

150Mbps Wireless IEEE802.11b/g/n nano USB Adapter



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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.



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 EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.

The equipment version marketed in US is restricted to usage of the channels 1-11 only.

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

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

Equipment) As of April 8, 2000.

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.

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Chapter I: Product Information

1-1 Introduction and safety information

Thank you for purchasing EDIMAX EW-7811Un high speed IEEE 802.11b/g/n wireless network card! This network card is ultra-nano size design and you are able to plug it into the USB port of your computer without removing it, just like an embedded network card. Excepting common wireless standards 802.11b/g, this wireless network card is also 802.11n compatible - data transfer rate is 150Mbps, and that's three times faster than 802.11g wireless network!

Other features of this router including:

- $\blacksquare IEEE 802.11b/g/n compatible.$
- QoS function (WMM feature) : control the bandwidth required for different applications.
- Supports major encryption methods like WEP, WPA, and WPA2 encryption.
- WPS configuration You don't need an experienced computer technician to help you to get connected. Utilizing the software program of the card, you can get your computer connected by pushing a button or entering an 8-digit code.
- USB 2.0 interface you can get it installed on your computer in just few seconds!
- Software AP support : this network card can also be configured to act as an access point.
- Green Power Saving: support smart transmit power control and auto-idle state adjustment.
- Ultra-Nano size design.

1-2 Safety Information

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

1. This USB 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 yourself, 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

- An empty USB 2.0 port (May not be able work with USB 1.1 port, and performance will be greatly reduced)
- Windows XP, Vista, or Windows 7 operating system
- CD-ROM drive
- At least 100MB of available disk space

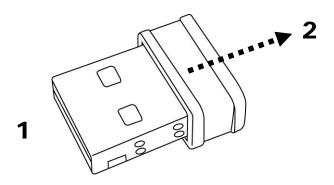
1-4 Package Contents

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:

USB Wireless Network Card (1 pcs)	1
□ Driver/Utility/Quick Guide/User Manual CD-ROM (1 pcs)	2
□ Quick Installation Guide (1 pcs)	3

1-5 Familiar with your new wireless network card

- 1. USB Connector
- 2. Link/Activity LED (Under the case)

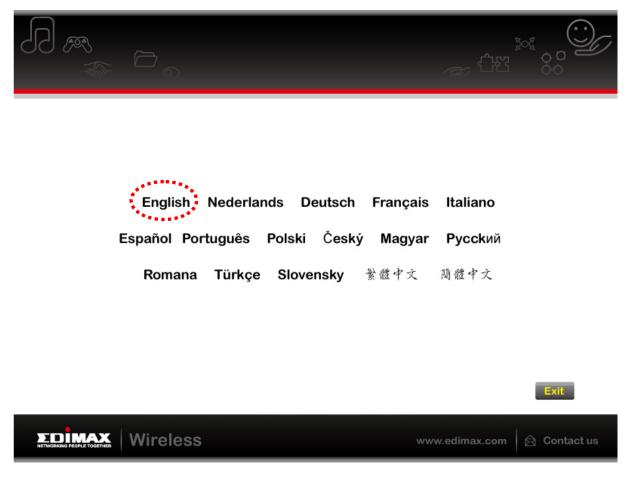


LED Name	Light Status	Description
Link/	Off	No wireless network card is installed.
Activity	On	Solid light 5 seconds means WPS connection
		is established successfully.
	Blinking	Wireless network card is normally installed
		/Linked to a wireless access point /
		Transferring or receiving data.
		Fast Blinking three times per second means
		WPS is activated. The network card will wait
		for 2 minutes to establish WPS connection.

CHAPTER II: Driver Installation and Configuration

We provide an EZMAX setup CD wizard. The will can guide you to finish EW-7811Un installation. This wizard can be run in Windows XP/Vista/7. 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.

