802.11g Wireless LAN USB Adapter

User 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 links network users to LAN services without the hassle of cabling or wiring, which significantly brings mobile workers the freedom of staying connected to the network while roaming around a building or multiple buildings maintaining access to the Internet, e-mail, networked applications, and print services.

This device is the perfect solution for your wireless network applications based on the **IEEE 802.11g** standard that offers a data rate up to **54Mbps** in a wireless LAN environment. It is a high-speed wireless network card that plugs into your notebook or desktop PC and accesses to the LAN or peer-to-peer networking easily without wires or cables. Whether you're at your desk or in the boardroom, it allows you to share printers, files, and other network resources.

The **802.11g Wireless LAN USB Adapter** is designed for a USB type A port of a laptop or desktop computer for creating a wireless workstation.

Features

- Complies with IEEE 802.11g standard for 2.4GHz Wireless LAN
- ▹ USB 2.0 compliant
- ▹ USB Plug & Play
- Interoperable with existing network infrastructure
- Secure information transmission

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- > Freedom to roam while staying connected
- Compatible with specialty wireless products and services
- > Up to 54 Mbps data rate
- > Antenna is built in the card with LEDs indication
- > Low 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.



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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**.



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LED Indicators

Power: Green (On/Off)

Glow – linking to an Access Point or Peer-to-Peer mode.

Act/Link: Green (Blink)

Blink - Transmitting/receiving wireless data.

Notice:

To comply with FCC RF exposure compliance requirements, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. No change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

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INSTALLATION

Install the Device

- 1. Plug the Wireless USB Adapter into the PC's USB port.
- 2. Once the device has been connected to your computer, Windows will detect the new hardware and then automatically copy all of the files needed for networking.

Install the Driver

In Windows 98SE

For Windows 98SE users: As you perform the installation, have your system operating CD-ROM at hand. You may be asked to insert the OS CD-ROM for the system to download a specific driver.

1. In Add New Hardware Wizard, click Next.



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2. Select Search for the best driver for your device (Recommended). Click Next.

Auu New Haluwale wiz	aiu
	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.
	< Back Next > Cancel

3. Insert the supplied CD-ROM into the CD-ROM drive. Select **Specify a location:** and click **Browse** to provide the appropriate path (e.g. **D:\Driver**). Click **Next**.

Add New Haldwale wiz	alu
	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. Eloppy disk drives CP-ROM drive Microsoft Washing the Specify a location: D-Winner
	D:\Driver
	<back next=""> Cancel</back>

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4. Click **Next**, Windows will copy all the necessary files to your system.

USB 2.0 Wireless Network Adapter
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
D:\98SE_ME\WIND502U.INF

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



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

	USB 2.0 Wireless Network Adapter
	Windows has finished installing the software that your new hardware device requires.
8	
	< Back Finish Cancel

7. When Windows prompts you to restart your computer, click **Yes**.



In Windows ME

1. Select Specify the location of the driver (Advanced), click Next.



Insert the supplied CD-ROM into the CD-ROM drive. Select Search for the best driver for your device (Recommended) and click Browse to provide the appropriate path (e.g. D:\Driver). Click Next.



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3. Click **Next**, Windows will copy all the necessary files to your system.

	Windows driver file search for the device:
	USB 2.0 Wireless Network Adapter
	Windows is now ready to install the best driver for this device, Click Back to select a different driver, or click Next to continue.
🗞 🌫	Location of driver:
	D:\98SE_ME\WIND502U.INF
~	
	< Back Next> Cancel

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



5. When Windows prompts you to restart your computer, click **Yes**.

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In Windows 2000

1. In Found New Hardware Wizard, click Next.



2. Select Search for a suitable driver for my device (recommended) and click Next.



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 Insert the device driver CD-ROM into your CD-ROM drive. Select CD-ROM drives and click Next.



4. Click **Browse** to provide the appropriate path (e.g. **D:\Driver**). Click **OK**.



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5. Click **Next** to continue.



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



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



In Windows XP

1. Select Install from a list or specific location (Advanced) and click Next.



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2. Insert the supplied **CD-ROM** into the CD-ROM drive. Select **Include this location in the search:** and click **Browse** to provide the appropriate path (e.g. **D:\Driver**). Click **Next**.



3. Click **Continue Anyway** to proceed. Windows will copy all the necessary files to your system.



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



Verify

To verify if the device exists in your computer and is enabled, go to Start \rightarrow Settings \rightarrow Control Panel \rightarrow System (\rightarrow Hardware) \rightarrow Device Manager. Expand the Network Adapters category. If the USB 2.0 Wireless Network Adapter is listed here, it means that your device is properly installed and enabled.



