802.11b Wireless 16bit PC Card

User Manual

M73-APO01-xxx

REGULATORY STATEMENTS

FCC Certification

This model 802.11b Wireless PC Card (WB1500) must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. 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.

Warring: Changes or modifications not expressly approved by party responsible for compliance could void the user the user authority to operate the equipment.



CAUTION:

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

U.S Service Center:

D-LINK CORPORATION 53 DISCOVERY DRIVE, IRVINE CA 92618, USA TEL: 714-788-0805

Table of Contents

INTRODUCTION1
WIRELESS BASICS1
802.11B WIRELESS 16BIT PC CARD1
FEATURES2
WIRELESS NETWORK OPTIONS
The Peer-to-Peer Network
The Access Point Network4
LED INDICATORS
Link: Orange (On/Blink)5
Act: Green (ON/OFF)5
HARDWARE INSTALLATION6
SOFTWARE INSTALLATION7
INSTALLATION FOR WINDOWS 95 (OSR2)7
INSTALLATION FOR WINDOWS 9811
INSTALLATION FOR WINDOWS ME15
INSTALLATION FOR WINDOWS 200018

INSTALLATION FOR WINDOWS XP22	2
NETWORK CONNECTION	5
CONFIGURING THE NETWORK PROTOCOLS FOR	
WINDOWS 95 (OSR2)/98/ME/2000	5
CONFIGURING THE NETWORK PROTOCOLS FOR	
WINDOWS XP)
CONFIGURATION UTILITY	2
NETWORK STATUS ICON & ICON MENU32	2
The Status Icon	2
Icon Menu	3
STATUS	1
CONFIGURATION	5
ENCRYPTION	3
SITE SURVEY)
About	l
CONFIGURATION FOR WINDOWS XP42	2
SPECIFICATIONS	3

Introduction

Wireless Basics

Compliant with IEEE 802.11b, the 802.11b Wireless 16bit PC Card provides an ideal solution for users to enjoy the instant connectivity via a wireless local area network (LAN). A wireless LAN is like a regular LAN, except that you can share information anywhere without looking for a place to plug in, and augment networks without installing or moving Based on radio frequency (RF) wires. technology, a wireless LAN transmits and receives data over the air, along with the guarantee to ensure privacy and noninterference by the use of separate radio frequency.

802.11b Wireless 16bit PC Card

The 802.11b Wireless 16bit PC Card lets you take full advantage of your PC's mobility with access to real-time information and online services anytime and anywhere. Plus, with the network installation's simplicity and flexibility, you can eliminate the needs to pull cable through walls and ceilings and allow the network to go where wires cannot go. Exploring WWW and augmenting networks can never be done more easily.

Features

- Compliant with IEEE 802.11b standard for 2.4GHz Wireless LAN
- Compliant with PCMCIA Type II
- Supports PC Card hot swap and true Plug & Play
- Works with all existing network infrastructure
- Compatible with specific wireless products and services
- Capable of up to 128-Bit WEP Encryption Protocol
- Freedom to roam while staying connected
- 11 Mbps High-Speed Transfer Rate
- Rich diagnostic LED indicators with Integrated Antenna
- Compatible with Window 95(OSR2)/98/ 2000/ME/XP
- Lower power consumption
- 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 PC 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 PC Cards, you can connect wireless LAN to a wired global network via an **Access Point**.



LED Indicators

Link: Orange (On/Blink)

Access Point Mode

Grow – linking to an Access Point.

Blink – searching for Access Points in the networks.

Peer-to-Peer Mode

Grow – 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)

Transmitting/receiving wireless data

Hardware Installation

- 1. Locate the PCMCIA slot of your system.
- 2. Align the Wireless PC Card toward the PCMCIA slot. Push evenly and steadily until it is seated.
- 3. You are now ready to continue the software installation.

Software Installation

Installation for Windows 95 (OSR2)

1. Once the <u>Wireless LAN Adapter</u> is connected to your computer, Windows 95 (applicable for Windows OSR2 only) will automatically detect the new hardware device as shown below. Click **Next**.



- 2. Insert the device driver diskette into your floppy drive.
- 3. Windows will find the driver for this device automatically. Click **Finish**.

