**INSTALLATION MENU** 

# Wireless LAN PC Card

2.4 GHz / 11 Mbps / DSSS

IEEE 802.11 series PC Card Operating environment: Windows 98/ME/2000/NT4

## FCC INFORMATION

The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

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 instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into and outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user should not modify or change this equipment. Modification could void authority to use this equipment.

## Notice

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### **Package Contents**

The package should contain following items:

1. The 802.11 11Mbps Wireless LAN Card.

Model Description:

The antenna of this 802.11 11Mbps Wireless LAN Card has four incorporated types, one is including a cable connected to the card, one is a flat antenna on the board, one is a directly connected to the card, the rest is two antenna directly connected.

2. The driver disk.

- 3. Menu
- 4. PCI-to-PCMCIA adapter(optional)

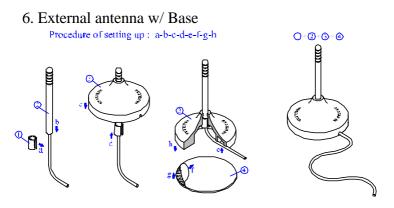


P.s. If you use a PCI-to-PCMCIA adapter, you just run the setup.exe in the folder of "PCI" in the driver disc first. When the setup program finished, plug the adapter to your pci slot. Your computer will find this peripheral.



Plugging the PCI-to-PCMCIA adapter to your computer's PCI slot.

5. If you use an ISA-to-PCMCIA adapter, the installation procedure is basically the same as above. Sometimes, some adapter is not Plug-and-Play, so you must install it manually. In this situation, you should be aware the chip set that adapter uses.



### Hardware Installation Guide

## Note, for NT, you shouldn't insert the card into your PC before you install the driver , because NT is not plug and play!!

**Step1** –Turn on the Notebook/Desktop PC, and waiting for Win98/ME/2000/XP boots-up.

**Step2** – Insert the 802.11 11Mbps Wireless LAN Card into one of build-in PCMCIA slots of your Notebook/Desktop PC.



**Step3** –The windows98/ME/2000/XP will show the message as below to indicate that there is a new device found.

ps Wireless LAN Card	
	1
0%	
Cancel	

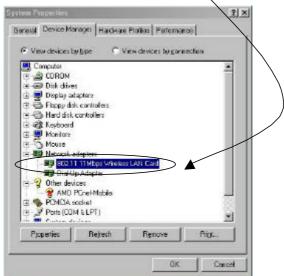
Then, windows98/ME/2000 will need you to show it the directory where the driver CD is, it should be shipped with the card. For XP, it will find it automatically.

And sometimes, it will need some window system files. You just show it where can find you original Winodw98/ME/2000/XP CD-ROM.

In Windows 2000/XP, it will ask you if proceed without digital signature, press "yes" button to go next.

**Step4** –Wait a moment, window98/ME/2000/XP will show that it has finished the installation of 802.11 11Mbps Wireless LAN Card.

**Step5** –Next, go to the "control panel" "system" "device manager", you will see something like below.



If you don't see exclamation mark in front of the icon of "802.11 11Mbps Wireless LAN Card", it means O.K.

In general, you want to see your network neighbors, it's better to have both of TCP/IP and NetBEUI network components included

in you window's network configuration. For windows98/ME, in "Control panel" "network" "configuration", you should look both, just like below.

twork	1
Configuration   Identification   Access Control	
The following network components are installed:	
NetBEUI -> 802.11 11Mbps Wireless LAN Card     NetBEUI -> Access Point Client     NetBEUI -> Access Point Client ISA     TCP/IP -> Access Point Client     TCP/IP -> 802.11 11Mbps Wireless LAN Card	
TCP/IP -> 802.11 11Mbps wireless LAN Card	•
Add Remove Proper	ties
Primary Network Logon:	
Client for Microsoft Networks	ł
<u>File and Print Sharing</u>	
- Description	
OK	Cance

For windows2000, in "Control panel" "Network and Dial-up Connections" "Local Area Connection" "Property", you should look both, just like below.

eneral		
Connect using:		
関 802.11 11Mbp	s Wireless LAN Card	
		Configure
omponents checker	d are used by this conne	
🛛 🚐 Client for Mici	osoft Networks	
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For windows XP, in "Control panel" "Network and Internet Connections" "Network Connection" "Local Area Connection", double clicks it, then in "Local Area Connection Status" "Property", you should see a page very similar to the above one. Except that you won't see "NetBEUI Protocol" on it, that's O.K.

### **Software Installation Guide**

Run the program "Prism\_ForWindows.exe" in driver CD, in Win98/ME/2000/XP. Then follows the instructions shown on the windows, you can setup the adapter to work correctly.

For NT, run setup.exe in dir of "NT\_driver", most of the installation procedure are similar to win98/ME/2000/XP, but you will see one extra page just like below when you install the driver



Just choose the first one, it will install the driver needed.

After the driver is installed completely, you must restart you NT with the card is already inserted. Then you will see that the utility is started automatically.

Be aware that in NT, if you see the PC Card status in "control panel" "PC Card", like below

PC Card (PCMCIA) Devices	? ×
Socket Status Controller	
PC cards and sockets are listed below.	
2 802.11 11Mbps Wireless LAN Card - Socket 0	
- Socket 1	
Properties	
NOTE: Turn off your computer before removing or inserting PC car	ds.
	Cancel

A question mark in from of our adapter, don't worry, it doesn't mean our adapter don't work. It's normal.

**Notice:** If you have an Access Point and want to setup your adapter in infrastructure mode, you just must know your **SSID** of your wireless LAN prior. Otherwise, must have the **SSID** and **channel** number in ad-hoc mod, the same with who you want to communicate.

