
1. Select **Install the software automatically (Recommended)** and click **Next.**



3. Click **Continue Anyway.**



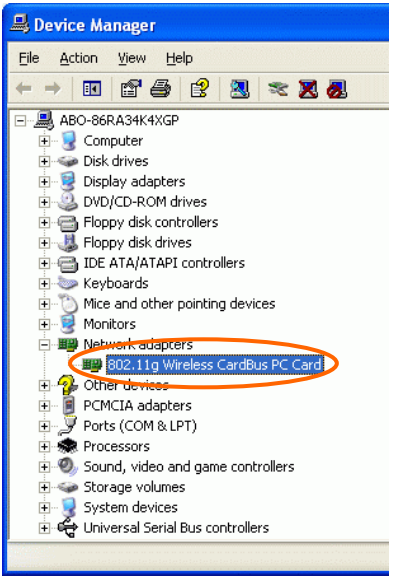
4. Click **Finish** to complete the installation.



Verify Device Installation

To verify that the device has been properly installed in your computer and is enabled, go to **Start → Settings → Control Panel → System (→ Hardware) → Device Manager**. Expand the **Network adapters** item. If

the **802.11g Wireless PCI/CardBus PC Card** is listed, it means that your device is properly installed and enabled.

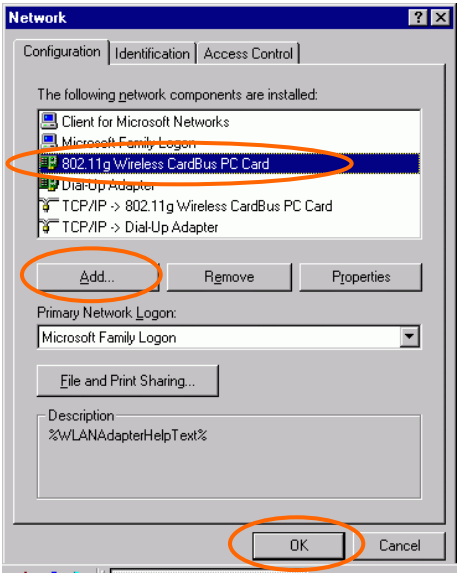


NETWORK CONNECTION

Once the driver has been installed, you will need to make adjustments to your network settings.

In Windows 98/ME

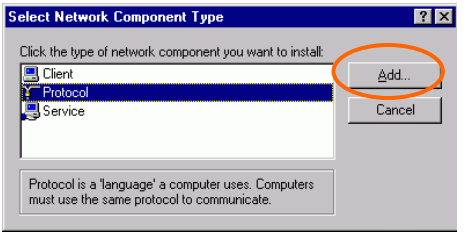
1. Go to **Start → Settings → Control Panel → Network**.
2. Make sure that you have all the following components installed.



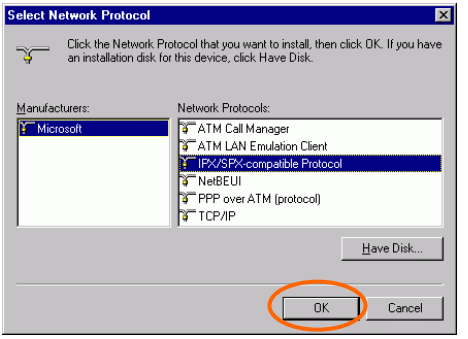
- **802.11g Wireless PCI / CardBus PC Card**
- **IPX/SPX-compatible Protocol**
- **NetBEUI**
- **TCP/IP**

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

3. Next, highlight the specific network component you need, click **Add**.

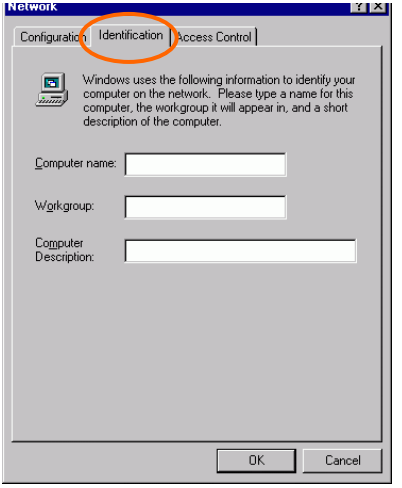


4. Highlight **Microsoft**, and then double click on the item you want to add. Click **OK**.

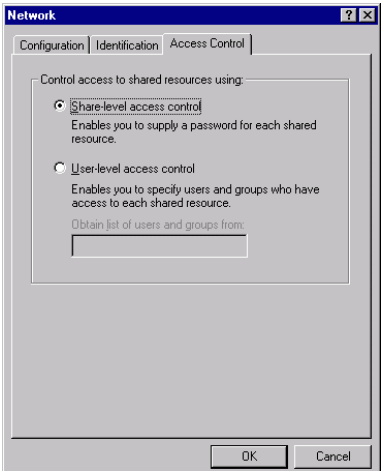


After returning to the Network screen, you can make your computer is visible on the network by enabling the **File and Print Sharing**.

