802.11b Wireless & Fast Ethernet USB Adapter

User Guide

Doc. No.: 071202-01

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 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:

- 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

The 802.11b Wireless & Fast Ethernet USB Adapter is the multifunction device for your wireless network applications and based on the IEEE 802.11b standard offering a data rate of 11Mbps in a wireless LAN environment and 10/100Mbps traditional network. It is a high-speed wireless network device that plugs into your notebook or desktop PC and accesses to the LAN or peer-to-peer networking easily without wires or cables. Besides, this device allows you to connect the traditional 10/100 Mbps network via the RJ-45 port. Whether you're at your desk or in the boardroom, it allows you to share printers, files, and other network resources via wireless LAN or Fast Ethernet network.

The USB adapter designed to be inserted into a USB type A port of a laptop or desktop computer creating a wireless or LAN workstation. With the tightly integrated wireless LAN and LAN networking, the users do not need to juggle multiple cards for concurrent use of wireless LAN and LAN, it is greatly improvement of the wireless and LAN and gets the real convenience.

Features

- ♦ Compliant with IEEE802.11b standard for 2.4GHz Wireless LAN
- Dual-speed RJ-45 port auto-negotiation 10BaseT/100BaseTX
- ♦ USB 1.1 compliant
- ♦ USB Plug & Play
- ♦ Interoperable with existing network infrastructure
- \diamond Secure information transmission
- ✤ Freedom to roam while staying connected
- ♦ Compatible with specialty wireless products and services
- ♦ Up to 11Mbps data rate
- ♦ Support operating systems such as Window 98SE/2000/ME/XP
- \diamond Lower power consumption
- ♦ Easy of Installation
- ♦ High-power Bus-power no external power is required

SOFTWARE INSTALLATION

Precaution for Windows 98SE, 2000, and ME users: Please install the Adapter's software before installing the hardware for saving your time.

Precaution for Windows XP users: It's not necessary to install the utility, since the device will use the built-in utility in Windows XP.

Installation the Utility under Windows 98SE/ME/2000

1. Insert the **Setup Utility CD-ROM** into the CD-ROM drive and double click on **Setup.exe** to install the Configuration & Monitor Utility.



2. When the Welcome screen appears, click Next to continue.



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

InstallShield Wizard	×
Choose Destination Location Select folder where Setup will install files.	
Setup will install 802.11 Wireless + USB 10&100	LAN in the following folder.
To install to this folder, click Next. To install to a another folder.	adifferent folder, click Browse and select
Destination Folder C.\\602.11 Wireless + USB 10&100 LAN InstaliShield	Browse

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

InstallShield Wizard	×
Select Program Folder Please select a program folder.	
Setup will add program icons to the Program Folder listed below. name, or select one from the existing folders list. Click Next to co	You may type a new folder ntinue.
Program Folders:	
802.11 Wireless + USB 10&100 LAN	
Existing Folders:	
Accessories	
Online Services Start In	
statop	
< Back	Next > Cancel

5. In Start Copying Files, click Next to continue.



6. In **Setup Status**, the InstallShield Wizard will begin copying the files.



 After the Configuration Utility has been successfully installed, select Yes, I want to restart my computer now, and then click Finish to restart.



HARDWARE INSTALLATION

Installation of the USB Adapter for Windows 98SE/ME/2000

Automatically

Precaution for Windows 98SE, 2000, and ME users: If the Application setup in <u>Installation the Utility under</u> <u>Windows98SE/ME/2000</u> has been completed, follow below steps to install the hardware.

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. Plug the square end (**Type B**) of USB cable into the adapter's USB port.
- 2. Plug the rectangle end (**Type A**) of USB cable into the PC's USB port.
- 3. Insert one end of your network cable into the RJ-45 network port. Connect the other end of the cable into a Hub.

After 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.

Precaution for Windows 2000 users: When **Digital Signature Not Found** screen appears, click **Yes** to continue.



Manually

If you want to install the Hardware before installing the utility, please follow the below section.

Under Windows 98SE

- 1. In Add New Hardware Wizard, click Next.
- 2. Click Search for the best driver for your device (Recommended).
- 3. Insert the device driver CD-ROM into the CD-ROM drive. Select **Specify a location:** and click **Browse** to provide the appropriate path (e.g. D:**Win9xMe**). Click **Next**.



