

Wireless LAN Adapter Series





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The product you have purchased and the setup screen may appear slightly different from those shown in this QIG. For more detailed information about this product, please refer to the User's Manual on the CD-ROM. The software and specifications are subject to change without notice. Please visit our web site <u>www.edimax.com</u> for the update. All right reserved including all brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

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CHAPTER I: Product Information

1-1 Introduction and safety information

Thank you for purchasing this high-speed 802.11b/g and 11b/g/n wireless network card!!

Main Features

- Complies with 802.11n, 802.11g and 802.11b standards.
- Provides further coverage, less dead spot and high throughput (11n Adapter Up to 300Mbps with MIMO technology).
- Supports WMM, WMM-PS (IEEE 802.11e QoS standard).
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x),WPA2 (AES with IEEE 802.1x) for high security level.
- Supports operating system: Windows OS 2000/XP/Vista, MAC OS 10.4.x /10.5.x and Linux
- Supports WPS configuration button. (EW-7717Un, EW-7727In, EW-7738Pn, EW-7748In only)
- Supports USB 2.0/1.1 interface. (EW-7717Un, EW-7718Un, EW-7318Ug, EW-7318USg, only)

1-2 Safety Information

In order to keep the safety of users and your properties, please follow the following safety instructions:

- 1. This wireless network card is designed for indoor use only. DO NOT expose this network card to direct sun light, rain, or snow.
- 2. DO NOT put this network card at or near hot or humid places, like kitchen or bathroom. Also, do not left this wireless network card in the car in summer.
- 3. This network card is small enough to put in a child's mouth, and it could cause serious injury or could be fatal. If they throw the network card, the card will be damaged. PLEASE KEEP THIS NETWORK CARD OUT THE REACH OF CHILDREN!
- 4. This network card will become hot when being used for long time (*This is normal and is not a malfunction*). DO NOT put the network card on a paper, cloth, or other flammable objects after the network card has been used for a long time.
- 5. There's no user-serviceable part inside the network card. If you found that the network card is not working properly, please contact your dealer of purchase and ask for help. DO NOT disassemble the network card by your self, warranty will be void.
- 6. If the network card falls into water, DO NOT USE IT AGAIN BEFORE YOU SEND THE CARD TO THE DEALER OF PURCHASE FOR INSPECTION.
- 7. If you smell something strange or even see some smoke coming out from the network card, switch the computer off immediately, and call dealer of purchase for help.

1-3 System Requirements

EW-7318Ug / EW-7318USg / EW-7717Un / EW-7718Un

- CPU : Pentium III 1G above or similar
- Memory size : 256MB RAM
- One CD-ROM drive
- Hard Disk : At least 100MB available space
- One available USB 2.0 port (May not work on USB 1.1 port, and performance will be greatly reduced)
- Operation System : Windows 2000/XP/Vista, Mac 10.4.x and above or Linux

EW-7108PCg / EW-7708Pn

- CPU : Pentium III 1G above or similar
- Memory size : 256MB RAM
- One CD-ROM drive
- Hard Disk : At least 100MB available space
- One available PCMCIA type II slot (Cardbus compatible)
- Operation System : Windows 2000/XP/Vista, Mac 10.4.x and above or Linux

EW-7128g / EW-7727In / EW-7728In

- CPU : Pentium III 1G above or similar
- Memory size : 256MB RAM
- One CD-ROM drive
- Hard Disk : At least 100MB available space
- One available PCI slot
- OS: Windows 2000/XP/Vista, Mac 10.4.x and above or Linux

EW-7738Pn

- CPU : Pentium III 1G above or similar
- Memory size : 256MB RAM
- One CD-ROM drive
- Hard Disk : At least 100MB available space
- One available PCIe ExpressCard slot
- OS: Windows 2000/XP/Vista, Mac 10.4.x and above or Linux

EW-7748In

- CPU : Pentium III 1G above or similar
- Memory size : 256MB RAM
- One CD-ROM drive
- Hard Disk : At least 100MB available space
- One available PCIe slot
- OS: Windows 2000/XP/Vista, Mac 10.4.x and above or Linux

1-4 Package Contents

Before you starting to use this wireless network card, please check if there's anything missing in the package, and contact your dealer of purchase to claim for missing items:

EW-7717Un / EW-7718Un

- Wireless USB Adapter x1
- USB cable with stand x1
- Quick Installation Guide x1
- CD (EZmax Wizard / Utility, Multi-language Quick Installation Guide & User Manual) x1

EW-7318Ug

- Wireless USB Adapter x1
- □ USB Cable x1
- □ Quick Installation Guide x1
- CD (EZmax Wizard / Utility, Multi-language Quick Installation Guide & User Manual) x1

EW-7318USg

- Wireless USB Adapter x1
- □ USB Cable x1
- adBi Antenna x1
- □ Quick Installation Guide x1
- CD (EZmax Wizard / Utility, Multi-language Quick Installation Guide & User Manual) x1

EW-7108PCg / EW-7708Pn

- □ Wireless Cardbus Adapter x1
- □ Quick Installation Guide x1
- CD (EZmax Wizard / Utility, Multi-language Quick Installation Guide & User Manual) x1

EW-7128g

- Wireless PCI Adapter x1
- □ Antenna with cable x1
- Quick Installation Guide x1
- CD (EZmax Wizard / Utility, Multi-language Quick Installation Guide & User Manual) x1

EW-7727In

- Wireless PCI Adapter x1
- □ 3dBi Antenna x2
- Quick Installation Guide x1
- CD (EZmax Wizard / Utility, Multi-language Quick Installation Guide & User Manual) x1

EW-7728In

- Wireless PCI Adapter x1
- □ 3dBi Antennas x3
- □ Quick Installation Guide x1
- CD (EZmax Wizard / Utility, Multi-language Quick Installation Guide & User Manual) x1

EW-7748In

- Wireless network PCIe card x1
- □ Quick installation guide (1 pcs)
- CD (EZmax Wizard / Utility, Multi-language Quick Installation Guide & User Manual) x1

EW-7738Pn

- □ Wireless network ExpressCard x1
- □ Quick installation guide x1
- CD (EZmax Wizard / Utility, Multi-language Quick Installation Guide & User Manual) x1

1-5 Familiar with your new wireless network card

EW-7318Ug

- 1. USB Connector
- 2. Connector Cap (To protect USB connector when not in use)
- 3. Link/Activity LED



LED Name	Light Status	Description
Link/	On	Linked to a wireless access point / Transferring data
Activity	Off	No wireless activity

EW-7318USg

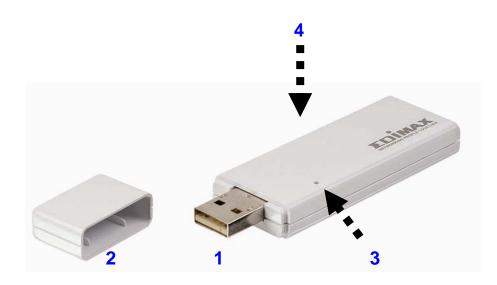
- 1. USB Connector
- 2. Connector Cap (To protect USB connector when not in use)
- 3. 4 dBi Hi-Gain detachable Antenna
- 4. Link/Activity LED



LED Name	Light Status	Description
Link/	On	Linked to a wireless access point / Transferring data
Activity	Off	No wireless activity

EW-7717Un

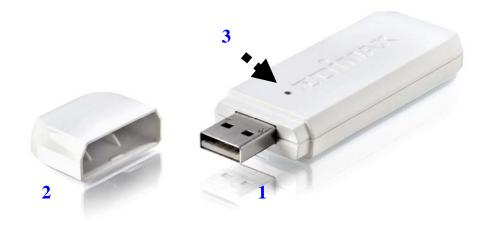
- 1. USB Connector
- 2. Connector Cap (To protect USB connector when not in use)
- 3. Link/Activity LED
- 4. WPS Button (Press to activate WPS pairing mode)



LED Name	Light Status	Description
Link/	On	Linked to a wireless access point / Transferring data
Activity	Off	No wireless activity

EW-7718Un

- 1. USB Connector
- 2. Connector Cap (To protect USB connector when not in use)
- 3. Link/Activity LED



LED Name	Light Status	Description
Link /	On	Linked to a wireless access point / Transferring data
Activity	Off	No wireless activity

EW-7108PCg

- 1. PCMCIA Interface
- 2. CardBus golden stripe*
- 3. 'Link' LED
- 4. 'Activity' LED



*This stripe should be faced up when inserted to PCMCIA slot of your computer, or as instructed.

LED Name	Light Status	Description
Link	On	Linked to a wireless access point
LINK	Off	Not linked to any wireless access point
	Flashing	Transferring / receiving data
Activity	Off	No wireless activity

EW-7708Pn

- 1. PCMCIA Interface
- 2. CardBus golden stripe*
- 3. 'Link' LED
- 4. 'Activity' LED



*This stripe should be faced up when inserted to PCMCIA slot of your computer, or as instructed.