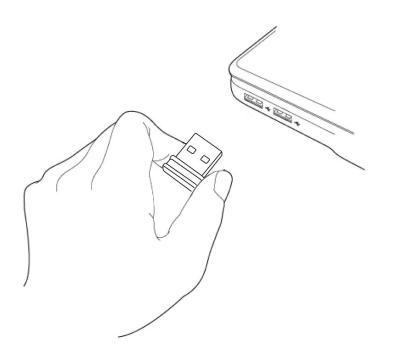


If you lose the CD ROM or you prefer the traditional setup procedure, please follow the instruction as following step

2-1 Network Card Installation

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

1. 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.



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

Under Windows XP

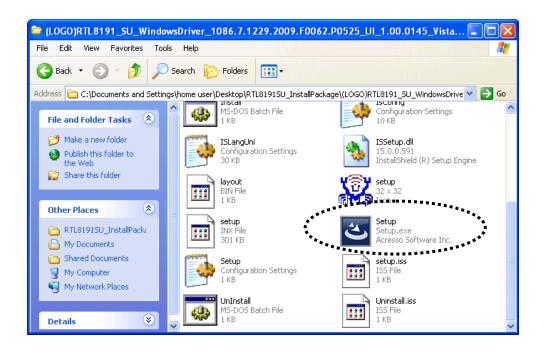
Found New Hardware Wiz	card
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy
	Can Windows connect to Windows Update to search for software? O Yes, this time only O Yes, now and <u>e</u> very time I connect a device O No, not this <u>t</u> ime
	Click Next to continue.

Under Windows Vista and Windows 7

•

U Driver Software Installation		
Installing device driver sof	tware	
802.11 n WLAN	Waiting for user input	
		Close

3. Insert device driver CDROM into the CD/DVD ROM drive of your computer, and execute 'Utility\Setup.exe' program in 'Driver' folder.



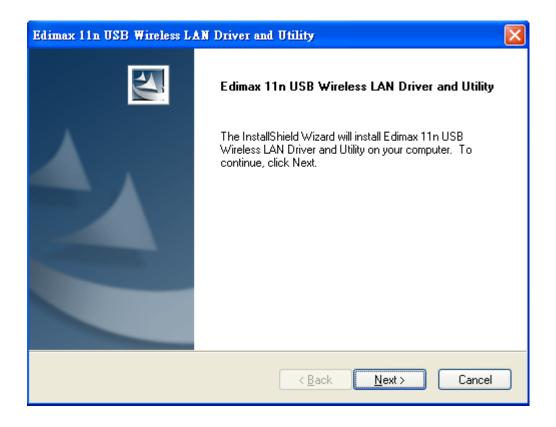
For Windows Vista / Windows 7 OS, you'll be prompted to confirm installation. Click 'Yes' to continue.

💡 User	Account	Control	X
•		i want to allow t es to this compu	the following program to make iter?
	I	Program name: Verified publisher: Program location:	REALTEK Wireless LAN Software REALTEK Semiconductor Corp
		Show information a	about this publisher's certificate
🔊 Hi	de details		Yes No
			Change when these notifications appear

4. Please select the language you wish to use, then click 'Next'.

Choose Setup Language Select the language for the insta	allation from the choices below.	
Basque Bulgarian Catalan Chinese (Simplified) Chinese (Traditional) Croatian Czech Danish Dutch		
English Finnish French (Canadian) French (Standard) German Greek		~
allShield	< <u>B</u> ack <u>N</u> ext > Cano	el:

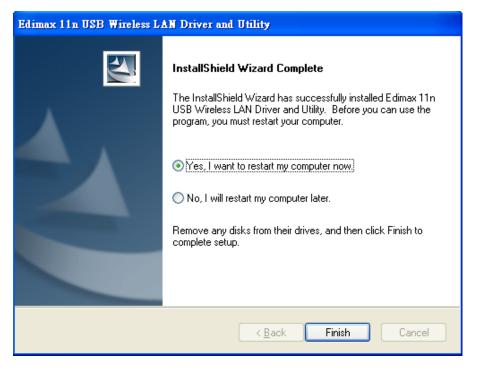
5. Click 'Next' to continue.