- 4. Click **Next**, Windows will copy all the necessary files to your system.
- 5. Insert Windows 98SE CD-ROM.



- 6. Click **Finish** to continue.
- 7. When Windows prompts you to restart your computer, click No.
- 8. Repeat step 1-6.
- 9. When Windows prompts you to restart your computer, click Yes.

Then go to <u>Installation the Utility under Windows98SE/ME/2000</u> section for installing the utility.

Under Windows ME

- 1. Select Specify the location of the driver (Advanced), click Next.
- Insert the device driver 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:\Win9xMe). Click Next.
- 3. Click **Next**, Windows will copy all the necessary files to your system.
- 4. Click **Finish** to continue.
- 5. When Windows prompts you to restart your computer, click No.
- 6. Repeat step 1-4.
- 7. When Windows prompts you to restart your computer, click Yes.

Then go to <u>Installation the Utility under Windows98SE/ME/2000</u> section for installing the utility.

Under Windows 2000

- 1. In Found New Hardware Wizard, click Next.
- 2. In Install Hardware Device drivers, click Search for a suitable driver for my device (Recommended).
- 3. Insert the device driver CD-ROM into the CD-ROM drive. Select **CD-ROM drivers** and **Specify a location.**
- 4. Click **Browse** to provide the appropriate path (e.g. D:**Win2kXP**). Click **OK**.

Found New	v Hardware Wizard	×
2	Insert the manufacturer's installation disk into the drive selected, and then click DK.	OK Cancel
	Copy manufacturer's files from: D:\\Wim2kXP ▼	Browse

- 5. Click **Next**, Windows will copy all the necessary files to your system.
- 6. Click **Yes** to continue the installation.
- 7. Click **Finish** to continue.
- 8. Repeat step 1-6.
- 9. Click Finish.
- 10. Restart your computer.

Then go to <u>Installation the Utility under Windows98SE/ME/2000</u> section for installing the utility.

Precaution for Windows XP users: You must install the Adapter's hardware, and then go to <u>Installation of the USB Adapter for</u> Windows XP.

Installation of the USB Adapter for Windows XP

1. Once the device is well connected to your computer, Windows XP will automatically detect the new device. Click **Install from a list...** and click **Next.**



2. Insert the Setup Utility 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:\Win2kXP). Click Next.



3. Click Continue Anyway to proceed.



4. Click **Finish** to continue the Utility installation.



5. Wait for seconds. Windows XP will automatically detect the new hardware. Click Install from a list or specific location (Advanced) and click Next.



6. Select **Include this location in the search:** and click **Browse** to provide the appropriate path (e.g. **D:\Win2kXP**). Click **Next**.



7. Click Continue Anyway to proceed.



8. Click **Finish** to complete the Utility installation.



NETWORK CONNECTION

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

Configuring the Network Protocols for Windows 98SE/ME

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

Network	K
Configuration Identification Access Control	
	1
The following network components are installed:	l
E Client for Microsoft Networks	l
📇 Microsoft Family Logon	l
Dial-Up Adapter	l
Wireless USB Adapter	l
TCP/IP -> Dial-Up Adapter	l
	l
Add Remove Properties	l
Primary Network Logon:	l
Microsoft Family Logon	l
<u>F</u> ile and Print Sharing	l
Description	l
USBs USB Adapter	l
	l
OK Cancel	

- USB 10/100 Network Adapter
- Wireless USB Adapter

- 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 listed above are provided by Microsoft.

3. After clicking Add, highlight the component you need, click Add.

lect Network Component Type	? ×
Click the type of network component you want to install:	
🔜 Client	Add
📲 Adapter	
Y Protocol	Cancel
Bervice	
Protocol is a 'language' a computer uses. Computers must use the same protocol to communicate.	

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

Click the Network	ork Protocol that you want to install, then click OK. If you have an ctor this device, click Have Disk.
Manufacturers:	Network Protocols:
Banyan BEIBM	Microsoft 32-bit DLC
Y Microsoft	Microsoft DLC
3 Novell	3 TNetBEUI 3 TCP/IP 3 WAN support for ATM 3 Winsock2 ATM Service Provider
	Have Disk
	OK Cancel

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.

Network	? ×
Configuration Identification Access Control	
Windows uses the following information to identify your computer on the network. Please type a name for this computer, the workgroup it will appear in, and a short description of the computer.	
Computer name:	
Workgroup:	
Computer Description:	
OK Can	cel

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."



