Then you will see the Wireless LAN Utility icon in the Windows taskbar:

Using Wireless Utility In Windows XP



There are two ways to configure PCI Wireless Network Adapter. One is Wireless LAN Utility; the other one is Windows Wireless Network Configuration.

Use Windows Wireless Network Configuration

1. Click the right key of the mouse and Exit Wireless LAN Utility.



2. Click Windows Wireless Network Configuration icon.



Windows Wireless Network Configuration

3. Click Advanced button.



4. Make sure "Use Windows to configure my wireless network settings" and click OK.

neral	Wireless Networks	Authentication	Advanced
Use	e <u>W</u> indows to configur	e my wireless net	work settings
Avail	able networks:		
	onnect to an available	network, click C	onfigure.
Å	WLAN	^	Configure
1.000	NDTESTWEPO		Defeat
Å	AP1000	~	R <u>e</u> fresh
belo	AY:		Move <u>up</u>
			Move down
			and the second s
	Add	ve Pr <u>o</u> per	

5. Click the Windows Wireless Network Configuration icon again to open the Windows Wireless Network Configuration.



Windows Wireless Network Configuration

6. Select an available network and click Connect button.

Connect to Wireless Network
The following network(s) are available. To access a network, select it from the list, and then click Connect.
Available <u>n</u> etworks:
This network requires the use of a network key (WEP). To access this network, type the key, and then click Connect.
Network key:
If you are having difficulty connecting to a network, click Advanced.
Advanced Cancel

7. The Windows Wireless Network Configuration will be enabled. Click the Windows Wireless Configure icon.



Windows Wireless Network Configuration is enabled

8. Click Properties to start Windows Wireless Network Configuration.

★ Wireless Network	Connection 9 Status 💦 🛛 🛛
General Support	
Connection	
Status:	Connected
Duration:	01:01:59
Speed:	11.0 Mbps
Signal Strength:	T
Activity	Sent — 🔍 — Received
Packets:	329 14
	Disable

Use Wireless LAN Utility

1. Exit the Wireless LAN Utility.



2. Click Windows Wireless Network Configuration icon.



Windows Wireless Network Configuration

3. Click Advanced button.



4. Don't select "Use Windows to configure my wireless network settings" and click OK button.

eneral	Wireless Networks	Authentication	n Advanced
Availa	Windows to configur able networks:		
1	WLAN NDTESTWEPO AP1000		Configure
-	rred networks: matically connect to a v:	vailable networ	ks in the order listed
Autor	matically connect to a	vailable networ	ks in the order listed Move <u>up</u>
Autor	matically connect to a	vailable networ	
Autor	matically connect to a		Move <u>up</u>

5. Click Start -> All Programs -> IEEE802.11b WLAN PCI Card then click IEEE802.11b WLAN PCI Card Utility to restart the Wireless LAN Utility.

Administra	ator			2
Internet Internet E-mail Outlook Express Paint MSN Explorer	My Documents R Activate Windows Windows Catalog Windows Update Image: Accessories Image: Games Image: IEEE802.11b WLAN PCI Card	ts + + +	IEEE802.11b WLAN PCI Card Utility	
Windows Media Playe Windows Movie Make Tour Windows XP	🛅 Startup 🥭 Internet Explorer		Uninstall	
≇ start	Log Off O Turn Off C	omputer		12:33 AM

6. The Wireless LAN Utility will appear, Double-click the icon to open the configuration utility.



7. Click Re-Scan button to start Wireless LAN Utility. (Refer to Configuring the PCI Wireless Network Adapter.)

IEEE802.11b WLAN PCI Card Utility
Link Info Configuration Site Survey Encryption Advanced About
State Scanning Current Channel Re-Scan Current Transfer Rate Mbps Current Service Set Identifier Throughput (Bytes/Second) Transmitted Received
Link Quality: Signal Strength:
OK Cancel Help

Use Wireless LAN Utility In Windows 95, 98, 2000, NT 4.0 and ME



Wireless LAN Utility icon

lcon	Meaning
ers E	Green: indicates a connection is linked to a wireless network.
<u>.</u>	Red: indicates that the wireless LAN card is looking for an available access point.

Double-click the icon to open the Wireless LAN Utility. (Refer to Configuring the PCI Wireless Network Adapter.)

Configuring the PCI Wireless Network Adapter

1. This screen shows you the status of your current connection. Click **Re-Scan** to search for wireless connection (the adapter will search for the connection automatically when it is activated).