LED Name	Light Status	Description
Link	On	Linked to a wireless access point
Link	Off	Not linked to any wireless access point
Activity	Flashing	Transferring / receiving data
	Off	No wireless activity

EW-7128g

- 1. PCI Interface
- 2. Detachable Antennas with Cable
- 3. 'Link' LED
- 4. 'Tx / Rx' LED



LED Name	Light Status	Description
Link	On	Linked to a wireless access point
Link	Off	Not linked to any wireless access point
Tx/Rx	Blinking	Transferring / receiving data
	Off	No wireless activity

EW-7727In

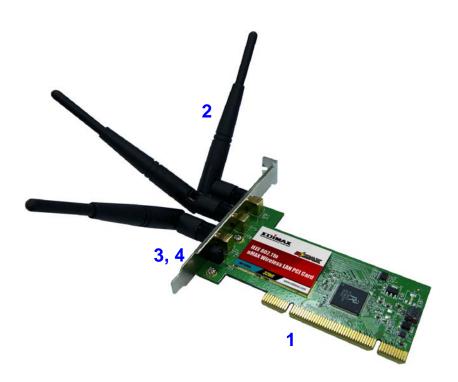
- 1. PCI Interface
- 2. Antennas (2x)
- 3. 'Link' LED
- 4. 'Tx / Rx' LED
- 5. WPS Button



LED Name	Light Status	Description
Link	On	Link to a wireless access point
Link	Off	Not linked to any wireless access point
T. (D.)	Blinking	Transferring / receiving data
Tx/Rx	Off	No wireless activity

EW-7728In

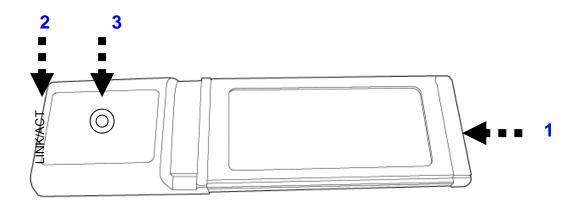
- 1. PCI Interface
- 2. Antennas (3x)
- 3. 'Link' LED
- 4. 'Tx / Rx' LED



LED Name	Light Status	Description
Link	On	Linked to a wireless access point
LINK	Off	Not linked to any wireless access point
	Blinking	Transferring / receiving data
Tx / Rx	Off	No wireless activity

EW-7738Pn

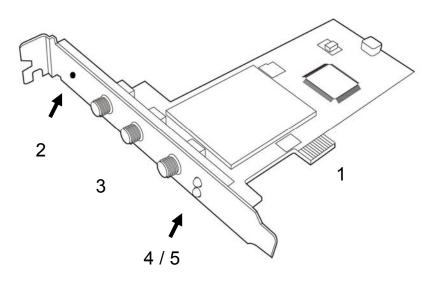
- 1. ExpressCard Interface
- 2. Link/Activity LED
- 3. WPS Button (Press to activate WPS pairing mode)



LED Name	Light Status	Description
Link/	On	Linked to a wireless access point / Transferring data
Activity	Off	No wireless activity

EW-7748In

- 1. PCIe Interface
- 2. WPS Button
- 3. Antenna Connectors (3x)
- 4. 'Link' LED
- 5. 'Tx/Rx' LED



LED Name	Light Status	Description
Link	On	Linked to a wireless access point
Link	Off	Not linked to any wireless access point
T. (D.)	Blinking	Transferring / receiving data
Tx/Rx	Off	No wireless activity

CHAPTER II: DRIVER INSTALLATION AND CONFIGURATION

2-1 Network Card Installation

Please follow the following instructions to install your new USB wireless network card:

EW-7318Ug / EW-7318USg / EW-7717Un / EW-7718Un

- 1. Fasten the antennas to the antenna connectors on the network card by clockwise direction. (**EW-7318USg only**)
- 2. Insert the USB wireless network card into an empty USB 2.0 port of your computer when computer is switched on.

Never use force to insert the card, if you feel it's stuck, flip the card over and try again.

3. The following message will appear on your computer, click 'Cancel'.



EW-7128g / EW-7727In / EW-7728In / EW-7748In

- SWITCH THE COMPUTER OFF, remove the cover and insert the wireless network card into an empty PCI slot (EW-7128g/ EW-7727In /EW-7728In) or PCIe slot (EW-7748In) of your computer.
- 2. Fasten the antennas to the antenna connectors on the network card by clockwise direction.
- 3. You can bend the antenna to fit actual needs.
- 4. To improve radio reception, please adjust antennas to the position shown in the picture.
- 5. Switch the computer on, the following message will appear on your computer, please click 'cancel'.



EW-7108PCg / EW-7708Pn / EW-7738Pn

 Please insert the wireless network card into an empty PCMCIA slot (EW-7108PCg/EW-7708Pn) or ExpressCard slot (EW-7738Pn) of your computer. You can insert the card when the computer is power off or on

Don't use force to insert the card into PCMCIA or PCIe ExpressCard slot; if you feel it get stuck, remove it and flip the card upside down, and then try again

2. The following message will appear on your computer, click 'Cancel'.



2-2 Software Installation

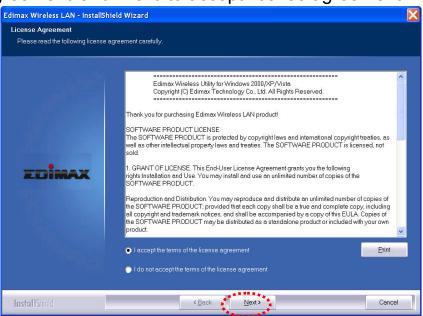
This wizard can be run in Windows 2000/XP/Vista. The following procedures are operated in Windows XP.

You can install the Wireless Adapter by EZMAX Setup Wizard in the CD-ROM including in the package. The wizard is an easy and quick configuration tool for internet connection with series process. When you start EZMAX Setup Wizard, you will get the following welcome screen. Please choose the language to start the configuration. The wizard will guide you to finish your network connection. We will not provide any instruction for the EZMAX Setup Wizard here.

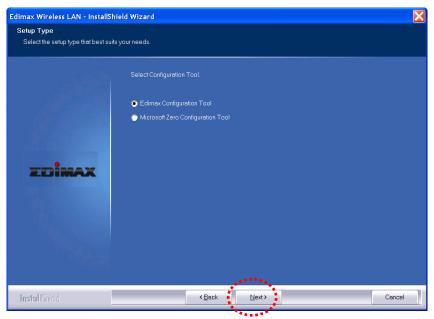


If you lose the CD ROM or you prefer the traditional setup procedure, please follow the instruction as following step in this quick installation guide.

2.2.1 Please execute 'Edimax_xxxx_Setup.exe' program to install your wireless adapter. Please read the end user license agreement and click 'I accept the terms of the license agreement' and 'Next' to accept license agreement.



2.2.2 You can choose the configuration tool used to configure the wireless network card here. It's recommended to select 'Edimax Configuration Tool', which provides fully access to all function of this wireless network card. If you prefer to use the wireless configuration tool provided by Windows XP or Vista, please select 'Microsoft Zero Configuration Tool', and then click 'Next'.

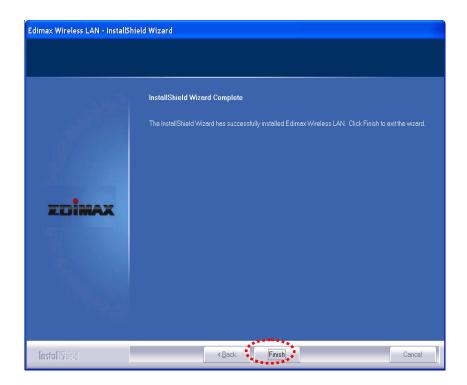


2.2.3 Please select 'Optimize for WiFi mode' for wireless compatibility, then click 'Next'.

If you want to enhance wireless performance, please select 'Optimize for performance mode'. However, wireless compatibility is not guaranteed in this mode. Please refer to user manual for details of performance mode.

Edimax Wireless LAN - InstallS	hield Wizard	X
Setup Type Select the setup type that best su	its your needs.	
	Choose Configuration TxBurst or WIFi.	
	 Optimize for WiFi mode 	
	💿 Optimize for performance mode	
ZDİMAX		
LUIMAA		
InstallShield	<back next=""></back>	Cancel

2.2.4 When you see this message, please click 'Finish' to complete the driver installation process.



2-3 Connect to Wireless Access Point

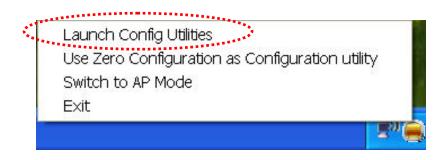
After the driver is correctly installed, it will try to connect to any unencrypted wireless access point automatically. If you want to connect to a specific wireless access point, or the access point you wish to connect uses encryption, you have to configure the wireless network card and input required parameters, to get connected to the wireless access point you wish to connect.

There are two ways you can configure your wireless network card to connect to wireless access point: using the Edimax configuration utility which comes with wireless card driver, and using built-in windows zero configuration utility.

2-3-1Using Edimax Wireless Utility

Please follow the following instructions to use Edimax configuration utility to connect to wireless access point.

1. Right-click the Edimax configuration utility icon located at lower-right corner of computer desktop, then click 'Launch Config Utilities'.



2. Configuration utility will scan for all wireless access points automatically. Scan results will be displayed here, please check if the wireless access point with the SSID (the name of wireless access point) you preferred is shown here.

If the wireless access point you wish to connect does not show here, please click 'Rescan' to try again, until the one you preferred is displayed. You may have to click 'Rescan' for more than two times before you can see the access point you wish to use here sometimes.

If you still can not see the access point you wish to use after clicking 'Rescan' for more than five times, please move your computer closer to the location where the wireless access point is, or see instructions in chapter 4-2 'Troubleshooting'.

SSID	BSSID	Signal	Channel	Encryption	Authentication	Network Ty
Free Public .	02-0E-35-00-C7-42	34%	11	None	Unknown	Ad hoc
😸 Sitecom	00-0E-2E-44-81-C0	55%	11	None	Unknown	Infrastructu
FAE	00-1C-10-AA-FE-0D	20%	1	AES	WPA2-PSK	Infrastructu
6FGUEST	00-0E-2E-6E-FB-87	86%	2	WEP	Unknown	Infrastructu
6F	00-0E-2E-91-51-D4	50%	3	TKIP	WPA-PSK	Infrastructu
6FEMAX2	00-0E-2E-94-29-CD	50%	6	None	Unknown	Infrastructu
SO	00-50-FC-BA-18-C8	0%	6	None	Unknown	Infrastructu
6F_EMAX	00-0E-2E-FF-FF-01	100%	11	None	Unknown	Infrastructu
Vali						
<						>
Connected <>	Sitecom	Re	escan	Conne	ect Add	d to Profile

Here are descriptions of every setup item:

SSID:	The Service Set Identifier of wireless access point or other network device. You can think it as the name of access point of wireless device.
BSSID:	The MAC address of wireless access point or other network device. Unlike SSID, BSSID of every access point or network device is unique, and will not be the same with others. So you can identify a single access point or wireless device from others by BSSID, if they all have the same SSID.
Signal:	Shows the signal strength of access point or wireless device. Larger number means better radio strength, which often means you're not too far from that access point or wireless device.
Channel:	Shows the channel number that access point or wireless device uses.
Encryption:	Shows the encryption method that access point or wireless device uses. If the wireless access point does not enable encryption, you'll see 'None' displayed here.
Authentication:	Shows the authentication mode that access point or wireless device uses. If the wireless access point does not require authentication, you'll see 'Unknown' displayed here.

