2. The screen will show you the default destination chosen by the utility. Click **Next** to continue or click the **Browse** button to select an alternate destination.

IEEE802.11b WLAN USB Adapter v3.0 Setup	×
Choose Destination Location Select the folder where Setup will install the files.	
Setup will install the IEEE802.11b WLAN USB Adapter v3.0 in the folder shown below.	
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.	
Destination Folder C:\\IEEE802.11b WLAN USB Adapter v3.0	
InstallShield	
< <u>B</u> ack (<u>Next</u> >) Cancel	

3. The following screen will add program icons to the Program Folder. You may type a new folder name or select one from the existing folders list. Click **Next** to continue or click **Back** to review or change any settings.

IEEE802.11b WLAN USB Adapter v3.0 Setup	×
Select Program Folder Please select a program folder.	N
Setup will add program icons to the Program Folder listed below. You may type a ne name, or select one from the existing folders list. Click Next to continue.	w folder
Program Folders:	
IEEE802.11b WLAN USB Adapter v3.0	
Existing Folders:	
Accessories Administrative Tools Startup	
InstallShield	Cancel

4. The following screen will start to copy the program files. Click **Next** to continue or click **Back** to review or change any settings.

EEE802.11b WLAN USB Adaj	pter v3.0 Setup	×
Start Copying Files Review settings before copying	ı files.	2
Setup has enough information t change any settings, click Back copying files.	o start copying the program files. If you want to rev k. If you are satisfied with the settings, click Next to	iew or begin
Current Settings:		
The tollowing items are copied: IEEE802.11b WLAN The default configuration of the Wireless Mode SSID	: I USB Adapter Utility e IEEE802.11b WLAN USB Adapter v3.0 is: : Infrastructure Mode : wireless	×
nstallomeld	< <u>B</u> ack <u>Next</u> >	Cancel

5. The Setup Wizard has finished the installation of Wireless LAN Utility. Click **Finish** to exit.



After you have installed the utility, you will see the wireless utility icon in the Windows taskbar.

Using Wireless Utility In Windows XP



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

Use Windows Wireless Network Configuration

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



2. Click Windows Wireless Network Configuration icon.



Windows Wireless Network Configuration

3. Click Advanced button.

Connect to Wireles	s Network	? 🔀
The following network(it from the list, and then	s) are available. To access i click Connect.	a network, select
Available <u>n</u> etworks:		
🛔 wireless		
	A AN 25 W.Y. 455	
This network requires t this network, type the k	he use of a network key (W key, and then click Connect	'EP). To access -
Network <u>k</u> ey:		
If you are having difficu	ulty connecting to a network	, click Advanced.
Advanced	Connect	Cancel

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

ks Advanced	
igure my wireless net able network, click C	work settings onfigure.
	<u>C</u> onfigure R <u>e</u> fresh
o avaliadie newvorks	Move up
	Move down
	(constraint of the second of
emove Proper	ties
	Ks Advanced gure my wireless net able network, click C

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



Windows Wireless Network Configuration

6. Select an available network and click Connect button.

Connect to Wi	reless Network	? 🔀
The following nel it from the list, an Available <u>n</u> etworl	work(s) are available. To access a network d then click Connect. <s:< td=""><td>, select</td></s:<>	, select
🗼 wireless		
This network rea	uires the use of a network key (WEP). To a	ccess
this network, type	the key, and then click Connect.	
Network <u>k</u> ey:		
If you are having	difficulty connecting to a network, click Ad	vanced.
Advanced	<u>C</u> onnect Car	ncel

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



Windows Wireless Network Configuration is enabled

8. Click Properties to start Windows Wireless Network Configuration.

Wireless Netwo	rk Connection 9 Status
- Connection	
Status:	Connected
Duration:	01:01:59
Speed:	11.0 Mbps
Signal Strength:	T.111
Activity	Sent — ᇌ — Received
Packets:	329 14
Properties	Disable
	Close

Use Wireless LAN Utility

1. Exit the Wireless LAN Utility.



2. Click Windows Wireless Network Configuration icon.



Windows Wireless Network Configuration

3. Click Advanced button.

Connect to Wireles	s Network	? 🔀
The following network(it from the list, and then	s) are available. To access i click Connect.	a network, select
Available <u>n</u> etworks:		
🛔 wireless		
	A AN 25 W.Y. 455	
This network requires t this network, type the k	he use of a network key (W key, and then click Connect	'EP). To access -
Network <u>k</u> ey:		
If you are having difficu	ulty connecting to a network	, click Advanced.
Advanced	Connect	Cancel

4. Make sure "Use windows to configure my wireless network settings" is unchecked and then click OK button.

General Wireless N	letworks Advan	ced
Use <u>W</u> indows to	o configure my wir	eless network settings
- Available network	(a)	
To connect to ar	va. 1 available network	<, click Configure.
🛔 wireless		Configure
		Refresh
Automatically cor below:	(s: nnect to available	networks in the order listed
		Move up
		Move <u>up</u> Move <u>d</u> own
Add	<u> </u>	Move <u>up</u> Move <u>d</u> own Properties
Add Learn about <u>settir</u> configuration.	<u>R</u> emove	Move <u>up</u> Move <u>d</u> own Properties

5. Click Start -> All Programs -> IEEE802.11b WLAN USB Adapter v3.0 then click IEEE802.11b WLAN USB Adapter Utility to restart Wireless LAN Utility.