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Install the Utility

- 1. Insert the supplied **CD-ROM** into the CD-ROM drive. Double click on **Setup.exe** to install the **Wireless LAN Utility**.
- 2. When the **Welcome** screen appears, click **Next** to continue.



3. In **License Agreement**, click **Yes** to accept the terms.



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



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NETWORK CONNECTION

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

In Windows 98/ME

- Go to Start → Settings → Control Panel → Network.
- 2. Make sure that the following components are installed.



- 802.11b Wireless LAN CardBus (Mini-) PCI NIC
- 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. 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.

twork	1
Configuration	ntification Access Control
Windor compu compu descrip	ws uses the following information to identify your ter on the network. Please type a name for this ter, the workgroup it will appear in, and a short tion of the computer.
Computer name:	Jane
Workgroup:	WORKGROUP
Computer Description:	Jane
	OK Cancel

7. 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."

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

System	Settings Change
?	You must restart your computer before the new settings will take effect.
	Do you want to restart your computer now?

- 9. 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.
- 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. (In Windows 2000)

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

(In Windows XP)

Go to Start \rightarrow Control Panel \rightarrow Network Connections \rightarrow Wireless Network Connection Enabled USB Wireless Network Adapter \rightarrow Properties.



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ocal Area Connection Properties	? ×
General Sharing	
Connect using:	
USB Wireless Network Adapter	
, Components checked are used by this connection:	<u>C</u> onfigure
Client for Microsoft Networks Single and Printer Sharing for Microsoft Network Single and Printer Sharing for Microsoft Network Single And Printer Protocol (TCP/IP)	ks Properties
	-Tobernes
Allows your computer to access resources on a M network.	icrosoft
Show icon in taskbar when connected	
ОК	Cancel

- 2. Make sure that you have all the following components installed.
 - Client for Microsoft Networks
 - File and Printer Sharing for Microsoft Networks
 - 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.

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Select Network Component Type
Click the type of network component you want to install:
Description A protocol is a language your computer uses to communicate with other computers.
Add Cancel
Select Network Protocol
Articlastic Barton da Component, and reconnection Appler alle Protocol DLC Protocol Network Monitor Driver Network Monitor Driver NWLink IPX/SPX/NetBIDS Compatible Transport Protocol
Have Disk
OK Cancel

- 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 the installation.

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CONFIGURATION



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Use Manufacturer's Configuration Utility

After successful installation of the Wireless PC Card's driver and utility, the Configuration Utility icon will appear in the taskbar. You will be able to access the Configuration Utility through the Configuration icon.



After successful installation of the Wireless PC Card's Driver and Utility, a **Network Status** icon

🔁 will display in the system tray. Meanwhile, a

Utility Shortcut icon will appear on the desktop.

Accessing the Configuration Utility

1

Double-click on utility to open the Configuration

Utility.

Click Advanced to enter the Configuration Window.



All settings are categorized into 3 Tabs:

General Tab

Profiles Tab

About Tab

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The General tab allows you to know about the general information of Connection, Signal and Link Status.

Connected to (SSID):	ARM904	
Network Mode:	Infrastructure	
Channel / Frequency:	1 / 2.412 GHz - 802.11g 54 Mbps	
Max. Network Rate:		
Security:	Disabled	
Power Save:	Max. Performance	
Active Profile:		
Signal	Link Status	
Signal Strength: -82dBm	Link Quality: -82dBm	
Receiving O KB/sec	Received packet: 580	
Sending 0 KB/sec	Sent packet: 382	

1. Connection

Item	Description
Connected to (SSID)	
Network Mode	
Channel/ Frequency	
Max. Network Rate	
Security	
Power Save	
Active Profile	

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2. Signal

Item	Description
Signal Strength	It represents the wireless signal between the access point and the wireless PC Card.
Receiving	
Sending	

3. Link Status

Item	Description
Link Quality	It displays the link quality for the wireless connection to the access point.
Received Packet	
Sent Packet	

4. Preferences

General	General
Statistics Update Interval: 10 secs	Statistics Update Interval: [10 secs
Parameter display unit: * 35m C Percent (1)	Parameter display unit: C dBin @ Percent [3]
Scarrey Hule C Action C Passion	Scarreg Hole C Active C Paintee
- Ican Banta (1922) (abulg 7	Scarreg Hole (RE21) abig
Ach Power Save configuration Exteny operating Town Save When construct their Man Performance	Auto Planer Sens configuration Battery operating Planer Sense (Main Pediamance) When operating Planer Sense rulet, Planer Sense is alwaps on the Mainteen Planer and Sense is alwaps on