IEEE802.11b WLAN PCI Card Utility
Link Info Configuration Site Survey Encryption Advanced About
State Connected - BSSID = 00-02-DD-30-18-A8 Current Channel 11 Re-Scan Current Transfer Rate 11 Mbps Current Service Set Identifier WLAN Throughput (Bytes/Second) Transmitted Received 0 551
Link Quality: Excellent (100%) Signal Strength: Excellent (100%) OK Cancel Help

2. Select the "Configuration" tab. The profile setting allows you to save configurations in different profiles for different working environments. The default profile will contain the initial configuration setting when you install the Card. Under the Operating Mode drop-box, you may choose either Infrastructure or Ad-Hoc. The Infrastructure mode allows a wireless adapter to communicate with a wired network employing an Access Point, while the Ad-Hoc mode allows wireless-to-wireless, peer-to-peer communication. If you choose Infrastructure, the SSID should have the same name as the Access Point. If you choose Ad-Hoc, all clients should share the same SSID name. You may also select which Transfer Rate you wish to use: 1, 2, 5.5, 11Mbps or Auto Rate. Under Power Saving Mode, you can select Enabled to allow your adapter to go to sleep mode while the adapter never go to sleep mode. Click Apply to save the settings.

EE802.11b WLAN PCI Card Utility
Link Info Configuration Site Survey Encryption Advanced About
Profile default Remove Create Activate
Configuration
Operating Mode
Service Set Identifier (SSID) any
Transfer Rate Auto Rate
Channel 6
Power Saving Mode Disabled 💌
Restore Defaults Undo Changes Apply Changes
OK Cancel Help

3. Select the "Site Survey" tab. The list on the adjacent screen shows you available Access Points and their features. Click on the desired Access Point, then click **Connect** to connect or **Search** to search for more Access Points. Click **OK** when you are finished.

EE802.11b WL	AN PCI Ca	rd Utility				>
Link Info Cont The list cont update the lis Access Poin the specified	ains availab st, click 'Sea t from the lis	e Access arch' butto t, and click	' Points a n. You d	and their f	eatures. To t a desired	
SSID	BS	SID		Signal	Channel	WEP
WLAN	-00	02-DD-30-	18-A8	100%	11	No
					1	F
[Search		(Connect		
	1		14			

4. Click on the "Encryption" tab. Under the drop-box, you can choose to have WEP encryption Disabled, 64-Bit, or 128-Bit. Wired Equivalent Privacy (WEP) is an encryption scheme used to protect wireless data communication. The Disabled setting prevents the sharing of data with other computers on the WEP network. For data sharing to be enabled, select the level of encryption desired, either 64 or 128-bit.

	encryption settings must match those of your network, or your uter will be unable to communicate.
comp	Encryption (WEP) Disabled
10.000	P Key Entry Disabled 64 Bits 128 Bits 128 Bits
	Passphrase
6	Manual Entry 🗖 ASCII
	Key 1 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
	Кеу 2
	Кеу 3 Пискооссионование
	Кеу 4 инжинининининининин
	Default Tx Key 1
Ĩ	Restore Defaults Undo Changes Apply Changes

5. Select the "Advanced" tab. You can choose the fragmentation threshold to define the maximum data frame size your adapter will transmit. When the packet error rate is high, you may set the threshold value to transmit shorter frames. You may select RTS/CTS threshold to define when will your adapter send out RTS/CTS frames to reserve bandwidth for transmission. By using the RTS/CTS function, you may request bandwidth from AP to allow you have better chance to send out your data. For the Security, it's only applicable while WEP is enabled. For the Authentication Type, the current supported algorithms are Open System, Shared Key, and Auto. The algorithm will be invoked when associated to Access Point. To associate to the desired Access Point you must set the same algorithm as the one of the desired Access Point. When select Auto mode, the driver can auto detect the Authentication Type, which is for framing synchronization. The possible settings are Long and Short. The setting must be the same as the setting of the Access Point you are going to associate.

ink Info Configuration Site S	tility
Transmit Threshold Control –	
Fragmentation Threshold (Disabled)	2432
RTS/CTS Threshold (Disabled)	2432
Authentication Ty	pe Auto 💌
Preamble Type Long	<u>·</u>
Restore Defaults Un	ndo Changes Apply Changes

6. The "**About**" tab shows you copyright and version information about the driver, the configuration utility, and the firmware. Click **OK** to complete the configuration.