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



Wireless LAN Utility

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

IEEE802.11b WLAN USB Adapter Utility
Link Info Configuration Site Survey Encryption Advanced About
State Disconnected
Current Transfer Rate Mbps
Current Service Set Identifier Throughput (Bytes/Second) Transmitted Received
Link Quality: Signal Strength:
OK Cancel Help

Use Wireless LAN Utility In Windows 98, ME and 2000



Wireless LAN Utility icon

lcon	Meaning
3 -11	Green: indicates a connection is linked to a wireless network.
-	Red: indicates that the wireless LAN card is looking for an available access point.

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

Configuring the USB Wireless Network Adapter

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

IEEE802.11b WLAN USB Adapter Utility	×
Link Info Configuration Site Survey Encryption Advanced About	ų
State Connected - BSSID = 00-02-DD-30-15-CC	
Current Channel 6 Re-Scan	
Current Transfer Rate 11 Mbps	
Current Service Set Identifier wireless	
Throughput (Bytes/Second) Transmitted	
Signal Strength: Excellent (100%)	
OK Cancel Help	

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

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

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

EE802.11b WL	AN USB Adapter Utility			2
Link Info Confi The list conta update the lis Access Point	iguration Site Survey Enc ains available Access Points a t, click 'Search' button, You o from the list, and click 'Conn	ryption] , and their f can selec ect' butto	Advanced eatures. To t a desired n to conne	About D
the specified SSID wireless	Access Point. BSSID 00-02-DD-30-15-CC	Signal 100%	Channel 6	WEP No
<u>.</u>			1	Þ
I	Search	Connect		

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

ed vour network, or your
ed 🔻
and the second sec
ed
ts

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

Fragmentation Threshold			<u>''</u> \]
(Disabled)		2432	
RTS/CTS Threshold (Disabled)	-	2422	<u> </u>
-	-		
'reamble Type Long	<u> </u>		

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

IEEE802.11b WLAN USB Adapter Utility	x
Link Info Configuration Site Survey Encryption Advanced About	1
Copyright (c) 2002, All rights reserved. IEEE802.11b WLAN USB Adapter Utility	
_ Driver	
Version: 2.0.2.37	
Configuration Utility Version: 2.97.15.216	
Firmware Versions: 1.04.02.00	
OK Cancel Help	

Chapter 5 – Installing Network Protocols

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

Installing the Network Protocols for Windows 98 and ME

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





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

2. Select *IEEE802.11b WLAN USB Adapter v3.0* from the list and click the **Add** button.

Network ?	×
Configuration Identification Access Control	110
The following <u>n</u> etwork components are installed:	
Client for Microsoft Networks Microsoft Family Logon Did Up Advants	
IEEE802.11b WLAN USB Adapter v3.0	
TCP/IP -> Diar-Up Adapter TCP/IP -> IEEE802.11b WLAN USB Adapter v3.0	
Add Remove Properties	
Primary Network Logon: Microsoft Family Logon	
Description A network adapter is a hardware device that physically connects your computer to a network.	
OK Cancel	

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

lect Network Component Type	1
Click the type of network component you want to ins	itall:
Lient	<u>Add</u>
Protocol	Cancel
Service	
Protocol is a 'language' a computer uses. Compute	rs

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

Select Network Protoc	ol 🗙
Click the Netw an installation of	ork Protocol that you want to install, then click OK. If you have disk for this device, click Have Disk.
<u>M</u> anufacturers:	Network Protocols:
🖗 Banyan	Microsoft 32-bit DLC
iBM	Microsoft DLC
Y Microsoft	🙀 NetBEUI
🖣 Novell	TCP/IP
	WAN support for ATM
	Winsock2 ATM Service Provider
	Have Disk
a	Ţ.
	OK Cancel

Appendix A – FAQ

1. What is IEEE 802.11 standard?

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

2. What is WEP?

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

3. My notebook / desktop PC cannot recognize the USB Wireless Network Adapter.

- Please make sure that the Adapter is inserted into the USB port of your notebook / desktop PC properly.
- And also make sure that the USB controller is enabled in the BIOS of your notebook / desktop PC.

4. How to check that the USB controller on my notebook / desktop PC is working properly?

Right click on My Computer and select Properties. Click on the Device Manager tab and select the Universal Serial Bus Controllers. Click on Properties button. In the General tab, check under "Device status" that the USB controller is working properly.

5. The Adapter does not work properly.

Check that the Adapter drivers are loaded properly. You can easily check it through the Network Adapter (Right click on My Computer and select Properties. Click on the Device Manager tab and select the Network Adapter). If there is a yellow exclamation mark on USB Wireless Network Adapter, the resource may be conflicting. Please uninstall the Adapter and restart your notebook / desktop PC. The repeat hardware and software installation as specified in this manual.

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

- First, make sure that the SSID is same as the others PC.
- Check that your Adapter is configured on the same channel & WEP as the others PCs on the network.

Appendix B – Specifications

Standards:	IEEE 802.11b USB 1.0, 1.1
Channels:	11 Channels (US, Canada) 13 Channels (Europe) 14 Channels (Japan)
Antenna:	Dipole Antenna inside
Frequency:	2.412 to 2.4835GHz (Industrial Scientific Medical Band)
Data Rate:	up to 11Mbps
Operating Ranges:	Indoor (varies depends on the environment): Up to 50M @ 11Mbps Up to 80M @ 5.5Mbps Outdoor (varies depends on the environment): Up to 150M @ 11Mbps Up to 300M @ 5.5Mbps
Temperature:	Operating: 0° ~ 55° C Storage: -25° ~ 70° C
Humidity:	10% to 90% (non-condensing)