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

Configuring the Network Protocols for Windows 2000

USB 10/100 Network Adapter

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

Local Area Connection Properties		
General		
Connect using:		
USB 10/100 Network Adapter		
Configure		
Components checked are used by this connection:		
Install Uninstall Properties		
Description		
Allows your computer to access resources on a Microsoft network.		
OK Cancel		

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.



Select Ne	twork Protocol 🔀
¥.	Click the Network Protocol that you want to install, then click OK. If you have an installation disk for this component, click Have Disk.
Network	Protocol:
AppleT DLC Pr	alk Protocol
Networ	K Monitor Driver
1	
	Have Disk
	OK Cancel

Local Area Connection	Properties	<u>? ×</u>	
General			
Connect using:			
耳 USB 10/100 Ne	twork Adapter		
		<u>C</u> onfigure	
Components checked	are used by this conn	ection:	
Client for Microsoft Networks File and Printer Sharing for Microsoft Networks Sharing for M			
Install	<u>U</u> ninstall	Properties	
Description			
Allows your computer to access resources on a Microsoft network.			
✓ Show icon in taskbar when connected			
	C	lose 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 installation.

Wireless USB Adapter

1. Go to Start→ Settings → Control Panel → Network and Dial-up Connections → Local Area Connection 2 → Properties.

🔁 Network and Dial-up Connecti	ions			
File Edit View Favorites	Tools Advanced	Help		
📙 😓 Back 🔹 🤿 👻 🔂 🖓 Sear	ch 🕒 Folders	History	宿 唱 X M) ==-
Address 違 Network and Dial-up C	onnections			• @Go
	æ	-		
Network and Dial-	Make New Connection	Local Area Connection	Local Area Connection 2	
up Connections				Disable
Land Area Consulting 2			-	Status
Local Area Connection 2				Create Shortcut Delete
Type: LAN Connection				Rename
Status: Enabled				Properties
Wireless USB Adapter			-	
🖳 Displays the properties of the sele	cted connection.			1.

2. Repeat step 2-5 in previous section. (USB 10/100 Network Adapter)

Configuring the Network Protocols for Windows XP

USB 10/100 Network Adapter

1. Go to Start → Control Panel → Network and Internet Connections → Network Connections → Local Area Connection Enabled USB 10/100 Network Adapter → 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)

Local Area Connection Properties	? 🗙
General Authentication Advanced	
Connect using:	
B USB 10/100 Network Adapter	
	e
This connection uses the following items:	
File and Printer Sharing for Microsoft Networks B QoS Packet Scheduler S Network Monitor Driver	~
Install Uninstall Propertie	us a
Allows your computer to access resources on a Microsoft network.	
Show icon in notification area when connected	
ОКС	ancel

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.

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

Wireless USB Adapter

- 1. Go to Start→ Control Panel → Network and Internet Connections → Network Connections → Local Area Connection Enabled Wireless USB Adapter → Properties
- 2. Repeat Step 2-5 in previous section. (USB 10/100 Network Adapter)

CONFIGURATION PROCEDURE

Configuration and Monitor Utility for Windows 98SE/ME/2000

After installing the device successfully, go to Start \rightarrow Programs \rightarrow 802.11 Wireless + USB 10&100 LAN \rightarrow Configuration and Monitor Utility.



The **Wireless LAN Monitor Utility** icon will appear in the taskbar every time the device is running. You can open it by double-clicking on this icon.



Icon Status

Mode	Icon	Link Status			
Access Point mode	<mark>-11</mark>	Red . The station is not associated to an Access Point.			
)ii	Blue . The station associates itself to an Access Point.			
Peer-to-Peer mode	<mark>-14</mark>	Red . The color is red only when the card is during resetting or initializing procedure.			
		Blue . Peer-to-Peer mode is activated.			

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 <u>Configuration for Windows XP</u> section)

All settings are categorized into 6 tabs:

Monitor

Statistics

Site Survey

Encryption

Advanced

Version

Monitor

The Status tab will display the current status of the Wireless USB Adapter.