Update Device Driver Wizard		
	Windows found the following updated driver for this device: Wireless LAN PC Card If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations. Location of Driver	
~		
	< Back Finish Cancel	

While copying the necessary files into your system, Windows prompt a message asking for the Wireless LAN Install Disk. Click OK to proceed.

langer e	ize 🗾
8	Please insert the disk labeled 'Wireless LAN Install Disk', and then click OK.
	OK)

Note that you have to direct Windows to copy the needed files from the **root directory (A:)**.

Copying	Files	×
_	The file 'PRISMIOC.dll' on Wireless LAN Install Disk could not be found. Insert Wireless LAN Install Disk into the drive selected below, and click OK.	OK Cancel
	<u>C</u> opy files from: ▲.\	<u>S</u> kip File <u>D</u> etails <u>B</u> rowse

5. When copying files is done, click **OK** when the following figure appears.

Network	×
•	You must provide computer and workgroup names that will identify this computer on the network.

Update Device Driver Wizard		
	Windows found the following updated driver for this device: Wireless LAN PC Card If you want to use this driver, click Finish. If this is not the correct driver and you want to search for a different driver manually, click Other Locations.	
	Other Locations	
	< <u>B</u> ack Finish Cancel	

6. The Wireless LAN PC Card Properties window will appear. The modification of default settings may result in network errors. It is recommended to remain the default settings. Click OK.

Note: For the detailed ways to configure the wireless PC Card, please refer to the **Configuration Utility** section.

Driver Type Bindings Advanced
Click the type of the network driver to use:
Enhanced mode (32 bit and 16 bit) NDIS driver
C Real mode (16 hit) NDIS driver
C Real mode (16 bit) ODI driver
OK Cancel

 Windows may prompt you to insert Windows 95 CD-ROM in the selective drive.
 Please do so to have Windows copy all the necessary files to your system.

Copying Files	
Source:	
Windows 95 CD-ROM	
Destination:	
C:\WINDOWS\SYSTEM\pmspl.dll	
32%	
Cancel	

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

To finish setting up your new hardware, you must restart your con	
	Do you want to restart your computer now?
	Yes <u>N</u> o

Installation for Windows 98

1. Once the <u>Wireless LAN Adapter</u> is connected to your computer, Windows 98 will automatically detect the new hardware device as shown below. Click **Next**.

Add New Hardware Wizard		
	This wizard searches for new drivers for:	
	Wireless-LAN Adapter	
	A device driver is a software program that makes a hardware device work.	
8		
	< Back Next > Cancel	

2. Insert the device driver diskette into your floppy drive. Click Next.

Add New Hardware Wizard	
	 What do you want Windows to do? Search for the best driver for your device. (Recommended). Display a list of all the drivers in a specific location, so you can select the driver you want.
	< <u>B</u> ack Next > Cancel

3. Select Floppy disk drives and click **Next**.

Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search. Floppy disk drives CD-ROM drive Microsoft Windows Update Specify a location: A:\ Browse
< <u>B</u> ack Next> Cancel

- 4. Click **Next**.
- The Wireless LAN PC Card Properties window will appear. The modification of default settings may result in network errors. It is recommended to remain the default settings. Click OK.

Note: For the detailed ways to configure the wireless PC Card, please refer to the **Configuration Utility** section.

Add New Hardware Wizard		
	Windows driver file search for the device:	
Wireless LAN PC Card Properties	? ×	
Driver Type Bindings Advanced	ll the best driver driver, or click N	for this de∨ice. ext to continue.
Click the type of the network driver to use		
Enhanced mode (32 bit and 16 bit) NE		
C Real mode (16 bit) NDIS driver		
C Real mode (16 bit) ODI driver		
	Next >	Cancel
	OK ancel	

6. Windows may prompt you to insert **Windows 98** CD-ROM in the selective drive. Please do so to have Windows copy all the necessary files to your system. When the following window appears, click **Finish**.



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

System S	Settings Change 🛛 🔀
?	To finish setting up your new hardware, you must restart your computer.
\sim	Do you want to restart your computer now?
	Yes <u>N</u> o

Installation for Windows ME

 Once the <u>Wireless LAN Adapter</u> is well connected to your computer, Windows ME will automatically detect the new device. Select Specify the Location of the driver... and click Next.