### **Using Guide of Adapter Utility**

1. Once the software is installed completely, and you have restarted you window. An icon represented our adapter's utility will be shown in the system tray, just like below.



- 2. When you put your mouse pointer on it and click it. It will pop-up a tab box to let you see current adapter's link information, configuration and encryption settings.
  - 2.1 Link Info. page

SHIE PREM W	uslas: Setio;	6		
Status Configurat Statu: Associa	ion Encryption		<u> </u>	ntersil.
Current Tx Rate:	5 Mbits/s	ec	1	RISM
Current Channel	1	Disable	Radio	Bescan
Throughput (bytes/s	ed) Tx	0	- Px	1634
Link Quality	Good (73%)			
Signal Strength	Good (66%)			
		確定	取消	室用(広)

in NT

PRISM II adapter Status Utility	ļ
Link Info Configuration Encryption About	
State Annocated - 855 ID = 00 50 C2 01 50 39	
Current Disannel 7 Current Ta Rate 2 Mbits/s	
Throughput (Bytes:/zec)	
Pix 1769 Tx 1185	
Link Quality: Excellent (1.00%)	
**************	
Signal Strangh: Good (90%)	
Record	
DK Cancel Heb	_

In this Link Info page, you can see the current adapter's setting and running status.

*State:* If your adapter is associated with BSS successfully, here will show the BSS ID.

*Signal Strength: This indicates that overall signal strength of associated BSS.* 

Link Quality: This indicates that overall communication quality of associated BSS. If the link quality is low but signal to very good, it maybe signal is too strong to saturate the receiver, you should let 2 adapter stay more far away.

### 2.2 Configuration page

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Status Configur	ation   Baccyption   About		ntersil
Eraile Name:	<u>actum</u>		RISM
Network Nome:	entacRFAP		
Network Type:	Access Point	•	
	Peerty Peer©tidmet	1	Defaults
PowerSave Ena	bled 厂		
Transmit Bate	Fully Autometic	•	
	確定	取消	室用( <u>6</u> )

in NT,

Mode	Wheelbachare
951D	abcde 📃
To Role	Fully Automatic
Channel	<u> </u>
Restore D	elealis

*In this Configuration page will let you configure the adapter. Mode: there are three modes you can set.* 

Infrastructure(Access Point) -this will work only with an Access Point. All communications are done through it.

802.11 Ad-hoc(Peer-to-Peer) -this is an 802.11 compatible ad-hoc mode. All stations with the same SSID will work just like peer-to-peer, no Access point is needed.

Ad-hoc -this is very similar to above one, **but it is not** standard, only can communicate with the stations using the same driver and utility, not recommend to use.

*SSID:* stations that want to communicate with each other should set the same ssid, maximal character is 32.

*Tx Rate:* using "fully automatic" is highly recommended, the adapter will determine which rate should it use.

#### 2.3 Encryption page

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Status Configuration I Encryption (WEP secur C Course Rever Manually C Applements C Haveau crist			ntersil. PRISM
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first C Direct Level of David Pagepirmen	utrase		
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in NT,

Your enception setting or your computer will be	a must me unable to	Ach those a corere a	of your n	stwork.
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WEP Kay Entry Create with Part	phrate			-18
Patephase C NaturalEntry				
1.29 T 1-	F	-	E F	-
Key2 -	F	-	- 6	8
say 2 👘	F	1		9
Kay 4	F			
Delet Titler 1	40	04 1	0	leur
and the second			-	

In this Encryption page, it will let you transmit your data just like

in wire-secure.

First, you must choose 64 bits or 128 bits encryption you want to use.

Then, there is 2 way to generate the encryption keys. One is manual keying all the keys, the other is entering a phrase, the utility will generate all the keys for you according you phrase.

After then, choose the default Tx Key you want, in 64 bits, you can choose key 1 ~ 4. In 128 bits, there is only 1 key. At last, press the Apply button, you will make encryption works.

### **Troubleshooting:**

- 1. If windows still want you to show a directory for the installition file, just show it the directory of INF under your windows directory. Usually, it will look like this, "C:\windows\inf".
- For win98/ME/2000, sometimes, you will see an exclamation mark on icon of your network adapter when you go to "control panel" "system" "device manager". Then you double clicks on the adapter icon, you will see the adapter's properties. Clicking on the tab of "Resources", like below.

1	802.11 11Hbps Wireless LAN Card Properties 🛛 😰 🔀
	General Driver Resources
	8021111Mbp: Windex: LAN Card
	Lise automatic cettings
/	Sating based on Sate construction (004)
	Resource type Setting Instruct Register 0400 - 043# Internupt Request 05
	Change Setting
	No confects
	DK. Cancel
	nge the card' s IO setting by selecting other basic
<u>configuratio</u>	ns, remember, not making "use automatic settings" be
checked.	
$\overline{\}$	10

3. For NT, if you want to change the I/O and IRQ, go to "control panel" "network" "adapter, you will see something like below

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≜dd.	Benove	Broperties	Update
em Notes:	100-00		
uz.11 PB/SM	2 11 Mbps Adapte	M	

Clicks on the adapter, you will see next.

C000 -	
	d
Infrastructure Station	
IEEE 802.11 LAN	
Ix Rele. Fully Au	10 •
Disabled 💌	
1 Bescon Fe	
Cancel	
	10     ▼     POMCIA can       Inhestructure Station     ▼       IEEE 802.11 LAN       n/a ▼     Tx Flate:       Fully Au       Disabled       Disabled       Disabled       Disabled       T

Then you can change the IO and IRQ setting. Normally, we will suggest you that IO setting to 240, 280 or 300, and IRQ setting to 9, 10 or 11 are very common setting. But it will depend on your computer.