Wirele	ss LAN Monitor Utili	by and the second se	×	C			
	Wireless USB Adapter						
		,	·				
M	fonitor Statistics S	ite Survey Encryption	Advanced Version				
	Operating Mode	Access Point	V				
	Channel	11	Change				
	SSID	Intel	Submit				
	Tx Rate	11 Mbps					
	Int. Roaming	Disabled	Cancel				
	Radio	On	Y				
	Status	Associated - BSSID:	00-03-47-14-B4-F4				
	Signal Strength						
	Link Quality	100	%				
	2221 ((100	%				
			(Hide				

Item	Description
Operating Mode	It displays the current operating mode. (Access Point or Peer-to -Peer).
Channel	It shows the selected channel that is currently used. (There are 14 channels available, depends on the country.)
SSID	The SSID is the unique name shared among all points in your wireless network. The name must be identical for all devices and points attempting to connect to the same network.

Item	Description			
	It shows the current SSID setting of the Wireless USB Adapter.			
Tx Rate	It shows the current transfer rate. (1, 2, 5.5, or 11Mbps or Auto)			
Int. Roaming	It displays the current roaming status. (Disabled or Enabled)			
Radio	It displays the current status of the Wireless USB Adapter. (On or Off)			
Status	It displays the information about the status of the communication (the BSSID of the Access Point to which the card is associated).			
Signal Strength	It displays the signal strength of the connection between the Wireless USB Adapter and the Access Point it connects.			
Link Quality	It displays the link quality of the connection between the Wireless USB Adapter and the Access Point it connects.			
Change	Click Change to change the configuration parameters such as Operating Mode , SSID , Tx Rate , and Int. Roaming . (In Peer-to-Peer mode, Channel button is enabled).			
Submit	Click Submit to save the changes.			
Cancel	Click Cancel to ignore the previous setting.			
Hide	Click Hide to exit the application.			

Statistics

This option shows you to view the available statistic information (**Data packets, Management Packets and Rejected packets**). Press the **Clear** button to renew or update this list of statistics.

Wir	eless LA	N Monito	r Utility		×
		Wireless	USB Adapter	•	
	Monitor	Statistics	Site Survey Encryption	Advanced Version	1
	– Data	Packets-	Tx	Rx	
	Su	iccessful	9	11	
	Ur	nsuccessful	0	0	
	Mgm	nt Packets-			
	Su	iccessful	2	1142	
	U	nsuccessful	0	1048	
	Reje	cted Packe	ets O	0	
				Clear	
-				Hide	

Site Survey

The **Site Survey** tab shows all the available Access Points and their features.

Wi	rele	ss LAN Monitor U	tility					X
	Wireless USB Adapter							
	Mo	onitor Statistics Si	e Survey Enci	yption	Adva	nced	Version	1
		BSSID	SSID	Signal	Ch	WEP	Туре	
		00-E0-98-9F-D3-2B 00-40-05-BE-D2-42	Intel DWL900AP+	15 % N/A	3 6	No No	Infrasti Infrasti	
		•					Þ	
			Re	Scan		Cance		
							Hide	-

Item	Description
BSSID	A set of wireless stations is referred to as a Basic Service Set (BSS). Computers in a BSS must be configured with the same BSS ID.
SSID	The SSID is the unique name shared among all points in your wireless network. The name must be identical for all devices and

Item	Description			
	points attempting to connect to the same network.			
Signal	It displays the signal strength of the connection between the Wireless USB Adapter and the Access Point it connects.			
Ch	It shows the selected channel that is currently used.			
WEP	It displays the status of WEP Encryption.			
Туре	It displays the type of Basic Service Set.			
	Access Point: allows the Adapter to communicate with a wired network which employing an Access Point.			
	Peer-to-Peer:allowsPC-to-PC,station-to-stationcommunicationwithoutemploying an Access Point.			
Re-Scan	Search for all available networks. Clicking on the button, the device will start to rescan and list all available sites.			
Cancel	Click Cancel to ignore the previous setting. (Do not press Cancel while Re-Scan is working.)			
Hide	Click Hide to exit the application.			

Encryption

WEP (Wired Equivalent Privacy) encryption can be used to ensure the security of your wireless network.