5. View Site

(1) Available AP's: 詳細顯示 AP 的狀態

ink Quality	Network Name (SSID)	Mode	Security	Channel	Bate	MAC	
-82d8m	ARM904	Infrastr	None	1	54 Mbps	00-E0-90-4	Providence
81d8m	NDTESTAP1	Infrastr	WEP	4	54 Mbps	00-00-41-0	Save Profile
-79d8m	NDTESTAP2	Inhastr	WEP	1	11 Mbps	00-E0-98-5	E.O.Com
78d9m	Untitled	Infrastr	None	10	54 Mbps	00-60-98-4	Egic Conn.
							Rescan
							-
						5	

Item	Description
Link Quality	It displays the link quality for the wireless connection to the access point.
Network Name (SSID)	
Mode	
Security	
Channel	
Rate	
MAC	

(2) Available Networks: The following figure displays the Available Networks, which highlights the network to which you wish to connect.

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failable Networks			
Link Detworks Link Dualty Network Name (SSID)	Mode Infrastructure Infrastructure Infrastructure	Security None WEP WEP None	Connect Save Profile Egit Conn. Bescan
Excellent Good Medium Poor	Connected Descriptio	AP Vie N	w Close
ink Quality	It displays for the win to the acce	the lir reless c ss poin	ık quality onnection t.
ink Quality letwork Name (SSID)	It displays for the win to the acce	the lir reless c ss poin	ık quality onnectioi t.
ink Quality Ietwork Name (SSID) Iode	It displays for the win to the acce	the lir reless c ss poin	nk quality onnection t.

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The **Profiles** Tab allows you to choose the settings, such as the **Auto-Selection Profiles** and **Additional Profiles**.

Profile 1 ARM904	None
	100
Additional Profiles	
Profile Name Network Name (55)	ID] Security

1. Auto-Selection Profiles

記錄 AP 的狀態/自動連接 AP

Item	Description
Profile Name	
Network Name (SSID)	
Security	

2. Additional Profiles

記錄 AP 的狀態

Item	Description
Profile Name	
Network Name (SSID)	
Security	
(1) New	

neral Security	General Security
Name: Profile 2 Network Name (550) Network Name (550) Power Same Power Pow	Name Interface Network Name (SSD) Network Mode: □ prinethucture Power Save □ IP Angle
Channel / Frequency Phy Mode: Channel & 802.11 b/g 1.7.2.412 GHz	Channel / Frequency Phy Mode: Channel @ 802.11 b/g 1 / 2.412 GHz
C duto Select Profile member	C duto Select Postle member
OK Cancel Apply	OK Cancel Apply

ltem	Description
Name	
Network Name (SSID)	
Network Mode	

(2) Edit

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About Tab

The About Tab displays basic link information of Device and Configuration Utility, including Device Name, Regulatory Domain, Driver Version, Firmware Version, NVM Version, MAC Address and Version of Configuration Utility.



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- 1. Go to Start → Control Panel → Network and Internet Connections → Network Connections.
- 2. In Network Connections window, right-click the Wireless Network Connection Enabled Wireless USB Adapter icon, and select Properties.

Pie Edt Ven Facoles Tools Advanced Help	
Althers Ratowsk Connections	
Characte Locales and Constant a	Conductored Condu
Barrana the connection	Bridge Connections
View status of the convertion Outrap settings of the convertion	Oreste Shortout Desire Rename
Other Places	Presenter

3. In Wireless Network Connection Properties window, select the General tab. Click Configure to enable Windows configuration.

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Wireless Network Con	nection Prop	erties	? 🛛
General Wireless Networks	Authentication	Advanced	
Connect using:			
🕮 Wireless USB Adapter			
This connection uses the foll	owing items:		
Client for Microsoft I Performed File and Printer Sha Performed QoS Packet Sched The NetBIOS	Networks ring for Microsoft uler	Networks	~
<	100		>
I <u>n</u> stall	<u>U</u> ninstall	Propertie:	s
Description Allows your computer to an network.	ccess resources	on a Microsoft	
Show icon in notification	area when conne	ected	
		IK C4	ancel