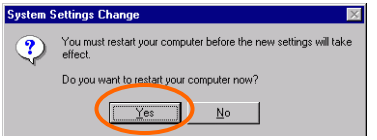
5. Click the **Identification** tab. Enter a name that is unique on the network. Type the name of your workgroup, which should be the same name used by all of the other PCs on the network.



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



7. When finished, restart your computer to activate the new device.



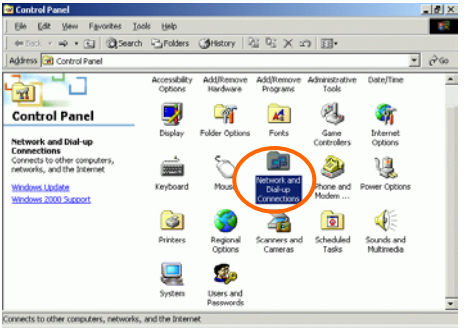
8. Once the computer has been rebooted, a **Logon** window will appear and will require you to enter a username and password. Enter a username and password and click **OK**. Do not click the **Cancel** button, or you won't be able to log onto the network.
9. Double-click the **Network Neighborhood** icon on the windows desktop, and you should see the names of the other PCs on the network.

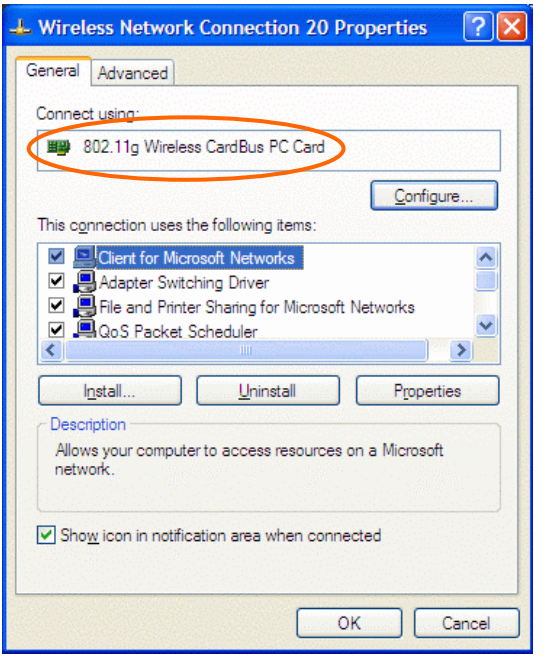
In Windows 2000/XP

1. (In **Windows 2000**)

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

   (In **Windows XP**)
   Go to **Start → Control Panel → Network Connections → Wireless Network Connection Enabled 802.11g Wireless PCI/CardBus PC Card → Properties**.

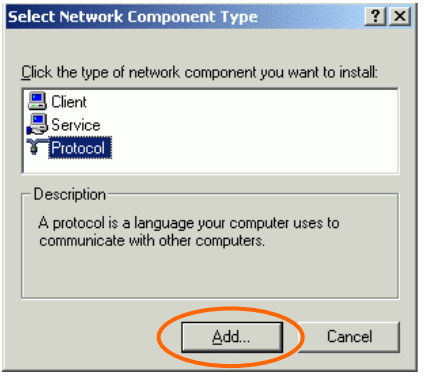




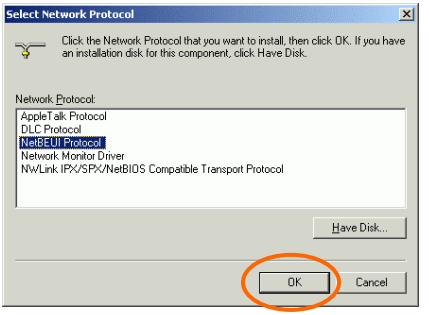
2. Make sure that you have all the following components installed.
   - **Client for Microsoft Networks**
   - **NWLink NetBIOS**
   - **NWLink IPX/SPX/NetBIOS Compatible Transport Protocol**
   - **Internet Protocol (TCP/IP)**

   If any components are missing, click on the **Install…** button to select the **Client/Service/Protocol** required.

3. After selecting the component you need, click **Add…** to install.



4. Select the network protocol you wish to add and click **OK**. This will return you to the **Local Area Connections Properties** window.



5. To allow your computer to be visible on the network, make sure you have checked off the **File and Printer Sharing for Microsoft Networks**.
6. When finished, you must restart your computer to complete the installation.