Wireless LAN I	Ionitor Utility		2	×
	/ireless USB Adapter	_		
Monitor Sta	atistics Site Survey	Encryption Adv	vanced Version	
E	ncryption	Disabled	•	
K K	ey #1 🕅 🕬 🕬 🕬 🕬 🕬 🕬 🕬 🕬 🕬 🕬 🕬 🕬 🕬	: :		
к	ey #4	:		
w w A	/EP Key to use /EP Mode uthentication Type	Key #1 Mandatory Auto	Y Y Y	
			Submit	
			Hide	

Item	Description		
Encryption	WEP is a data privacy mechanism based on a 64-bit/128-bit shared key algorithm.		
	Under the drop-down box, you can choose to have WEP encryption Disabled , 64 Bit , or 128 Bit .		
Key #1/Key #2/	This setting is the configuration key used in accessing the wireless network via WEP encryption. To generate an encryption key: 1. Select 64 Bit or 128 Bit.		
Key #3/Key #4			
	2. Click "Key1" or "Key2" or "Key3" or "key4" item, then fill in the appropriate value/phrase.		

WED Voy to	You can specify up to 4 different keys to <i>decrypt</i>		
WEF Key to	wireless data. Select the Default key setting from		
use	the pull-down menu.		
WED Mode	Two WEP modes are available as below:		
WEI MOUE	Mandatory and Optional.		
	Mandatory: WEP Encryption is required to		
	establish connection with other stations within the		
	wireless network.		
	Optional: Your station can communicate with		
	other stations within the wireless network		
	regardless if they use WEP or not.		
Authentication	The authentication type defines configuration		
Туре	options for the sharing of wireless networks to		
	verify identity and access privileges of roaming		
	wireless network cards.		
	You may choose between Open System, Shared		
	Key, and Auto.		
	Open System: If the Access Point is using " Open		
	System " authentication, then the wireless adapter will need to be set to the same authentication type.		
	Shared Key: Shared Key is when both the sender		
	and the recipient share a secret key.		
	Auto: Select Auto for the USB adapter to select		
	the Authentication type automatically depending		
	on the Access Point Authentication type.		
Submit	Click Submit to save the changes.		
Hide	Click Hide to exit the application.		

Note: You must use the same value/phrase or WEP key settings for all wireless computers in order for the wireless network to function well.

Advanced

You can change advanced configuration settings, such as the **Preamble Type**, **Fragmentation Threshold** and **RTS/CTS Threshold**.

Wire	less LAN Monitor Utility		×
L L	Wireless USB Adapter	Encryption Advanced Version	
	Preamble Type	O Long O Short ⊙ Auto	
	Fragmentation Threshold Disabled RTS/CTS Threshold Disabled	2346	
	Power Save		
		Submit	
		Hide	

Item	Description
Preamble Type	A preamble is a signal used in wireless environment to synchronize the transmitting timing including Synchronization and Start frame delimiter.
⊙ Long	If in a "noisy" network environment, the Preamble Type should be set to Long .

⊙ Short	The Short preamble is intended for applications where minimum overhead and maximum performance is desired. If 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.	
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.	
RTS/CTS 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.	
Power Save	Check the box to allow the Adapter to go to sleep mode, during which data communication could be interrupted.	
Submit	Click Submit to save the changes.	
Hide	Click Hide to exit the application.	

Version

You can view basic information about the Utility like the **Driver**, **Firmware** and **Application** Version. Use the **Hide** button to exit the application.

Wi	ele	ss LAN Monitor Utility) – – – – – – – – – – – – – – – – – – –	×
		Wireless USB Ac	lapter 💌	
		and conversions of cares	week Energy in Ladenard Marging 1	
	мо	initor Statistics Site St	urvey Encryption Advanced Version	1
		Wireless Lan.		
		Driver	V V V VVV	
		Diivei		
		Firmware	X. XX. X. XX	
		Application	X. X. X. XX	
		MAC Address	00-E0-98-12-F1-F1	
				-
			Hide	

Configuration for Windows XP

USB 10/100 Network Adapter

- 1. Go to Start → Control Panel → Network and Internet Connections → Network Connections.
- 2. In Network Connections window, right-click the Local Area Connection Enabled USB 10/100 Network Adapter icon, and select Properties.



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

Local Area Connection 2 Properties	?×
General Authentication Advanced	
Connect using:	
B USB 10/100 Network Adapter	
This connection uses the following items:	
✓ Client for Microsoft Networks ✓ Client for Microsoft Networks ✓ Client Finiter Sharing for Microsoft Networks ✓ Client Scheduler Vorticit NetBIOS	~
Install Uninstall Propertie:	s
Description	
Allows your computer to access resources on a Microsoft network.	
Show icon in notification area when connected	
ОК Са	ancel



Wireless USB Adapter

- 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.