Network Type: Shows the type of wireless connection. If it's a wireless access point, 'Infrastructure' will be displayed here; if it's a computer or network device, 'AdHoc' will be displayed here.

Tips:

Wireless access point (Infrastructure) is a network device which acts as a bridge, to let wired and wireless network devices communicate with each other.

AdHoc is another connection type. A computer or network device can establish a direct wireless link with other computer or network device directly, without the help of wireless access point. 3. Click the wireless access point or network device you wish to connect, it will be highlighted, then click 'Connect'.

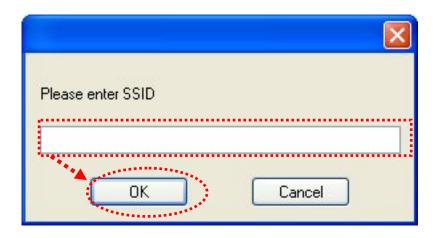
6FGUEST 00-0E-2E-6E-FE-87 81% 2 WEP Unknown Infrastructure GF 00-0E-2E-01-51-D4 15% 3 TKIP WPA-PSK Infrastructure WPSWPS1000 00-C0-A8-C3-15-80 24% 4 None Unknown Infrastructure WPSWPS1000	SSID 6FEMAX2 FAE	BSSID 00-0E-2E-94-29-CD 00-1C-10-4A-FE-0D	Sign 24%	6 1	Encryption None	Authentic Unknown WDA2-D	Network Typ Infrastructure
WPSWPS1000 00-C0-A8-C3-15-80 24% 4 None Unknown Infrastructure Infrastructure Infrastructure Infrastructure Infrastructure Infrastructure	6FGUEST	00-0E-2E-6E-FB-87	81%	2	WEP	Unknown	Infrastructure
							Infrastructure
					1		
	:				•		
)isconnected		Rescar	1			

If the access point you selected does not enable encryption (The content of 'Encryption' field of the access point you selected is 'None', you'll be connected to this wireless access point within one minute. Please jump to step 6.

If the access point you selected enables encryption, please proceed to next step.

4. If the wireless access point does not have SSID, you'll be prompted to input it here. Please ask the owner of wireless access point and input the exact SSID here, then click 'OK' when ready. If the SSID you provided here is wrong, you'll not be able to connect to this access point.

If the wireless access point you selected have SSID, please skip this step.



5. If the wireless access point uses encryption, you have to input WEP passphrase or WPA preshared key. Please ask the owner of the wireless access point you want to connect, and input the correct passphrase / preshared key here, then click 'OK'. If the value you inputted here is wrong, you will not be able to connect to this wireless access point.

Authentication type is selected automatically, please don't change it.

If the access point you selected does not enable encryption and does not require authentication, please skip this step.

Authentication and S	ecurity
Authentication Type :	Open Use 802.1x 802.1x Setting
Encryption :	WEP
WPA Preshared Key :	
Wep Key	
í€ Key#1	
C Key#2	Hex
⊂ Key#3	Hex
C Key#4	Hex
	ption: Please Keyin 10 HEX characters or 5 ASCII characters yption: Please Keyin 26 HEX characters or 13 ASCII characters
	Show Password
1. A.,	OK Cancel

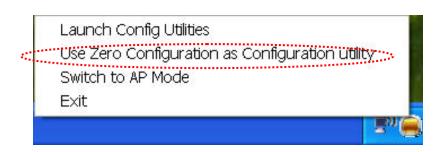
6. You'll see 'Connected <-> SSID' ('SSID' is the SSID of the wireless access point or wireless device you connected to) message displayed at lower-left corner of configuration utility, congratulations, you're successfully connected to the access point or wireless device you selected!

SSID 6FEMAX2 FAE	BSSID 00-0E-2E-94-29-CD 00-1C-10-AA-FE-0D	Sign 24% 29%	Ch 6	Encryption None AES	Authentic Unknown WPA2-P	Network Typ Infrastructure Infrastructure
6FGUEST	00-0E-2E-6E-FB-87	76%	2	WEP	Unknown	Infrastructure
0F WPSWPS1000	00-0E-2E-91-51-D4 00-C0-A8-C3-15-80	10% 39%	4	TKI P None	Unknown	 Infrastructure Infrastructure
·					1	>
Connected <> 6FGI	JEST	Resca	n	Conne	ctA	dd to Profile
inected <> 6FGI	JEST	Resca	n	Conne	ct A	dd to Profile

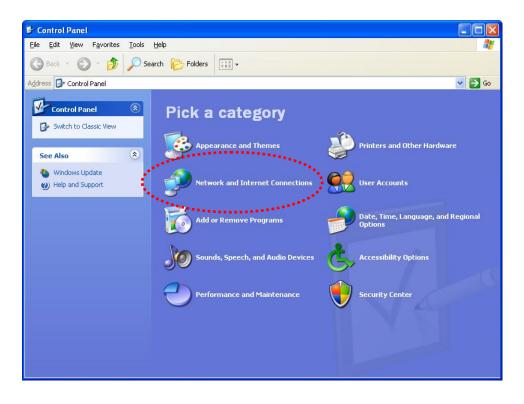
2-3-2Using Windows Zero Configuration

Windows XP and Vista has a built-in wireless network configuration utility, called as 'Windows Zero Configuration' (WZC). You can also use WZC to configure your wireless network parameter:

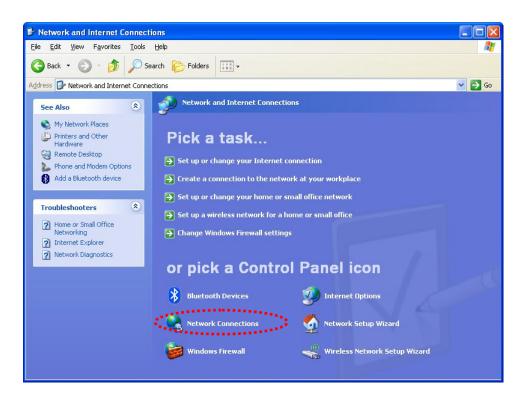
1. Right-click Edimax configuration utility icon and select 'Use Zero Configuration as Configuration utility.



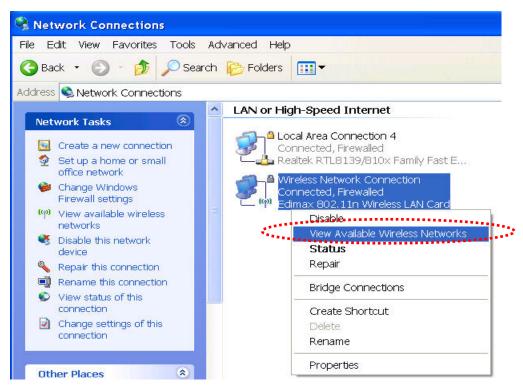
2. Click 'Start' button (should be located at the bottom-left corner of windows desktop), click 'Control Panel', then click 'Network and Internet Connections' in Control Panel.



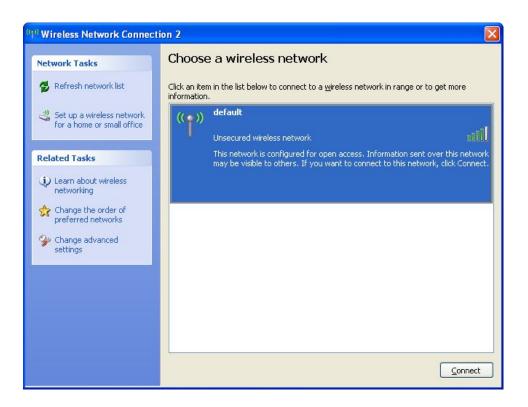
3. Click 'Connect to a network' under 'Network Connections'



4. Right-click 'Wireless Network Connection' (it may have a number as suffix if you have more than one wireless network card, please make sure you right-click the 'Edimax 802.11n Wireless LAN Card), then select 'View Available Wireless Networks'.



5. All wireless access points in proximity will be displayed here. If the access point you want to use is not displayed here, please try to move your computer closer to the access point, or you can click 'Refresh network list' to rescan access points. Click the access point you want to use if it's shown, then click 'Connect'.

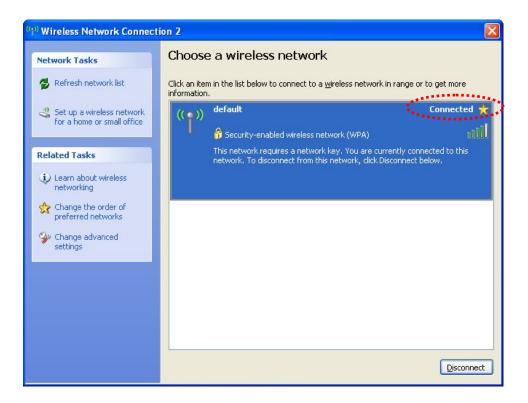


6. If the access point is protected by encryption, you have to input its security key or passphrase here. It must match the encryption setting on the access point.

If the access point you selected does not use encryption, you'll not be prompted for security key or passphrase.

Wireless Network Connection				
	uires a network key (also called a WEP key or WPA key). A It unknown intruders from connecting to this network. lick Connect.			
Network <u>k</u> ey:	L			
Confirm network key:				
	<u>Connect</u> Cancel			

7. If you can see 'Connected' message, the connection between your computer and wireless access point is successfully established.

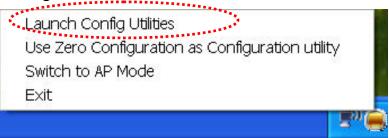


2-4 Connection Profile Management

If you need to connect to different wireless access points at different time, like of access point of your home, office, cybercafe, or public wireless service, you can store the connection parameters (encryption, passphrase, security etc, etc.) as a profile for every access point, so you don't have in input these parameters every time you want to connect to a specific wireless access point.