Wireless	USB Adap	ter Pro	operties			? 🗙
General	Advanced	Driver	Power Mana	gement		
The foll the proj on the i	owing proper perty you war ight.	ties are a It to char	wailable for thi: nge on the left,	network adapt and then select	er. Click its value	
Propert	y:			<u>V</u> alue:		and I
80211 Fragm Pream Rate (I RTS T	Power Save entation Thre ble Type Mbps) hreshold	shold		Disabled		•
				ОК	Ca	ncel

|--|

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802.11 Power Save	Enable the function to allow the Adapter to go to sleep mode, during which data communication could be interrupted. (Disabled or Enabled)
Fragmentation Threshold	To fragment MSDU or MMPDU into small sizes of frames for increasing the reliability of frame (The maximum value of 2346 means no fragmentation is needed) transmission. The performance will be decreased as well, thus a noisy environment is recommended.
Preamble Type	A preamble is a signal used in wireless environment to synchronize the transmitting timing including Synchronization and Start frame delimiter. (Note: Please check the setting of AP first.)
⊙ Long	In a "noisy" network environment, the Preamble Type should be set to Long Preamble .
⊙ Short	The Short Preamble is intended for applications where minimum overhead and maximum performance is desired. In a "noisy" network environment, the performance would be decreased.
⊙ Auto	Select Auto for the USB adapter to select the Preamble type automatically depending on the Access Point Preamble type.
Rate (Mbps)	It shows the current transfer rate. (1, 2, 5.5, or 11Mbps or Auto)

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RTS Threshold	This value should remain at its default setting of 2347 . Should you encounter inconsistent data flow only minor modifications of
	this value are recommended.

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

Available <u>n</u> etworks: To connect to an available network,	click Configure.
NDTESTAP2	Configure
P Untitled	Bofrosh
- Automatically connect to available n	etworks in the order lister
Automatically connect to available n below:	etworks in the order lister
Automatically connect to available n below:	etworks in the order lister Move up Move down

□Use Windows to configure...

Check the box to enable Windows configuration.

* Use Windows to configure

Note: Once you enable windows configuration, you can use Windows XP's Wireless Configuration Utility to configure the wireless settings.

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* 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** checked then click the Network Status icon in the taskbar. (Please refer to below figure)

Available networks:	
NDTESTAP2 Unitide NDTESTAP1	Configure Refresh
Preferred networks: Automatically connect to available net below. Untitled	works in the order listed Move up Move down
	Properties

Available networks

Displays all available networks.

Configure

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

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Wireless Network Prop	erties	? 🗙
Network name (SSID):	Intel-AP	
Wireless network key (WE	EP)	
This network requires a k	ey for the following:	
Data encryption (WI	EP enabled)	
Network <u>A</u> uthentica	tion (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 fo	r me automatically	
This is a <u>c</u> omputer-to-co access points are not us	mputer (ad hoc) network; v ed OK Can	vireless

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

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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.

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UNINSTALLATION

In case you need to uninstall the Utility or Driver, please

refer to below sections.

Uninstall the Utility 1. Go to Start → (Settings →) Control Panel → Add or Remove Programs. 2. Highlight Wireless LAN Utility, Click Change/Remove.

3. Select **Remove** and the click **Next** to continue.

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4. Click **OK** to continue.

Confirm	File Deletion
Do you	want to completely remove the selected application and all of its components
	OK Cancel

5. Click **Finish** to complete the uninstalled procedure.

InstallShield Wizard	
	Maintenance Complete InstallShield Wizard has finished performing maintenance operations on Wireless LAN Utility.
	< Back Finish Cancel

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- 1. Right-click My Computer \rightarrow Properties \rightarrow Hardware \rightarrow Device Manager.
- 2. Right-click USB 2.0 Wireless Network Adapter and then click Uninstall (or Remove).



3. Click OK.



4. The system may prompt you to restart your computer. Click **Yes**.

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SPECIFICATIONS

Standards	IEEE 802.11g
Host Interface	USB 2.0
Antenna	External Antenna, rotating angle 0° to 90°
Frequency Range	2.412GHz-2.4835GHz
Number of Selectable Channels	USA, Canada: 11 channels Japan: 14 channels Europe: 13 channels
Modulation Technique	Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK) Orthogonal frequency division multiplexing (OFDM)
Security	0/64/128 bit WEP
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
Out Power	11g: 14 dBm 11b: 18 dBm
Data Rate	802.11g(54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps) 802.11b(11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps)
Physical Specifications	Weight: 50 g Dimension: 107 (L) x 64 (W) x 21(H) mm
LED Indicators	Power: Green ACT: Green LINK: Green
Power Requirement	Operating Voltage: 5V DC TX consumption: 480mA (Max) RX consumption: 460mA (Max)
Supported OS	Windows 2000 (SP3,4)

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	Windows XP (SP1)
	Windows ME
	Windows XP
	Operating Temperature: -5~60°C
	ambient temperature
	Storage Temperature: -20~70°C
Environment	ambient temperature
Specifications	Operating humidity: 90% maximum
	(non-condensing)
	Storage humidity: 90% maximum
	(non-condensing)
	FCC Part 15 in US
EMC	EN300328 and EN300826
Certification	(EN301489-17) in Europe
	DGT and BSMI in Taiwan

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