Note: Double-click the **Wireless Network Connection Enabled Wireless USB Adapter** icon and you will see the status of the wireless PC Card.

3. In Wireless Network Connection Properties window, select the Advanced tab.

Wireless USB Adapter Properties ? 🛛		
General Advanced Driver Power M	lanagement	
The following properties are available for the property you want to change on the on the right.	or this network adapter. Click s left, and then select its value	
Property:	⊻alue:	
80211 Power Save Fragmentation Threshold Preamble Type Rate (Mbps) RTS Threshold	Disabled	
	OK C.	ancel

Property	Description	
802.11 Power Save	Enable the function to allow the Adapter to go to sleep mode, during which data communication could be interrupted.	
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.	

⊙ Long	If in a "noisy" network environment, the Preamble Type should be set to Long .	
⊙ Short	The Short preamble is intended for applications where minimum overhead and maximum performance is desired. If 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)	
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.

– Wirel	ess Network Con	nection Proper	ties ?
General	Wireless Networks	Authentication A	dvanced
Vse	Windows to configur able <u>n</u> etworks: onnect to an available	e my wireless netwo network, click Con	rk settings figure.
8	123		Configure
			Refresh
Pelev	123		Move <u>up</u>
			Move <u>d</u> own
	Add <u>R</u> emo	ve Pr <u>o</u> pertie	s
Learn <u>confic</u>	about <u>setting up wire</u> juration.	<u>ess network</u>	Advanced
		ОК	Cancel

□Use Windows to configure...

Check the box to enable Windows configuration.

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):	123	
Wireless network key (WI	EP)	
This network requires a k	ey for the following:	
Data encryption (W	EP enabled)	
Network <u>A</u> uthentica	ation (Shared mode)	
Network <u>k</u> ey:		
Key format:	ASCII characters	
Key Jength:	104 bits (13 characters) 💌	
Key inde <u>x</u> (advanced):	0	
The key is provided for me automatically		
This is a computer-to-computer (ad hoc) network; wireless access points are not used		

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.

UNINSTALL PROCEDURE

Note: In case you need to uninstall the Utility or device, please refer to below section.

Uninstall Procedure Under Windows 98SE/ME/2000

Uninstall the Configuration Utility

Go to Start → Programs → 802.11 Wireless + USB 10&100 LAN
 → Uninstall Configuration and Monitor Utility.



2. Click **OK** to continue.



3. Click Yes.



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



Uninstall the device

Under Windows 98SE/ME

- 1. Go to Start \rightarrow Settings \rightarrow Control Panel \rightarrow Network.
- 2. Select USB 10/100 Network Adapter or Wireless USB Adapter then click Remove. Click OK.

Network	Network ? X
Configuration Identification Access Control	Configuration Identification Access Control
The following network components are installed:	The following network components are installed: Client for Microsoft Networks
Microsoft Family Logon Joint Up Adapter International Adapter	■ Microsoft Family Logon ■ Dial-Up Adapter Up Adapter
Stop ToPion Network Adapter S TCP/IP → Dial-Up Adapter	¥ ТСР/Р -> Dial-Up Adapter ¥ ТСР/Р -> Wireless USB Adapter ¥ ТСР/Р -> Wireless USB Adapter
Add Remove Properties Primary Network Logon: Microsoft Family Logon	Add. Remove Properties Primary Network Logon
Eile and Print Sharing Description USBs USB Adapter	Ele and Print Sharing Description VirtuaINET let you set up easily and operate a Wireless LAN compliant with 802:115 Isandard. It operates in the license free 2.4 GHz ISM band and achieves a peak data rate of 11 Mbs.
OK Cancel	OK Cancel

3. The system will prompt you to restart your computer. Click Yes.



Under Windows 2000

USB 10/100 Network Adapter

- 1. Go to Start \rightarrow Control Panel \rightarrow Add/Remove Hardware.
- 2. When the Welcome screen appears, click Next to continue.