2-4-1 Make a profile for an access point or wireless device

1. Right-click the Edimax configuration utility icon located at lower-right corner of computer desktop, then click 'Launch Config Utilities'.



2. There are two ways to add a new connection profile:

Create a new profile, or Add a profile from an existing wireless access point or wireless device

If you want to click new profile, click 'Profile' tab, then click 'Add' button:

Profile Name	SSID	Channel	Authentication	Encryption	Network Type

Add	De	lete	Edit		Activate
*********				,	

Or, you can add a connected wireless access point or wireless device to a profile by clicking 'Site Survey' tab, then click 'Add to Profile' button:

SID 6F_EMAX	BSSID 00-0E-2E-FF-FF-01	Sign 100%	Ch	Encryption None	Authentic Unknown	Network Type Infrastructure
default	00-0E-2E-E1-D4-29	20%	11	None	Unknown	
6FGUEST	00-0E-2E-6E-FB-87	70%	2	WEP	Unknown	Infrastructure
FAE	00-10-10-AA-FE-0D			AES	WPA2-P	Infrastructure
6F	00-0E-2E-91-51-D4	20%	3	TKIP	WPA-PSK	Infrastructure
WPSWPS1000	00-C0-A8-C3-15-80	44%	4	None	Unknown	Infrastructure
6FEMAX2	00-0E-2E-94-29-CD	34%	6	None	Unknown	Infrastructure
1						
nnected <> 6FGl	IEST	Resca		Conne	. 1	dd to Profile
micelea v or al	0201	Resta	n	Conne	Ci P	ad to Prome

Profile Name PROF1			6FGUEST	
, PSM				
CAM (Constantly Awake	Mode)	C PSM	(Power Saving Mode)	
Network Type	tructure	▼ TXPower	Auto	•
Preamble Auto		<u> </u>		
RTS Threshold	· 0		2347 2347	
Fragment Threshold	256 .		2346 2346	

And you can set the parameter for this connection here:

Here are descriptions of every setup items:

Profile Name	Please give this profile a name, up to 32 alphanumerical characters and symbols are allowed, but space is not allowed.
SSID	The SSID of the wireless access point or wireless device you selected will be displayed here. But if the SSID of access point or wireless device is not available, you have to input it here manually.
PSM:	Please select CAM (constantly awake mode, keep
(Power Saving Mode)	the wireless radio activity when not transferring data), or PSM (Power saving mode, switches radio off when not transferring data).

	It's recommended to choose 'PSM' if you're using this network card with notebook computer to help the battery live longer.
Network Type	Select network type ('Ad Hoc' or 'Infrastructure'). If you're adding a profile from an existing access point or wireless device, it's automatically selected and you don't have to change it.
Preamble	This option is only available when the network type is 'Ad hoc'. You can select 'Auto' or 'Long Preamble'. Please select 'Auto' if you don't know what it is.
RTS Threshold	Check the box and you can set RTS threshold manually here. Do not modify default setting unless you know what it is.
Fragment	Check the box and you can set fragment threshold
Threshold	manually here. Do not modify default setting unless you know what it is.

Now click 'Authentication and Security' tab, and set the encryption and authentication settings.

/pe :	Open		•	Use	802.1×	1	802.1x	Setting
	WEP							
Key:								
	<i>.</i>							
ASCII		•	slololok					
Hex		•						
Hex		•						
Hex		•						
Encryption: s Encryption:	Please Ke Please K	eyin 10 I Ceyin 26	HEX charac HEX chara	ters or 57	ASCII cha 3 ASCII cl	racters haracte	ers	
	ASCI Hex Hex Hex Encryption:	Key : WEP	Key : ASCI Hex Hex Hex Encryption: Please Keyin 10 H	WEP Key : ASCII Hex Hex Hex Hex Encryption: Please Keyin 10 HEX character	WEP Key : ASCII	WEP Key : ASCII Hex Hex Hex Image: Association of the second s	WEP Key : ASCI Hex Hex Hex Encryption: Please Keyin 10 HEX characters or 5 ASCII characters	WEP Key: ASCII

Here are descriptions of every setup items:

Authentication	Select the authentication type of the wireless
access	
Туре	point or wireless device you wish to connect. If you're adding a profile from an existing access point or wireless device, the value will be selected automatically, and please do not modify it.
	If you select 'LEAP', the following message will be displayed. Please input LEAP identity, password, domain name, and select encryption type. You can check 'Show Password' box so the password you inputted will be displayed as you type, but not replace by asterisk.

Edit Profile			X
Configuration Authentication and Secu	urity		1
Authentication Type : LE	AP 💌		
Identity			
Password			
Domain Name			
WEP	C WPA-TKIP	C WPA2-AES	
		C Show Pass	sword
		OK Cancel	Apply

- Encryption: Select the encryption type of the wireless access point or wireless device you wish to connect. If you're adding a profile from an existing access point or wireless device, the value will be selected automatically, and please do not modify it.
- WPA Input WPA preshared key here. If encryption is not
 Preshared Key enabled, or you select 'WEP' as encryption type, this field will be disabled and grayed out.
 WEP Key You can select key type (Hex or ASCII) and input WEP key here. If encryption is not enabled, or you select 'WPA' as encryption type, this field will be disabled and grayed out.

Show Password Check this box and all passphrases or security keys you inputted will be displayed as you type, but not replace your input with asterisk.
 Use 802.1x Enable 802.1x wireless authentication. Please click '802.1x Setting' button to set 802.1x parameters. (See next section).

After you finish all settings, clicking 'Activate', then click 'OK' to save settings and exit. The profile you just created will be displayed:

Profile Link Status Site Survey Statistics Advanced QoS WPS Configuration About Profile List Profile Name SSID Channel Authentication Encryption Network Type Profile Profile Name SSID Channel Authentication Encryption Network Type Profile Profile Profile Network Type Infrastructure Profile Auto Open WEP Infrastructure Auto Delete Edit Activate		imax Wireless						
Profile Name SSID Channel Authentication Encryption Network Type PROFI 6FGUEST Auto Open WEP Intrastructure		100	Site Survey Statistic	s Advance	d QoS WPS C	onfiguration A	.bout	
PROFI BFGUEST Auto Open WEP Infrastructure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: Structure Image: St	P			Channel	A		Network Tons	
					Open		Infrastructure	
	1							
		1						
							+	
		Add	D	elete	Edit		Activate	
								1
							ОК	

Select the profile you wish to use, and click 'Activate' to use the profile you selected. You can only activate a profile a time, and the profile which is activated currently will have a green check (\checkmark) before its name. If the wireless access point is not reachable, a red check (\checkmark) will be displayed before its name.

If you want to change the connection parameters of a specific profile, just select it and click 'Edit' button, you'll be prompted to input the connection parameters, just like you're creating a new profile.

If you no longer need a profile, select the profile then click 'Delete'.

2-4-2 Using 802.1x – Certification

After	you click	'802.1x	Setting'.	a new w	vindow	will a	appear:
		•••		•			

302.1×Setting			X
Certification CA Se	•rver		
Authentication Typ	De PEAP S	ession Resumption	Disabled 💌
Identity	Password	Domain 1	Name
Use Client certi	ficate		
Issued To :	Expire	ed On :	More
Issued By :	Frien	dly Name :	
File Path :	authentication credential —	Remove	Import
└ ─ Tunneled Auther	tication		
Protocol		Identity	
		Password	
-			
		OK Ca	ncel Apply

Here are descriptions of every setup items:

Authentication Type	Please select an 802.1x authentication type here. The type you select here must be identical to the type of the 802.1x authentication type you're using.
Session Resumption	You can enable or disable session resumption here. If you don't know if you should enable session resumption or not, please ask your 802.1x authentication administrator.
Identity	Please input 802.1x identity here.
Password	Please input the password of 802.1x identity here.

Domain Name	Please input the domain name of 802.1x authentication here. This field will be grayed out when authentication type is not 'EAP-FAST'.
Use Client	If the authentication type you use is 'PEAP' or 'TTLS', you can use the certificate stored on your computer. If the authentication type you use is 'TLS/Smart Card', this box is always checked.
More	After you clicked this button, you'll be prompted to select a certificate on your computer.
Allow unauthenticated provision mode	This box is always checked and can not be modified.
Use protected authentication credential	If the authentication type you use is 'EAP-FAST' you can use protected authentication credential by check this box.
Remove	Remove the credential you imported previously.
Import	Import the authentication credential file (PAC or al file format), you'll be prompted to select a credential file from your computer.
Protocol	You can select the protocol of tunneled authentication here. This pulldown menu is only available when authentication type you use is 'PEAP' or 'TTLS'. When you use 'EAP-FAST' as authentication type, the protocol setting is always 'Generic Token Card' and can not be changed.
Identity	Please input the identity of tunneled authentication

(of tunneled authentication)	here.
Password	Please input the password of tunneled authentication
(of tunneled authentication)	here.
Password Mode	Please select the password mode of 'EAP-FAST' authentication mode. This setting is hidden when the authentication type is not 'EAP-FAST'.

After you finish all settings, click 'OK' to save settings and exit.

2-4-3 Using 802.1x - CA Server

If you want to use CA server, please click 'CA Server' tab. And the following message will be displayed:

Here are description	ons of every setup items:
Use certificate chain.	Check this box to enable the use of certificate
Certificate Issuer	Please select the issuer of certificate from this dropdown menu.
Allow intermediate certificates	Check this box if you wish to allow intermediate certificates.
Server name	Input the server name of CA server here.
Server name must match exactly	Check this box and the wireless configuration utility will check if the server name of CA server you set here is exactly matched with the CA server connected to. If they don't match, connection will be dropped.
Domain name	Check this box and the wireless configuration utility
must end	will check the end of domain name. If there's
in specified name	anything wrong, connection will be dropped.

After you finish all settings, click 'OK' to save settings and exit.