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

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Search for the best driver for your device. Removable Media (Floppy, CD-ROM) Specify a location: D:\VIA_4INI\AGPME Browse O lisplay a list of all the drivers in a specific location, so you can select the driver you want.
< <u>B</u> ack Next> Cancel

- 3. Click Next.
- 4. The Wireless LAN PC Card Properties window will appear. The modification of default settings may result in network errors. It is recommended to remain the default settings. Click **OK**.

Note: For the detailed ways to configure the wireless PC Card, please refer to the <u>Configuration Utility</u> section.

INTERESS FAILED COMPANY AND A	• • •
Update Device Driver Wizard	
Windows driver file search for Wireless LAN PC Card	the device:
Wireless LAN PC Card Properties 2 X	1
Configuration Encryption	est software for this device.
Click the type of the network driver to use:	
C Enhanced mode (32 bit and 16 bit) NDIS driver	
C Real mode (18 bit) NDIS driver	
C Real mode (16 bit) ODI driver	
	Next> Cancel
	Dise Cancel

5. Windows may prompt you to insert **Windows ME** CD-ROM in the selective drive. Please do so to have Windows copy all the necessary files to your system. When the following window appears, click **Finish**.



Installation for Windows 2000

1. Once the <u>Wireless LAN Adapter</u> 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 diskette into your floppy drive. Select Floppy disk drives and click Next.

Found New Hardware Wizard
Locate Driver Files Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
Wireless LAN_Adapter
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
optional search locations:
Floppy <u>d</u> isk drives
CD-ROM anves
\Box Specify a location
Microsoft Windows Update
< <u>Back</u> Next > Cancel

4. Click Next to continue.

Found New Hardware Wizard
Driver Files Search Results The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
Wireless LAN_Adapter
Windows found a driver for this device. To install the driver Windows found, click Next.
a:\prismnic.inf
< <u>E</u> ack <u>Next</u> > Cancel

5. Click **Yes** to continue.



6. The **Configuration** window will appear and prompt you to configure the Network PC Card's driver software, but the modification of default settings may result in network errors. It is recommended to remain the default settings. Click **Next** to proceed.

Note: For the detailed ways to configure the wireless PC Card, please refer to the <u>Configuration Utility</u> section.

Configuration				
PRISM Wireless	s Settings			
<u>P</u> rofile Name:	Default	•		
Network <u>N</u> ame:	ANY	•		
Network <u>T</u> ype:	Access Point	•		
	Peer-to-Peer <u>C</u> hannel: 11	×	<u>D</u> efaults	
Transmit <u>R</u> ate:	Fully Automatic	◄	Apply	
		< <u>B</u> ack	<u>N</u> ext >	Cancel

7. Click **Finish.** The PC Card driver installation is successfully completed.

Encryption	
Encryption (WEP security): Disabled	
C Create Keys <u>M</u> anually:	
C Alphanumeric	
C Hexadecimal	
Key <u>1</u> :	
Key <u>2</u> ;	
Key <u>3</u> :	
Key <u>4</u> :	_
C Create Keys with <u>P</u> assphrase	
Pa <u>s</u> sphrase:	Apply
	<eack cancel<="" finish="" td=""></eack>

Installation for Windows XP

1. Once the <u>Wireless LAN Adapter</u> is well connected to your computer, Windows XP will automatically detect the new device. Click **Install from a list...** and click **Next.**

Found New Hardware Wizard		
	Welcome to the Found New Hardware Wizard	
	This wizard helps you install software for:	
	Wireless LAN_Adapter	
	If your hardware came with an installation CD or floppy disk, insert it now.	
	What do you want the wizard to do?	
	Install from a list or specific location (Advanced)	
	Click Next to continue.	
	< Back Next > Cancel	

2. Insert the device Driver Disk into the floppy disk drive on your system. Select Search removable media (floppy, CD-ROM...) and click Next.