3. In Choose a Hardware Task, select Uninstall/Unplug a device and click Next.



4. In Choose a Removal Task, select Uninstall a device and click Next.

Add/Remove Hardware Wizard
Choose a Removal Task You can remove a device permanently or temporarily.
Select the removal task you want to porform, and then click Next.
< <u>B</u> ack Next> Cancel

5. Check the **Show hidden devices** check box and locate the device in the device list. Select the device and click **Next**.

Add/Remove Hardware Wizard	
Installed Devices on Your Computer The following hardware is installed on your computer.	
Select the device you want to uninstall,	
Devices]
Contract Con	
Microsoft Streaming Network Raw Channel Access	
Microsoft Streaming Quality Manager Proxy	
BAS Async Adapter	
🔁 USB Root Hub	
🚭 Generic USB Hub	
USB 10/100 Network Adapter]
☑ Show hidden devices	
	ncel

6. Select Yes, I want to uninstall this device and click Next.

Add/Remove Hardware Wizard
Uninstall a Device Confirm that you want to uninstall this device.
USB 10/100 Network Adapter Are you sure that you want to uninstall this device? © Tres, I want to uninstall this device Ng, I do not want to uninstall this device
< <u>B</u> aci <u>N</u> ext> Cancel

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



Wireless USB Adapter

- 1. Repeat Step 1-4 in previous section. (USB 10/100 Network Adapter)
- 2. Check the **Show hidden devices** check box and locate the device in the device list. Select the device and click **Next**.

Add/	Remove Hardware Wizard
Ir	nstalled Devices on Your Computer The following hardware is installed on your computer.
	Select the device you want to uninstall.
	Devices 🔺
	Microsoft Streaming Network Raw Channel Access
	Microsoft Streaming Quality Manager Proxy
	BAS Async Adapter
	👻 USB Root Hub
	Wireless USB Adapter
	😴 Generic USB Hub
	BUSB 10/100 Network Adapter
	Show hidden devices
	< Back Next > Cancel

- 3. Select Yes, I want to uninstall this device and click Next.
- 4. Click **Finish** to complete the uninstalled procedure.

Uninstall Procedure Under Windows XP

Uninstall the driver

USB 10/100 Network Adapter

1. Go to Start → Control Panel → Network and Internet Connections → Network Connections → Local Area Connection Enabled USB 10/100 Network Adapter → Properties.

Network Connections			
File Edit View Favorites To	ools Advanced Help		A
🔇 Back + 🔘 - 🧊 🔎	Search 🜔 Folders 🛄 •		
Address 💊 Network Connections			🛩 🛃 Go
Network Taske (2) Cristia a new connection Setup a home or small office network Office network Disable this metwork derice Repart this connection Remare this connection We reduce of this Vew rotation of this	LAVer High-Speed Internet Social Area Scienceson 2 anal Res 10/100 herwork Adapter	Disable Status Repair Bridge Connections Create Shortout Delate Remains	
Connection Change cettings of this connection Other Places Change Central Panel Change Control Panel		Properties	
Hy Network Places My Documents Hy Computer Details Cocal Area Connection 2			
Start Network	Connections		🕉 🏤 6.59 PM

2. Click **Configure** to continue.

🕹 Local Area Conne	ction 2 Properties	: ? 🔀		
General Authentication	Advanced			
Connect using:				
📖 USB 10/100 Ne	twork Adapter			
This c <u>o</u> nnection uses t	he following items:	Configure		
Client for Micro Elient for Micro Elie and Printe Elie and Printe Elie and Printe File File and Printe File File and Printe File File	psoft Networks r Sharing for Microsoft icheduler IDS	Networks		
I <u>n</u> stall	<u>U</u> ninstall	P <u>r</u> operties		
Description Allows your computer to access resources on a Microsoft				
Show icon in notification area when connected				

3. In Driver tab, click Uninstall to uninstall this device.

USB 10/100 Network Adapter Properties 🛛 🔹 🛛 🥐				
General Advanced Driver				
USB 10/100 Network Adapter				
Driver Provider: USBs				
Driver Date: 3/25/2002				
Driver Version: 2.0.4.1				
Digital Signer: Not digitally signed				
Driver Details To view details about the driver files.				
Ugdate Driver To update the driver for this device.				
<u>Boll Back Driver</u> If the device fails after updating the driver, roll back to the previously installed driver.				
Uninstall To uninstall the driver (Advanced).				
OK Cancel				

4. Click **OK** to complete the uninstalled procedure.



Wireless USB Adapter

1. Go to Start → Control Panel → Network and Internet Connections → Network Connections → Wireless Network Connection Enabled Wireless USB Adapter → Properties.