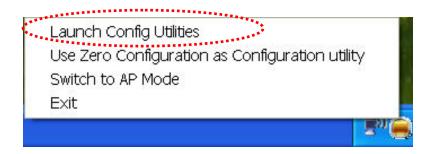
2-5 View Network Statistics and Link Status

The configuration utility provides information about network statistics and link status. If you want to know how your wireless network card works, you can use these functions to get detailed information about the wireless connection you're using.

2-5-1 Network Statistics

Please follow the following instructions to check network statistics:

1. Right-click the Edimax configuration utility icon located at lower-right corner of computer desktop, then click 'Launch Config Utilities'.



2. Click 'Statistics' tab, and the statistics of wireless connection will be displayed:

Fransmit Statistics			
Frames Transmitted Successfully	=	4032	
Frames Fail To Receive ACK After All Retries	=	11	
RTS Frames Successfully Receive CTS	=	0	
RTS Frames Fail To Receive CTS	=	0	
Frames Retransmitted Successfully	-	2099	
Receive Statistics			
Frames Received Successfully	=	16773	
Frames Received With CRC Error	=	362075	
Frames Dropped Due To Out-of-Resource	=	0	
Duplicate Frames Received	=	0	
		Reset Counter	

All connection-related statistics is displayed here. You can click 'Reset Counter' to reset the statistics of all items back to 0.

Click 'OK' to close the window.

2-5-2 Link Status

Please follow the following instructions to check network statistics:

1. Right-click the Edimax configuration utility icon located at lower-right corner of computer desktop, then click 'Launch Config Utilities'.

and the second
Launch Config Utilities
Use Zero Configuration as Configuration utility
Switch to AP Mode
Exit

2. Click 'Link Status' tab, and information about current wireless connection will be displayed:

🥃 Edimax Wireless U	tility					X
Profile Link Status Site	Survey Statis	tics Advar	nced QoS	WPS Configuration	n About	
Status :	6FGUEST <-	-> 00-0E-2E	-6E-FB-87			
Extra Info :	Link is Up [T:	×Power:100	%]			
Channel :	2 <-> 2417 M	Hz				
Link Speed :	Tx (Mbps)		1.0	Px (Mbps)		54.0
Throughput:	Tx (Kbps)	Γ	0.2	Px (Kbps)		8.1
Link Quality :	Good	100%				
Signal Strength 1:	Good Good	81%			☐ dBm	
Signal Strength2 :	Low	26%				
Noise Level :						
HT BW: n/a G	il: n/a MC	CS: n/a	SNR0: n/a	SNR1:n/a		
						ОК

These information displayed here are updated every second, and here are descriptions of every item:

Status	Displays the SSID and BSSID of connected wireless access point or wireless device (displayed as SSID <-> BSSID as shown in above picture. If there's no active connection currently, 'Disconnected' will be displayed here.
Extra Info	Displays the link status ('Link is up' or Link is down', and the radio transmitting power of your network card.
Channel	Displays the radio channel being used now.
Link Speed	Displays the link speed of data transmitting (Tx, in Mbps) and receiving (Rx, in Mbps). Link speed is the maximum available data transfer speed of the wireless connection, and depends on the radio signal quality of wireless connection.
Throughput	Displays the rate of data transmitting (Tx, in Kbps) and receiving (Rx, in Kbps).
Link Quality	Displays link quality (radio signal quality). When the link quality is better, the wireless link speed will be better, too. Link quality is displayed by percentage and a descriptive word (Good, normal, weak, and low).
Signal Strength 1	Displays the radio signal strength of built-in antenna 1.
Signal Strength 2	Displays the radio signal strength of built-in antenna 2.

Noise Level	Displays the percentage or level of noise (unusable) signal. If the value of this item is high, data transfer rate will drop.
dBm	Check this box and the value of signal strength and noise level will be displayed in dBm level instead of percentage.

There are several wireless statuses available at the bottom of this window.

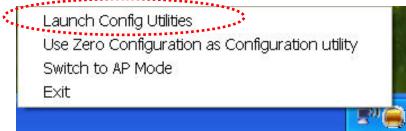
For their explanations, please see chapter 4-3 'Glossary'.

2-6 Advanced Settings

This wireless network card provides several advanced settings for experienced wireless users. You can change these settings to increase data transfer performance, or change operation mode.

Please follow the following instructions to set advanced wireless settings:

1. Right-click the Edimax configuration utility icon located at lower-right corner of computer desktop, then click 'Launch Config Utilities'.



2. Click 'Advanced' tab, and the following settings will appear:

🖨 Edimax Wireless Utility	×
Profile Link Status Site Survey Statistics Advance	ed QoS WPS Configuration About
Wireless mode 802.11 B/G/N mix Wireless Protection Auto	Select Your Country Region Code
Tx BURST	Show Authentication Status Dialog
 Enable TCP Window Size Fast Roaming at -70 dBm Turn off RF 	Enable CCX (Cisco Compatible eXtensions) Turn on CCKM Enable Radio Measurements Non-Serving Channel Measurements Limit 250 milliseconds (0-2000)
	Apply
	ОК

Here are descriptions of every setup items:

Wireless mode	Select wireless operation mode, available options are 802.11 B/G mix, 802.11 B only, and 802.11 B/G/N mix. You can select 802.11 B/G/N mix to maximize wireless compatibility with wireless access points and other wireless devices. Anyway, you can set this setting to '802.11 B only' when you're going to communicate with old 802.11b wireless devices and you got problem using other two modes.
Wireless Protection	This setting helps your network card to avoid interference with other wireless devices when there are both 802.11b and 802.11g wireless devices in the same place. It's recommended to set this setting to 'Auto', since enabling this setting will slightly reduce the data transfer performance.
TX Rate	Normally, the wireless network card will adjust transfer rate automatically according to wireless signal quality. However, you can fix the data transfer rate to a lower fixed rate if you think there's some problem about data transfer, or you're too far from wireless access point. It's recommended to set this setting to 'Auto', unless you really know the meaning of this setting.
Tx BURST	Check this box to accelerate the data transmit rate. It may not work with all wireless access point and wireless devices.
Enable TCP Window Size	Check this box and the configuration utility will adjust TCP window size automatically, to get better performance. It should be safe for most of wireless environments, but if you found some problem on data transfer, uncheck this box.

Fast Roaming at	Check this box and you can adjust the threshold of when this wireless network card should switch to another wireless access point with better signal quality. Only adjust value when you understand what it means.
Turn off RF	Click this button to switch wireless radio off, click itagain switch wireless radio on.
Select Your	Select the country / region code of the place you're
Country Region Code	living. Different country / region has different regulations on wireless devices, and it's forbidden to use certain channel (radio frequency) in some countries or regions. The operating frequency channel will be
	restricted to the country / region user located before importing.
Show Authentication Status Dialog	When your computer is being authenticated by wireless authentication server, a dialog window with the process of authentication will appear. This function is helpful to find out the problem when you can not be authenticated, and you can provide this information to authentication server's administrator for debugging purpose.
Enable CCX	Enable Cisco Compatible eXtensions. CCX is a wireless feature developed by Cisco used to improve the wireless performance with CCX compatible wireless devices. Check this box if you need to connect to CCX-compatible wireless devices.

Turn on CCKM	Check this box to enable CCKM (Cisco Centralized Key Management), which enables wireless clients to roam between CCKM-enabled access points in very short time.
Enable Radio Measurement	When you're connecting to CCX-compatible access point, check this box to enable radio measurement function to improve wireless connectivity.
Non-Serving Channel	When you're connecting to CCX-compatible access point, check this box to enable measurement
Measurements	on unused radio channels to improve wireless connectivity.
Limit milliseconds	Limit the time used for said measurement to a certain time. Default value is 250.

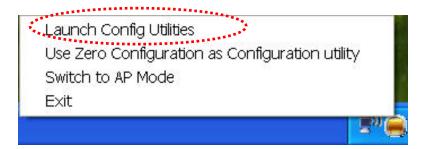
After you finish the settings, click 'Apply' to apply new settings, and click 'OK' to close configuration utility.

2-7 QoS Setting

This wireless network card provides QoS (Quality of Service) function, which can improve the performance of certain network applications, like audio / video streaming, network telephony (VoIP), and others. When you enable WMM (Wi-Fi MultiMedia) function of this network card, you can define the priority of different kinds of data, to give higher priority to applications which require instant responding. Therefore you can improve the performance of such network applications.

Please follow the following instructions to set advanced wireless settings:

Right-click the Edimax configuration utility icon located at lower-right corner of computer desktop, then click 'Launch Config Utilities'.



Click 'QoS' tab, and the following settings will appear:

🖨 Edimax Wireless Utility	X
Profile Link Status Site Survey Statistics Advanced QoS WPS Config	uration About
🔽 WMM Enable	Apply
WMM - Power Save Enable	Setting
Direct Link Setup Enable	Apply
Direct Link — Direct Link Setup MAC Address :	
TimeoutValue: 60 sec	Apply
DLS Status MAC Address Timeout	
	TearDown
	ОК

Here are descriptions of every setup items:

WMM Enable	Check this box to enable WMM function. Please click 'Apply' button on the right of this check box after you check or uncheck this box, so corresponding settings in this window will be activated or deactivated respectively.
W/M/ Dowor	Enable W/MM nower saving mode to save

WMM - Power	Enable WMM power saving mode to save
	energy
Save Enable	and lets your battery live longer.

Setting	Click this button to select the WMM data type which will suppress the function of power saving. When this kind of data is transferring, power saving function will be disabled. Available data types are AC_BK (Background / Low Priority), AC_BE (Best Effort), AC_VI (Video First), and AC_VO (Voice First).
Direct Link	Enable or disable direct link setup (DLS) function.
Setup Enable	This function will greatly improve the data transfer rate between WMM-enabled wireless devices. Please click 'Apply' button on the right of this check box after you check or uncheck this box, so corresponding settings in this window will be activated or deactivated respectively.
MAC Address	Input the MAC address of another WMM-enabled wireless device you wish to establish a direct link here, then click 'Apply' to add this MAC address to DLS address table.
Timeout Value direct	Input the timeout value of this WMM-enabled link wireless device. If the wireless device is not responding after this time, it will be removed from DLS table.
Tear Down	If you want to remove a specific wireless device from DLS table, select the device and click this button to remove it.