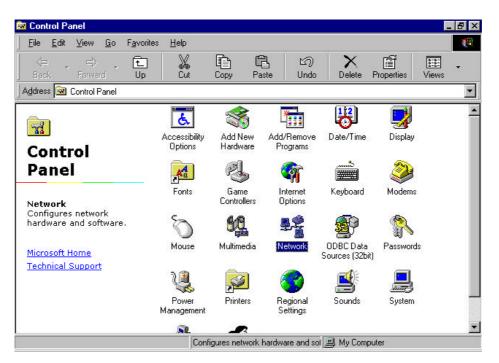
IEEE802.11b WLAN PCI Card Utility	×
Link Info Configuration Site Survey Encryption Advanced About	
Copyright (c) 2002, All rights reserved. IEEE802.11b WLAN PCI Card Utility	
┌ Driver	
Version: 1.7.29.1032	
Configuration Utility Version: 2.97.3.2	
Firmware Versions: 1.03.04.00	
OK Cancel Help	

Chapter 5 – Installing Network Protocols

Protocols are necessary for computers to be recognized on your network. Windows 2000 users need to check their Windows User Guides for protocol installation.

Installing the Network Protocols for Windows 98 and Millennium

1. From the **Start** Menu, select **Settings** and bring up the **Control Pane**l. From the Control Panel, double-click on the **Network** icon.



Note: Before adding any network protocols, verify that the protocol is not already installed. Never install duplicate protocols.

2. Select IEEE802.11b WLAN PCI Card v2.5 from the list and click the Add button.

etwork	? ×
Configuration Identification Access Control	
The following network components are installed:	
	11020
Elient for Microsoft Networks	^
IEEE802.11b WLAN CF Card v2.5	
IEEE802.11b WLAN PCI Card v2.5	
Realtek RTL8139(A/B/C/8130) PCI Fast Eth	ernet NIC 💽
Add Remove	Properties
Primary Network Logon:	
Client for Microsoft Networks	•
-	
File and Print Sharing	
- Description	
A network adapter is a hardware device that ph	ysically
connects your computer to a network.	
ОК	Cancel
01	Cancor

3. Highlight **Protocol** and click the **Add** button.

ck the type of network component you want to install: Client	Add
Adapter	
Protocol	Cancel
Service	
Protocol is a 'language' a computer uses. Computers nust use the same protocol to communicate.	1

4. Select **Microsoft** from the list of "Manufacturers" and **TCP/IP** from the list of "Network" Protocols" and click the **OK** button to finish the installation.

	vork Protocol that you want to install, then click OK. If you have disk for this device, click Have Disk.
Manufacturers:	Network Protocols:
Genyan Generation Microsoft Generation Novell	 Microsoft 32-bit DLC Microsoft DLC NetBEUI TCP/IP WAN support for ATM Winsock2 ATM Service Provider
	<u>H</u> ave Disk
2	OK Cancel

Appendix A – FAQ

1. What is IEEE 802.11 standard?

The IEEE 802.11 is a wireless LAN industry standard, and the objective of IEEE 802.11 is to make sure that different manufactures' wireless LAN devices can communicate to each other.

2. What is WEP?

As described in the IEEE 802.11 standard, WEP (Wired Equivalent Privacy) is a data privacy mechanism based on a 40 bit shared key algorithm.

3. My desktop PC cannot recognize the Wireless Network PCI Adapter.

- Please make sure that the Adapter is inserted into the PCI slot of your desktop PC properly (check this when the PC is powered off).
- And also make sure that the PCI controller is enabled in the BIOS of your desktop PC.
- > Try installing the card in a different PCI slot.

4. In Infrastructure mode, my desktop PC cannot communicate with the others PCs on the network.

- First, make sure that the SSID is same as the others PC.
- Check if the WEP is enabled on the Access Point, if it is, set your Adapter's WEP the same as the Access Point.
- Also check the Access Point's Authentication Type and Preamble Type and match those settings.

5. In ad-hoc mode, my desktop PC cannot communicate with the others PCs on the network.

- Make sure the SSID and the Channel number are the same as other wireless stations.
- > Check if WEP settings are the same in all wireless stations.
- Check the Network Properties, make sure proper protocol is installed and File and Printer Sharing is enabled.

Appendix B – Specifications

Standards:	IEEE 802.11b PCI Local Bus 2.1 Compliance
Channels:	11 Channels (US, Canada) 13 Channels (Europe) 14 Channels (Japan)
Antenna:	Dipole antenna with reversed SMA Connector
Frequency:	2.4 to 2.4835GHz (Industrial Scientific Medical Band)
Data Rate:	up to 11Mbps
Operating Ranges:	Indoor (varies depends on the environment): Up to 50M @ 11Mbps Up to 80M @ 5.5Mbps Outdoor (varies depends on the environment): Up to 150M @ 11Mbps Up to 300M @ 5.5Mbps
Temperature:	Operating: 0° ~ 55° C Storage: -25° ~ 70° C
Humidity:	10% to 90% (non-condensing)