Found New Hardware Wizard
Please choose your search and installation options.
 Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: E:\
Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< <u>B</u> act Next > Cancel

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

Hardwar	re Installation
<u>.</u>	The software you are installing for this hardware: Wireless LAN PC Card has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway

4. After windows XP copies the appropriate driver to your system, the **Configuration** window will appear and prompt you to configure the Network PC Card's driver software, but the modification of default settings may result in network errors. It is recommended to remain the default settings. Click **Next** to proceed.

Note: For the detailed ways to configure the wireless PC Card, please refer to the <u>Configuration Utility</u> section.

Configuration				
PRISM Wirele	ss Settings			₹£
<u>P</u> rofile Name:	Default	•		
Network <u>N</u> ame:	ANY	•		
Network <u>T</u> ype:	Access Point	•		
	Peer-to-Peer <u>C</u> hannel:	11 ÷	<u>D</u> efaults	
Transmit <u>R</u> ate:	Fully Automatic	•	Apply	
		< <u>E</u> ac	k <u>N</u> ext >	Cancel

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

Encryption	
Encryption (WEP security): Disabled	
🔿 Create Keys <u>M</u> anually:	
C Alphanumeric	
C Hexadecimal	
Key <u>1</u> :	
Key <u>2</u> :	Use WEP Key:
Key 3:	- 1 💌
Key 4:	
C Create Keys with Passphrase	
Pagsphrase:	YIDIY
[< Back Finish Cancel

Network Connection

Configuring the Network Protocols for Windows 95 (OSR2)/98/ME/2000

 Once the driver has been installed, you must make some changes to your network settings. Click Start→Settings→Control Panel→ Network and make sure that you have all the following components installed.

Network			
Configuration Identification Access Control			
The following network components are installed: Client for Microsoft Networks Client for NetWare Networks Wireless LAN PC Card FIPX/SPX-compatible Protocol NetBEUI TCP/IP File and printer sharing for Microsoft Networks			
Add Remove Properties Primary Network Logon:			
Client for Microsoft Networks			
Description A network adapter is a hardware device that physically connects your computer to a network.			
OK			

- Wireless LAN PC Card
- 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. After clicking **Add**, highlight the component you need, click **Add**, highlight Microsoft, and then double click on the item you want to add.

For making your computer visible on the network, enable the **File and Printer Sharing**.

Click the **Identification** tab. Make up 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.

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."



When finished, reboot your computer to activate the new device.

Once the computer has restarted and Windows has booted up, a **Logon** window will appear and require you to enter a username and password. Make up a username and password and click **OK**. Do not click the **Cancel** button, or you won't be able to log onto the network.

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

Configuring the Network Protocols for Windows XP

Once the driver has been installed, you must check if some necessary network components are well setup in your computer. Click Settings \rightarrow Control Panel \rightarrow Network Connections \rightarrow Wireless Network Connection Enabled Wireless LAN PC Card \rightarrow Properties.

neral Support	
Connection	
Status:	Connected
Duration:	00:05:33
Speed:	11.0 Mbps
Signal Strength:	T
Activity Se	ent — 🕺 — Received
Packets:	45 12
<u>Properties</u>	able

Make sure that you have all the following components installed.

Client for Microsoft Networks

IPX/SPX-compatible Protocol

TCP/IP

wirel	ess Network Connection Properties	?
ieneral	Wireless Networks Authentication Advanced	
Connec	ot using:	
	Wireless LAN PC Card	
This c <u>c</u>	nnection uses the following items:	
	File and Printer Sharing for Microsoft Networks QoS Packet Scheduler Internet Protocol (TCP/IP)	
	I <u>n</u> stall <u>U</u> ninstall <u>Pr</u> operties	2
Allov Allov	ription vs your computer to access resources on a Microsoft vork.	
13 million -		
🗹 Sho	ow icon in notification area when connected	

If any components are missing, click on the **Install...**button to select the **clients/service/ protocols** required. After selecting the component you need, click **Add...**to add it in.

For making your computer visible on the network, enable the **File and Printer Sharing**.

Select Network Component Type 🛛 🛛 🔀
Lick the type of network component you want to install:
Protocol
Description
A protocol is a language your computer uses to
communicate with other computers.
Add Cancel

When finished, you must restart your computer to complete installation.