After you finish the settings, click 'OK' to close configuration utility.

2-8 WPS Configuration

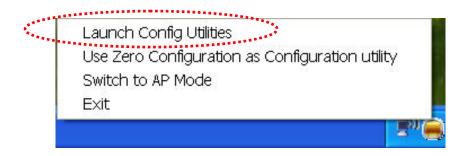
Wi-Fi Protected Setup (WPS) is the latest wireless network technology which makes wireless network setup become very simple. If you have WPS-enabled wireless access point, and you want to establish a secure connection to it, you don't have to configure the wireless access point and setup data encryption. All you have to do is go to the WPS setup page of this wireless card, click a button, and then press a specific button on the wireless access point you wish to establish a secure connection - just three simple steps!

For older wireless access points, it's possible to perform a firmware upgrade to become a WPS-enabled access point. Since they may not have a hardware button to press for WPS setup, you can use an alternative WPS setup method – input the pin code. Every WPS-compatible wireless network card comes with a unique WPS pin code; you can just input the code to wireless access point, and the wireless access point and wireless network card will do the rest for you.

This wireless network card is compatible with WPS. To use this function, the wireless access point you wish to connect to must support WPS function too. Now, please follow the following instructions to establish secure connection between WPS-enabled wireless access point and your wireless network card:

2-8-1 WPS Setup - PBC (Push-Button Configuration)

1. Right-click the Edimax configuration utility icon located at lower-right corner of computer desktop, then click 'Launch Config Utilities'.



2. Click 'WPS Configuration' tab, and the following settings will appear:

SSID	BSSID		C	ID	Authenti	Encrypti	Rescan
FS-6504n	00-0E-2	E-43-48-EE	1		Unknown	None	Information
							Pin Code 31509732
							Config Mode
							Enrollee
SSID		MAC Addre	SS		Authentication	Encryption	Detail
							Connect
							Rotate
							Disconnect
							Export Profile
							Delete
	PS Associa PS Probe IE		tatus i:	s not use	rd		

- 3. Set 'Config Mode' to 'Enrollee', and then push the 'WPS' button on your wireless access point (the button used to activate WPS standby mode may have another name), or use other way to start WPS standby mode as the instruction given by your wireless access point's user manual.
- 4. Before you start to establish the wireless connection by using WPS, you can click 'Rescan' button to search for WPS-enabled access points near you, to make sure the WPS function of your access point is activated.

SSID	BSSID		C	ID	[Authenti	Encrypti	 Rescan
TS-6504n	00-0E-28	E-43-48-EE	1			Unknown	None	Information
								Pin Code
								31509732
								- Config Mode
								Enrollee
SSID		MAC Addre	SS		Auth	entication	Encryption	T Detail
								Connect
								Rotate
								Disconnect
								Export Profile
								Delete
	PS Associat PS Probe IE	e IE WPS st	atus i	s not us	sed			

All access points with WPS function enabled will be displayed. Please make sure the access point you wish to connect is displayed. If not, please click 'Rescan' few more times. You can also click 'Information' button to see the detailed information about selected access point. 5. Start PBC pairing procedure at access point side (please refer to the instruction given by your access point's manufacturer), then click 'PBC' button in wireless configuration utility to start to establish wireless connection by WPS. Please be patient (This may require several seconds to one minute to complete). When you see 'WPS status is connected successfully' message, means the connection between your wireless network card and access point is successfully connected by WPS, and the information about access point you connected to will be displayed.

Edimax Wire Profile Link Statu	100	100	Adv	anced	Qo	s WPS C	Configuration Ab	out
SSID	BSSID		C	ID		Authenti	Encrypti	Rescan
TS-6504n	00-0E-28	E-43-48-EE	1	0x000	0	Unknown	None	Information
								Pin Code
								-
								Config Mode
SSID		MAC Addre				hentication	Encryption	L Detail
<mark>√</mark> TS-6504n		00-0E-2E-43	-48-E	E	OP	EN	NONE	Connect
								Rotate
								Disconnect
								Export Profile
								Delete
	VPS Associat VPS Probe IE		atus i:	s conne	cted	successfull	y-TS-6504n	
								ОК

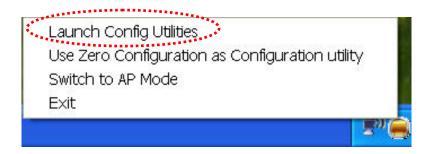
Sometime WPS may fail, and you can click 'PBC' button few more times to try again. When an access point is connected, you can click 'Disconnect' to disconnect your wireless network card from a connected access point, or select another WPS-enabled wireless access point, then click 'Connect' to establish connection to selected access point, if there are more than one WPS-enabled access point found. You can also click 'Rotate' button, and next access point on the list will be selected to establish connection.

If you want to delete a found access point from the list, select it and click 'Delete' button.

2-8-2 WPS Setup - PIN

If the wireless access point you wish to connect supports PIN, please follow the following instructions to establish connection to it:

1. Right-click the Edimax configuration utility icon located at lower-right corner of computer desktop, then click 'Launch Config Utilities'.



2. Click 'WPS Configuration' tab, and the following settings will appear:

0	Edimax Wireless Utility								
P	rofile Link Status	Site Surve	ey Statistics	Adv	/anced	Qo	s WPS C	onfiguration A	sout
	SSID	BSSID		C	ID		Authenti	Encrypti	Rescan
	TS-6504n	00-0E-2E	E-43-48-EE	1	0x000	10	Unknown	None	Information
									Pin Code
									52084850
									Config Mode
									Enrollee
	SSID SSID		MAC Addres 00-0E-2E-43		E	Aut OP	hentication EN	Encryption NONE	Detail
									Connect
									Rotate
									Disconnect
									Export Profile
									Delete
	PIN 🔽 WPS	Associate							
		Probe IE		etuc i	e conne		cuccoccfull	y-TS-6504n	
			1000	ulusi	5 CONING		succession	y 10.000411	
									OK

The PIN number of your wireless network card is an eight-digit number located at the upper-right position of configuration utility. Remember it, and input the number to your wireless access point as the WPS PIN code (Please refer to the user manual of your wireless access point for instructions about how to do this).

NOTE: The PIN code of every wireless network card is DIFFERENT. Please don't use the sample code shown here.

3. Click 'PIN' button now, and wait for few seconds to one minute. If a wireless access point with correct PIN code is found, you'll be connected to that access point:

SSID	BSSID		C	ID		Authenti	Encrypti	Rescan
TS-6504n	00-0E-2	E-43-48-EE	1	0x000	00	Unknown	None	Information
								Pin Code
								52084850
								Config Mode
								Enrollee
SSID		MAC Addre			Auth	entication	Encryption	C Detail
<mark>√</mark> TS-6504n		00-0E-2E-43	8-48-E	E	OPE	EN	NONE	Connect
								Rotate
								Disconnect
								Export Profile
								Delete
	/PS Associat							
PBC IV W	/PS Probe IE	WPS st	atus i	s conne	ected	successfull	y-TS-6504n	

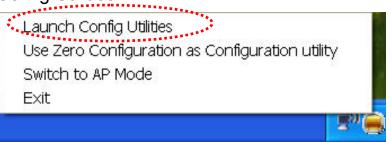
You may have to click 'PIN' for few more times to try again. If you still can not connect to access point by this way, please make sure the PIN code you provided to access point is correct.

2-9 About

The 'About' tab provides you the information about version numbers of configuration utility, firmware, and other important information about your wireless network card.

Please follow the following instructions to see these information:

1. Right-click the Edimax configuration utility icon located at lower-right corner of computer desktop, then click 'Launch Config Utilities'.



2. Click 'About' tab, and the following settings will appear:

EDİMAX		www.edimax.con	n
(c) Copyright 2007, Edim	ax Technology	Co., Ltd. All rights reserved.	
Utility Version :	1.3.2.11	Date :	10-10-2007
Driver Version :	1.0.4.0	Date :	07-28-2007
EEPROM Version :	1.1	Firmware Version :	0.4
IP Address :	0.0.0.0	Phy_Address :	00-0E-2E-ED-20-9B
Sub Mask :	0.0.0.0	Default Gateway :	

If you need assistance about network problem, you'll need these values. You can also click 'www.edimax.com' button to go to the web site of network card driver manufacturer and get more information about your wireless network card.

Please click 'OK' to close configuration utility.

CHAPTER III: Soft-AP Function

Excepting become a wireless client of other wireless access points, this wireless card can act as a wireless service provider also! You can switch this wireless card's operating mode to 'AP' mode to simulate the function of a real wireless access point by software, and all other computers and wireless devices can connect to your computer wirelessly, even share the internet connection you have!

Please follow the instructions in following chapters to use the AP function of your wireless card.

3-1 Switch to AP Mode and Basic Configuration

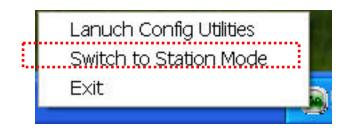
The operating mode of the wireless card is 'Station Mode' (becoming a client of other wireless access points) by default. If you want to switch to AP mode, please right-click Edimax utility icon, and select 'Switch to AP Mode'.

	Launch Config Utilities
	Use Zero Configuration as Configuration utility
	Switch to AP Mode
	Exit
2	

After you select 'Switch to AP Mode', the Edimax utility icon will change:



Which indicated the wireless card is operating in AP mode now. If you want to switch the wireless card back to station mode (become a client of other wireless access points), click 'Switch to Station Mode'.



A configuration window will appear after you switch the operation mode to 'AP' or click 'Launch Config Utilities' after you right-click the Edimax configuration utility, which asks you to assign an existing network card with internet connection:

🔹 Internet Connection Sharing with SoftAP 🛛 🛛 🔀							
Please select a	a network card which had Int	ternet access(WAN)					
Name	Local Area Connection 4	•					
Description	Realtek RTL8139/810x Fami	ly Fast Ethernet NI					
MAC Address	00-50-FC-FE-02-DE						
IP							
Enable ICS]	Not enable ICS					

If your computer has another network card which is connected to Internet, please select it from 'Name' dropdown menu, and click 'Enable ICS'; if your computer does not have another network card with Internet connection, please click 'Not enable ICS'.