- 2. Click Configure to continue.
- 3. In Driver tab, click Uninstall to uninstall this device.
- 4. Click OK.



Uninstall the device

USB 10/100 Network Adapter

1. Go to Start → Control Panel → System → Hardware → Device Manager.

em Pro	operties			?
Syste	m Restore	Automa	tic U pdates	Remote
Genera	Computer	Name 🤇	Hardware	Advanced
Add Ha	dware Wizard The Add Hardwar	re Wizard he	elps you install har	dware.
-			Add <u>H</u> ardw	vare Wizard
Device	Manager			
F	The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.			
	Driver Sign	ning 🌔	<u>D</u> evice I	Manager
Hardwa	re Profiles			
R	Hardware profiles different hardware	provide a w e configurati	vay for you to set u ons.	up and store
			Hardwar	e <u>P</u> rofiles

2. In Network Adapter item, right-click USB 10/100 Network Adapter and then select Uninstall.

🚨 Device Manager 📃 🗖 🔀
File Action View Help
Image: Second
thinstalls the driver for the selected device.

3. Click **OK** to uninstall this device.

Confirm	Confirm Device Removal 🛛 ? 🔀				
	USB 10/100 Network Adapter				
Warning	: You are about to uninstall this device from your system.				
	OK Cancel				

Wireless USB Adapter

1. Go to Start → Control Panel → System → Hardware → Device Manager.

2. In Network Adapter item, right-click USB 10/100 Network Adapter and then select Uninstall.

🚚 Device Manager		
File Action View Help		
←→ 🗉 🖆 🖨 😫 🔕	🌫 🔀 😹	
E 📕 ABO-86RA34K4XGP		
😥 😼 Computer		
😟 🥪 Disk drives		
🗄 😼 Display adapters		
E S DVD/CD-ROM drives		
E B Floppy disk controllers		
E 4 Floppy disk drives		
IDE ATA/ATAPI controllers		
🕀 🦢 Keyboards		
It is and other pointing device	es	
🗄 😼 Monitors		
Network adapters		
USB 10/100 Network Ada	prer	
Wireless USB Adapter		L.
H PCMCIA adapters	update Driver	
H Ports (COM & LPT)	Lisabic	
Processors	Uninstall	/
E- 🚽 System devices	Scan for hardware changes	
🗈 🏟 Universal Serial Bus contro	Properties	
Uninstalls the driver for the selected device	te.	

3. Click **OK** to uninstall this device.

Confirm Device Removal 🛛 🔋 🔀		
HE	Wireless USB Adapter	
Warning: You are about to uninstall this device from your system.		
	OK Cancel	

SPECIFICATIONS

Wireless		
Standard	IEEE 802.11b	
Host Interface	USB 1.1	
Physical	Weight: 450 g Dimension: 91.5(L) x 64 (W) x 24.2(H) mm	
Antenna	External Antenna, rotating angle 0° to 90°	
	Ethernet: Green, ON	
LED Indicators	Power: Green, ON	
	WLAN: Green, ON	
	Operating Voltage: 5V DC	
Power Requirement	• TX consumption: 442mA (Max)	
	• RX consumption: 261mA (Max)	
Frequency Range	2.412GHz ~ 2.4835GHz	
	USA, Canada: 11 channels	
Number of Selectable Channels	Europe: 13 channels	
	Japan: 14 channels	
Modulation Technique	Direct Sequence Spread Spectrum (CCK, DQPSK, DRPSK)	
Soourity		
Security	0/04/128 DIL WEP	
Spreading	11 chip Barker sequence	
Bit Error rate	Better than 10 ⁻⁵	

Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK		
Supported OS	Windows 98SE/ ME/ 2000/ XP		
FMC Cortification	FCC Part 15 in US		
ENIC Certification	EN300328 and EN300826 (301489-17) in Europe		
LAN			
Standards	IEEE 802.3 for 10BaseT Ethernet		
Stanuarus	IEEE 802.3u for 100BaseT Ethernet		
Ports	1 RJ-45 port; 1 USB B type port		
Data Rate	10/100 Mbps for Ethernet data transfer		
Supported OS	Windows 98SE/ ME/ 2000/ XP		