Configuration Utility

After installing the Wireless PC Card's driver successfully, the **Network Status** icon will appear in the taskbar.

Note: Except for the following configuration utility, using Windows to configure the wireless network settings in the **Windows XP** is recommended. (Please skip to the **Configuration for Windows XP** section)

Network Status Icon & Icon Menu

The Status Icon

Icon	Link Status
4	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 the wireless PC Card, move the cursor over the status icon, as shown below.



<u>Icon Menu</u>

After clicking on the icon, the icon menu as displayed below will prompt you to configure the wireless PC Card.



Items	Description	
Wireless Radio On	These two items allows	
Wireless Radio Off	you to enable or disable	
	the wireless radio.	
Remove Status	Removes the icon from	
Icon	the taskbar. Each time	
	you power on your PC,	
	the icon will reappear.	
Wireless Network	Clicking these items will	
Status	launch the Wireless	

Advanced	Settings window, as
Configuration	described below.
WEP Encryption	
Version	
Information	

Status

The **Status** tab provides you the status of the wireless PC Card.

Default - PRISM Wireless Settings	×
Status Configuration Encryption Site Survey About	
State: Associated - 00:04:76:28:78:28	
Current Tx Rate: 11 Mbits/sec	
Current Channel: 6 Disable Radio <u>R</u> escan	
Throughput (bytes/sec): Tx: 0 Px: 610	
Link Quality: Fair (46%)	
Signal Strength: Fair (40%)	
OK Cancel Apply	

State

Displays the connection state of the wireless PC Card with the wireless network.

Current Tx Rate

Displays the current transfer rate.

Current Channel

Displays the channel that is currently used by the wireless PC Card.

Disable Radio

Disables the wireless radio. The wireless PC Card will disconnect with the wireless network.

Rescan

Forces the radio to rescan all available channels. While the link quality is poor, clicking on the button to search for a better connection.

<u>Throughput</u>

Displays the transferring (Tx) and receiving (Rx) data rate in bytes per second.

Link Quality and Signal Strength

Displays the quality and strength of the connection between the wireless PC Card and the Access Point it connects.

Configuration

The **Configuration** tab allows to set parameters for the wireless PC card.

Default - PRISM W	ireless Settings	×
Status Configurat	ion Encryption Site Survey About	
<u>P</u> rofile Name:	Default	
Network <u>N</u> ame:	ANY	
Network <u>T</u> ype:	Access Point Peer-to-Peer Channel: 11 Defaults	
Transmit <u>R</u> ate:	Fully Automatic	
	OK Cancel Apply	

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 (SSID)

A specific name shared among connected wireless PC 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 and click on the **Apply** button.

<u>Network Type</u>

The Network Type setting determines the arrangement of your wireless network. The supported modes displayed are Access Point and Peer-to-Peer.

- Access Point The default settings. This mode lets you connect the wireless LAN to a wired and existed network via an Access Point.
- Peer-to-Peer The mode is used for sharing information between wireless PC Cards without Access Points.

Note: For the detailed illustration about Access Point and Peer-to-Peer modes, please refer to the <u>Wireless Network</u> <u>Options</u> section.

Transmit Rate

The default setting is **Fully Automatic**. There are other options, 5.5Mb, 11Mb, Auto 1Mb or

2Mb. For best performance, it is recommended to remain the **Fully Automatic** setting.

Peer-to-Peer Channel

To communicate with other wireless PC 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.

The field is grayed out in Access Point mode.

Defaults

Clicks the button to restore to the default 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.

Default - PRISM Wireless Settings	×
Status Configuration Encryption Site Survey About	
Encryption (WEP security): Disabled	
C Create Keys <u>Manually:</u> 64 bit	
C Alphanumeric	
O Hexadecimal	
Key <u>1</u> :	
Key <u>2</u> ;	
Key <u>3</u> ;	
Key <u>4</u> :	
C Create Keys with <u>P</u> assphrase	
Pagsphrase:	
OK Cance	el <u>Apply</u>

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.

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.

<u>Apply</u>

Once you set up the encryption (WEP), click on the **Apply** button 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.