After you click 'Enable ICS' or 'Not enable ICS', you'll see the basic configuration menu of the AP function:

Edimax Wireless Utility	
Config Access Control Mac Table Event Log Statist	tics About
SSID SoftAP-9B Wireless Mode 802.11 B/G/N mix	Channel 1
Country Region Code 11 B/G 0: CH1-11	No forwarding among wireless clients Hide SSID Allow BW 40 MHz
Beacon (ms) 100 TX Power 100 % Idle time(60 - 3600)(s) 300	
	Default Apply

Here are descriptions of every setup items:

SSID	Please input the SSID (the name used to
identify	
	this wireless access point) here. Up to 32
	numerical characters can be accepted here,
	excepting space.
TX Rate	Please select the data transfer rate here. The maximum TX rate you can select here depends on the wireless mode you're using. It's safe to select 'Auto' to let wireless card select a proper TX rate according to the strength and quality of radio signal. When the wireless mode is set to '802.11 B/G/N Mix', TX Rate will be set to 'Auto' and cannot be changed.
Channel	Please select the wireless channel you wish to

	use. The number of channels available here will vary depends on the setting of 'Country Region Code'.
Wireless Mode	Please select the wireless operating mode. You can limit the type of wireless client to 802.11b or 802.11g only, or allow 802.11b/g, and 802.11b/g/n clients. It's safe to select '802.11 B/G/N mix' to allow all kinds of wireless client to connect to your computer, unless you want to limit the type of wireless client allowed to connect to your computer.
Use Mac Address	Click this button to use the MAC address of the wireless card as SSID. A prefix of 'AP' will be added.
Security	Set the security options (wireless data encryption)
Setting	Please refer to chapter 3-2 'Security Settings' for details.
Country Region Code	Available options are 0-7, which will affect the available wireless channels you can use:
	0: FCC (US, Canada, and other countries uses FCC radio communication standards) 1: ETSI (Europe) 2: SPAIN 3: FRANCE 4: MKK 5: MKKI (TELEC) 6: ISERAL (Channel 3 to 9) 7: ISERAL (Channel 5 to 13)
	The operating frequency channel will be restricted to the country / region user located

restricted to the country / region user located before importing.

Wireless	Wireless protection will prevent data collision when
Protection	there are both 802.11b and 802.11g clients. You can select 'Auto' to let configuration utility to decide to use wireless protection or not. You can also select 'ON' or 'OFF' to force the use of wireless protection or not.
Beacon(ms)	You can define the time interval that a beacon signal should be send. Default value is 100. Do not modify this value unless you know what will be affected.
Idle Time	Select the idle time of your wireless network card. Default value is 300. Do not modify this value unless you know what will be affected.
No forwarding	Check this box and wireless clients will not be able
among wireless clients	to share data with each other.
Hide SSID	Check this box and the SSID will not be broadcasted to the public. Your wireless clients must know the exact SSID to be able to connect to your computer. This option is useful to enhance security level.
Allow BW 40 MHz	Check this box to allow BW 40MHz capability.
Default	Click this button to restore all settings in this page back to default value.
Apply	Click this button to activate current settings.
To exit, click 'X' bu	tton at the upper-right corner of configuration

window.

3-2 Security Settings

This wireless card supports wireless encryption in AP mode, which will encrypt the data being transferred over the air to enhance data security level. It's recommended to enable data encryption unless you wish to open your computer (and its internet connection) to the public.

When you click 'Security Setting' in Edimax configuration utility, the following window will appear:

Authentication Type WPA Pre-shared-Ke	_		-	Encryption	Гуре	Not Use	<u> </u>
Group Rekey Interv	·	60 10 s	econds				
-Wep Key			12				1
€ Key#1	Hex	Ŧ					
C Key#2	Hex	Ŧ					
C Key#3	Hex	-					
C Key#4	Hex	~					
* WEP 64 Bits * WEP 128 Bit							
10004 100000						1972 9 1991 HO	
					Г	Show Pas	sword

Here are descriptions of every setup items:

Authentication	Please select a wireless authentication type you
Туре	wish to use. Available options are 'Open',
'Shared',	
	'WPA-PSK', 'WPA2-PSK', and 'WPA-PSK /
	WPA2-PSK'. If you want to disable wireless
	data encryption, you must select 'Open' or
	'Shared'.

Encryption available	Please select an encryption mode. The
Туре	options in this setting item will vary depending on the authentication type you select. If you select 'Not Use', data will not be encrypted and people with some networking knowledge will be able to read the data you transfer with proper tool.
	NOTE: WPA encryption is safer than WEP, however, some older wireless clients don't support WPA encryption.
WPA Pre-shared	Please input the WPA pre-shared key here. Only
Key	clients with the same pre-shared key you inputted
	here will be able to connect to your computer. This setting is only available when you select one of WPA encryptions.
Group Rekey	You can specify the time interval to re-issue the key
Interval	to your wireless clients here. You can click the button '10 seconds' or 'Kpackets' to change the unit of time interval. (every 10 seconds or a thousand data packets times the value you specified in 'Group Rekey Interval' field)
Wep Key	Please input the WEP encryption key here when you
#1 ~ #4	select 'WEP' as encryption type. There are 2 types of WEP key: Hex (number 0 to 9, and ASCII characters A to F) and ASCII (all alphanumerical characters plus symbols). Please select the type of WEP key first, and then input the WEP key according to the type of WEP key you selected.

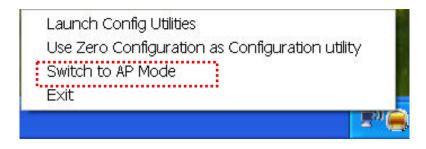
	If you want to use WEP 64 bits encryption, please input 10 characters if you select HEX, or input 5 characters if you select ASCII; If you want to use WEP 128bits encryption, please input 26 characters if you select HEX, or input 13 characters if you select ASCII. 128 bits encryption is safer then 64 bits, but the data transfer speed will be slightly reduced.
Show Password	Check this box and the WPA pre-shared key orWEP key you inputted will be shown, but not replaced by asterisk (*).
ОК	Click this button to save changes you made in this page.
Cancel	Click this button to discard all changes you made in this window.

3-3 Access Control

If you're not going to open your computer and wireless resources to the public, you can use MAC address filtering function to enforce your access control policy, so only wireless clients with MAC address you defined by this function can be connected to your software access point.

Please follow the following instructions to set access control based on MAC address:

1. Right-Click Edimax configuration utility icon, and select 'Switch to AP Mode'



2. Click 'Access Control' tab, and the following messages will appear:

🖲 Edimax Wireless	Utility		×
Config Access Contro	Mac Table Event Log S	Statistics About	
Access Policy		Allow All	
MAC Address	aabbccddeeff	Access List	
		aa-bb-cc-dd-ee-ff	
	Add		
	Delete		
	Remove All		
			Apply
			OK

Here are descriptions of every setup items:

Access Policy Select the policy type of your access rule:

Disable: Allow any wireless client with proper authentication settings to connect to this access point.

Allow All: Only allow wireless clients with MAC address listed here to connect to this access point.

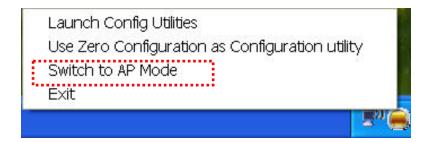
Reject All: Reject wireless clients with MAC address listed here to be connected to this access point.

MAC address you	Input the MAC address of the wireless client		
)	you wish to allow or reject here. No colon (:) or hyphen (-) required.		
Add	Add the MAC address you inputted in 'MAC address' field to the list.		
Delete click	Please select a MAC address from the list, then		
CIICK	'Delete' button to remove it.		
Remove All	Delete all MAC addresses in the list.		
Apply	Save and apply changes you made.		

3-4 Connection table

If you want to see the list of all wireless clients connected to this access point, please follow the following instructions:

1. Right-Click Edimax configuration utility icon, and select 'Switch to AP Mode'



2. Click 'Mac Table' tab, and a list containing all connected wireless clients will appear:

MAC Address	AID	Pow	Status	
00-0E-2E-DF-13-20	1	否	N: MCS = 7, BW = 40, GI = 800, Rate = 135.00	
<				>

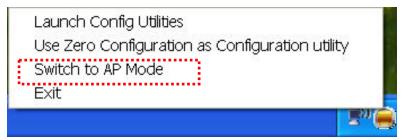
Here are descriptions of every fields:

MAC Address client.	Displays the MAC address of this wireless
AID	The serial number of this wireless connection.
Power Saving of	Displays the capability of power-saving function
Mode	this wireless client.
Status	Displays additional information of this wireless Connection, like current wireless operating
mode	
	and data transfer rate.

3-5 Event Log

This software access point will log all wireless-related activities as a log. You can follow the following instructions to view the content of the event log:

1. Right-Click Edimax configuration utility icon, and select 'Switch to AP Mode'



2. Click 'Event Log' tab, and the event log will be displayed:

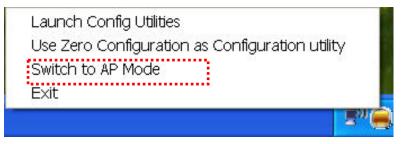
onfig Access Control Mac Table Ev	ent Log Statistics About	
Event Time (yy/mm/dd-hh:mm:ss)	Message	
2007/12/07-13:08:43	Restart Access Point	
2007/12/07-13:08:45	Restart Access Point	
2007/12/07-13:08:46	Restart Access Point	
		11
		Clear
		ОК

You can click 'Clear' to remove all entries in the log.