Default - PRISM Wireless Settings	s X	
Status Configuration Encryption Available Networks: To connet to an available network, o	Site Survey About	
A316 Rescan A316 IEEE 802.11 LAN Connect		
Site Information		
Network Name: abocom	Network Type: Access Point	
BSSID: 00-60-B3-16-1F-AF	WEP Encryption: NO	
Channel: 1	Signal Level: -74 dBm	
01	Cancel Apply	

Rescan

Searches for all available networks. Clicking on the button, the PC Card will start to rescan and list all available sites in the left box.

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 S	Survey Abo	ut]
Wireless Corporation		
PRISM Wireless LAN		
Copyright©2001 Wireless Corporation		
- Network Driver		
Version: 1.07.37	Date:	Mar 29 2002
Configuration Utility		
Version: 1.07.37	Date:	Mar 26 2002
NIC Firmware		
Version: 1.04.02.00	Address:	00.12.34.12.34.68
OK		Cancel Apply

Configuration for Windows XP

- 1. Go to Start → Control Panel → Network Connections.
- 2.InNetworkConnectionswindow,right-clicktheWirelessNetworkConnectionsicon, and select Properties.



Note: Double-click the **Wireless Network Connection** icon and you can see the status of the wireless PC Card as described below.

General Support		
Connection		
Status:		Connected
Duration:		00:05:10
Speed:		11.0 Mbps
Signal Strength:		T.111
Activity	Sent — 🛃	- Received
Packets:	33	0
Properties	<u>D</u> isable	
		<u>C</u> lose

3. In Wireless Network ConnectionProperties window, select the WirelessNetworks tab.

🕹 Wireless Network Connection 4 Properties 👘 🕐 🔀		
General Wireless Networks Authentication Advanced		
Use Windows to configure my wireless network settings		
Available <u>n</u> etworks:		
To connect to an available network, click Configure.		
Pabocom <u>C</u> onfigure		
A 3Com Refresh		
Preferred networks: Automatically connect to available networks in the order listed below.		
Move <u>d</u> own		
Add <u>R</u> emove <u>Properties</u>		
Learn about <u>setting up wireless network</u> <u>configuration.</u> Ad <u>v</u> anced		
OK Cancel		

□Use Windows to configure...

Check the box to enable windows configuration.

Note: Once you enable windows configuration, there will be only two tabs, **Status** and **About**, left in the Configuration Utility. You cannot use this utility to configure the wireless settings.

Available networks

Displays all available networks.

Configure

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

Wireless Network Properties 🛛 🔹 🔀			
Network <u>n</u> ame (SSID):	abocom		
Wireless network key (WEP)			
This network requires a ke	This network requires a key for the following:		
Data encryption (WE	☑ Data encryption (WEP enabled)		
Network <u>A</u> uthentication (Shared mode)			
Network <u>k</u> ey:			
Key <u>f</u> ormat:	ASCII characters		
Key length:	104 bits (13 characters) 🔽		
Key inde <u>x</u> (advanced);	0		
The key is provided for me automatically			
This is a <u>computer-to-computer</u> (ad hoc) network; wireless access points are not used OK Cancel			

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	PC Card Type II slot
Physical	Weight: 40 g Dimension: 119(L) x 53.94 (W) x 6.88(H) mm
Antenna	Built in the card
LED Indicators	Link: Orange Act: Green
Power	Operating Voltage: 5V
Requirement	 TX consumption: 300mA (Max) RX consumption: 200mA (Max)
	• Sleep Mode: 17 mA
Frequency Range	2.412GHz-2.4835GHz
Number of	USA, Canada: 11 channels
Selectable	Japan: 14 channels
Channels	Europe: 13 channels
Modulation Technique	Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)
Security	0/64/128 bit WEP
Spreading	11 chip Barker sequence
Bit Error rate	Better than 10 ⁻⁵
Media Access	CSMA/CA (Collision Avoidance) with
Protocol	ACK

Protocol	ACK	
Range (meter)	Standard Speed (2 Mbit/s)	High Speed (11 Mbit/s)
● Open Environment	320m	220m
Supported OS	Windows 95(OSR2)/98/ ME/ 2000/XP	
EMC Certification	 FCC Part 15, Class B in US EN300328/826 (301489-17) in Europe JATE-Telec in Japan 	