3-6 Statistics

If you want to know detailed information about how your software access point works, you can follow the following instructions to view the statistics of the access point:

1. Right-Click Edimax configuration utility icon, and select 'Switch to AP Mode'



2. Click 'Statistics' tab, and the event log will be displayed:

🙈 Edimax Wireless Utility			×
Config Access Control Mac Table Event Log Statistics About	ut		
☐ Transmit Statistics			-
Frames Transmitted Successfully	=	3143	
Frames Fail To Receive ACK After All Retries	=	0	
RTS Frames Successfully Receive CTS	=	0	
RTS Frames Fail To Receive CTS	=	0	
Frames Transmitted Successfully After Retry	=	1104	
Receive Statistics			
Frames Received Successfully	=	3167	
Frames Received With CRC Error	=	286298	
Frames Dropped Due To Out-of-Resource	=	782	
Duplicate Frames Received	=	0	
		RESET COUNTERS	
		OK	

You can click 'Reset Counter' button to reset all counters to zero.

CHAPTER IV: APPENDIX

4-2 Troubleshooting

If you encounter any problem when you're using this wireless network card, don't panic! Before you call your dealer of purchase for help, please check this troubleshooting table, the solution of your problem could be very simple, and you can solve the problem by yourself!

Scenario	Solution
I can't find any wireless access point / wireless device in 'Site Survey' function.	 Click 'Rescan' for few more times and see if you can find any wireless access point or wireless device. Please move closer to any known wireless access point. 'Ad hoc' function must be enabled for the wireless device you wish to establish a direct wireless link. Please adjust the position of network card (you may have to move your computer if you're using a notebook computer) and click 'Rescan' button for few more times. If you can find the wireless access point or wireless device you want to connect by doing this, try to move closer to the place where the wireless access point or wireless device is located.
Nothing happens when I click 'Launch config utilities'	 Please make sure the wireless network card is inserted into your computer's USB port. If the Edimax configuration utility's icon is black, the network card is not detected by your computer.

	 Reboot the computer and try again. Remove the card and insert it into
	another USB port.
	4. Remove the driver and re-install.
	5. Contact the dealer of purchase for
	help.
I can not establish	1. Click 'Connect' for few more times.
connection with a	2. If the SSID of access point you wish
certain wireless access	to connect is hidden (nothing
point	displayed in 'SSID' field in 'Site
	Survey' function), you have to input correct SSID of the access point you
	wish to connect. Please contact the
	owner of access point to ask for
	correct SSID.
	3. You have to input correct passphrase
	/ security key to connect an access
	point with encryption. Please contact
	the owner of access point to ask for
	correct passphrase / security key.
	4. The access point you wish to connect only allows network cards with
	specific MAC address to establish
	connection. Please go to 'About' tab
	and write the value of 'Phy_Addess'
	down, then present this value to the
	owner of access point so he / she
	can add the MAC address of your
	network card to his / her access
	point's list.
The network is slow /	1. Move closer to the place where
having problem when transferring large files	access point is located. 2. Enable 'Wireless Protection' in
	'Advanced' tab.
	3. Try a lower TX Rate in 'Advanced'
	tab.
	4. Disable 'Tx Burst' in 'Advanced' tab.
	5. Enable 'WMM' in 'QoS' tab if you

 need to use multimedia / telephony related applications. 6. Disable 'WMM – Power Save Enable' in 'QoS' tab. 7. There could be too much people using the same radio channel. Ask the owner of the access point to change the channel number.
Please try one or more solutions listed above.

4-3 Glossary

1. What is the IEEE 802.11g standard?

802.11g is the new IEEE standard for high-speed wireless LAN communications that provides for up to 54 Mbps data rate in the 2.4 GHz band. 802.11g is quickly becoming the next mainstream wireless LAN technology for the home, office and public networks.

802.11g defines the use of the same OFDM modulation technique specified in IEEE 802.11a for the 5 GHz frequency band and applies it in the same 2.4 GHz frequency band as IEEE 802.11b. The 802.11g standard requires backward compatibility with 802.11b.

The standard specifically calls for:

- A. A new physical layer for the 802.11 Medium Access Control (MAC) in the 2.4 GHz frequency band, known as the extended rate PHY (ERP). The ERP adds OFDM as a mandatory new coding scheme for 6, 12 and 24 Mbps (mandatory speeds), and 18, 36, 48 and 54 Mbps (optional speeds). The ERP includes the modulation schemes found in 802.11b including CCK for 11 and 5.5 Mbps and Barker code modulation for 2 and 1 Mbps.
- B. A protection mechanism called RTS/CTS that governs how 802.11g devices and 802.11b devices interoperate.

2. What is the IEEE 802.11b standard?

The IEEE 802.11b Wireless LAN standard subcommittee, which formulates the standard for the industry. The objective is to enable wireless LAN hardware from different manufactures to communicate.

3. What does IEEE 802.11 feature support?

The product supports the following IEEE 802.11 functions:

- CSMA/CA plus Acknowledge Protocol
- Multi-Channel Roaming
- Automatic Rate Selection
- RTS/CTS Feature
- Fragmentation
- Power Management

4. What is Ad-hoc?

An Ad-hoc integrated wireless LAN is a group of computers, each has a Wireless LAN card, Connected as an independent wireless LAN. Ad hoc wireless LAN is applicable at a departmental scale for a branch or SOHO operation.

5. What is Infrastructure?

An integrated wireless and wireless and wired LAN is called an Infrastructure configuration. Infrastructure is applicable to enterprise scale for wireless access to central database, or wireless application for mobile workers.

6. What is BSS ID?

A specific Ad hoc LAN is called a Basic Service Set (BSS). Computers in a BSS must be configured with the same BSS ID.

7. What is WEP?

WEP is Wired Equivalent Privacy, a data privacy mechanism based on a 40 bit shared key algorithm, as described in the IEEE 802 .11 standard.

8. What is TKIP?

TKIP is a quick-fix method to quickly overcome the inherent weaknesses in WEP security, especially the reuse of encryption keys. TKIP is involved in the IEEE 802.11i WLAN security standard, and the specification might be officially released by early 2003.

9. What is AES?

AES (Advanced Encryption Standard), a chip-based security, has been developed to ensure the highest degree of security and authenticity for digital information, wherever and however communicated or stored, while making more efficient use of hardware and/or software than previous encryption standards. It is also included in IEEE 802.11i standard. Compare with AES, TKIP is a temporary protocol for replacing WEP security until manufacturers implement AES at the hardware level.

10. Can Wireless products support printer sharing?

Wireless products perform the same function as LAN products. Therefore, Wireless products can work with Netware, Windows 2000, or other LAN operating systems to support printer or file sharing.

11. Would the information be intercepted while transmitting on air?

WLAN features two-fold protection in security. On the hardware side, as with Direct Sequence Spread Spectrum technology, it has the inherent security feature of scrambling. On the software side, WLAN series offer the encryption function (WEP) to enhance security and Access Control. Users can set it up depending upon their needs.

12. What is DSSS? What is FHSS? And what are their differences?

Frequency-hopping spread-spectrum (FHSS) uses a narrowband carrier that changes frequency in a pattern that is known to both transmitter and receiver. Properly synchronized, the net effect is to maintain a single logical channel. To an unintended receiver, FHSS appears to be short-duration impulse noise. Direct-sequence spread-spectrum (DSSS) generates a redundant bit pattern for each bit to be transmitted. This bit pattern is called a chip (or chipping code). The longer the chip is, the greater the probability that the original data can be recovered. Even if one or more bits in the chip are damaged during transmission, statistical techniques embedded in the radio can recover the original data without-the need for retransmission. To an unintended receiver, DSSS appears as low power wideband noise and is rejected (ignored) by most narrowband receivers.

13. What is Spread Spectrum?

Spread Spectrum technology is a wideband radio frequency technique developed by the military for use in reliable, secure, mission-critical communication systems. It is designed to trade off bandwidth efficiency for reliability, integrity, and security. In other words, more bandwidth is consumed than in the case of narrowband transmission, but the trade off produces a signal that is, in effect, louder and thus easier to detect, provided that the receiver knows the parameters of the spread-spectrum signal being broadcast. If a receiver is not tuned to the right frequency, a spread –spectrum signal looks like background noise. There are two main alternatives, Direct Sequence Spread Spectrum (DSSS) and Frequency Hopping Spread Spectrum (FHSS).

14. What is WMM?

Wi-Fi Multimedia (WMM), a group of features for wireless networks that improve the user experience for audio, video and voice applications. WMM is based on a subset of the IEEE 802.11e WLAN QoS draft standard. WMM adds prioritized capabilities to Wi-Fi networks and optimizes their performance when multiple concurring applications, each with different latency and throughput requirements, compete for network resources. By using WMM, end-user satisfaction is maintained in a wider variety of environments and traffic conditions. WMM makes it possible for home network users and enterprise network managers to decide which data streams are most important and assign them a higher traffic priority.

15. What is WMM Power Save?

WMM Power Save is a set of features for Wi-Fi networks that increase the efficiency and flexibility of data transmission in order to conserve power. WMM Power Save has been optimized for mobile devices running latency-sensitive applications such as voice, audio, or video, but can benefit any Wi-Fi device. WMM Power Save uses mechanisms included in the IEEE 802.11e standard and is an enhancement of IEEE 802.11 legacy power save. With WMM Power Save, the same amount of data can be transmitted in a shorter time while allowing the Wi-Fi device to remain longer in a low-power "dozing" state.

16. What is GI?

GI stands for Guard Interval. It's a measure to protect wireless devices from cross- interference. If there are two wireless devices using the same or near channel, and they are close enough, radio interference will occur and reduce the radio resource usability.

17. What is STBC?

STBC stands for Space-Time Block Coding, which is a technique used to transfer multiple copies of data by multiple antenna, to improve data transfer performance. By using multiple antennas, not only data transfer rate is improved, but also the wireless stability.

18. What is WPS?

WPS stands for Wi-Fi Protected Setup. It provides a simple way to establish unencrypted or encrypted connections between wireless clients and access point automatically. User can press a software or hardware button to activate WPS function, and WPS-compatible wireless clients and access point will establish connection by themselves. There are two types of WPS: PBC (Push-Button Configuration) and PIN code.

4-4 FCC and CE Compliance Statements

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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 the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC Caution

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE)

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, Spain, Sweden, and the United Kingdom.

The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not intended for use

None.

A declaration of conformity is available on www.edimax.com