6. Click 'Install' to start installation. Installation procedure needs few minutes to complete, please be patient.

Edimax 11n USB Wireless LAN Driver and Utility	×
Edimax 11n USB Wireless LAN Driver and Utility	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
InstallShield	
< <u>B</u> ack Install Cancel	

7. Click 'Finish' to reboot your computer to complete installation procedure. If you don't want to reboot computer now, select 'No, I'll restart my computer later' option and click 'Finish'. Please note you have to reboot your computer before you can use your new USB wireless network card.



8. A new icon will appear near the clock of system tray:



Left-click the icon will launch wireless network configuration utility, and you can right-click the icon to show the quick menu of configuration utility. This icon also uses different color to show the status of wireless connection:



Wireless connection is established, good signal reception.



Wireless connection is established, weak signal reception.



Connection is not established yet.



Wireless network card is not detected.

For detailed instructions of wireless network configuration utility, please see next chapter.

2-2 Connect to Wireless Access Point

To use wireless network, you have to connect to a wireless access point first. You can either use Edimax utility (comes with network card driver), or Windows Zero Config utility (comes with Windows operating system).

2-2-1 Using Edimax Utility

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

1. Left-click the Edimax configuration utility icon located at lower-right corner of computer desktop, and configuration menu will appear:



2. Wireless utility will appear. Click 'Available Network' menu to search for wireless access points nearby.

🖲 Edimax 11n USB Wire	eless LAN Utility	
Refresh(<u>R)</u> Mode(<u>M</u>) Viev	v(V) About(<u>A</u>)	
🖃 🪽 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
📻 Edimax 802.11n	Available Network(s)	
	SSID Channel Encryption Network Authentication Signa	al Type
	👔 🖓 wePresent_820 1 WEP Unknown 469	6 Infrastru
		6 Infrastru
	х ⁹ KEN2 11 AES WPA2 Pre-Shared Key 449	6 Infrastru
		>
	Refresh Add to Profile	
	Note	
	Double click on item to join/create profile.	
<		
✓ Show Tray Icon Radio Off	Disable Adapter	Close
Ready		

3. Please wait for a while, and all wireless access points which can be reached by this wireless network card will be displayed here.

🖲 Edimax 11n USB Wire	less LAN Utility		
Refresh(<u>R)</u> Mode(<u>M</u>) Viev	(Y) About(<u>A</u>)		
🖃 🦉 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup		
📻 Edimax 802.11n	Available Network(s)		
	SSID Channel Encryption Network Authentication	Signal	Туре
	wePresent_820 1 WEP Unknown	46%	Infrastru
	🚺 🎶 6F 🔹 3 AES WPA2 Pre-Shared Key	44%	Infrastru
	🗱 KEN1 3 TKIP WPA Pre-Shared Key	46%	Infrastru
	🛀 😳 Edimax • 6 None Unknown	62%	Infrastru
	¹ MEETING_ROOM 6 None Unknown	44%	Infrastru
	🖓 TestONLY 7 WEP Unknown	72%	Infrastru
	🗱 🕈 6F_EMAX 11 None Unknown	46%	Infrastru
	🗱 AirLink89300 11 TKIP/AES WPA Pre-Shared Key/		Infrastru
	🗱 Jesse 11 WEP Unknown	100%	
	KEN2 AES WPA2 Pre-Shared Key	44%	Infrastru
			>
	Refresh Add to Profile		
	11-1-		
	Note		
	Double click on item to join/create profile.		
<			
✓ Show Tray Icon ■ Radio Off	Disable Adapter		Close
Ready			

If the wireless access point you wish to connect does not appear here, you can click 'Refresh' button to scan for wireless access points again; if the wireless access point you're looking for still not appear, try to move the computer closer.

When the access point you're looking for is on the list, left-click it and then double click it or click 'Add to Profile'.

4. If a password (a.k.a. 'Network Key') is required to access the wireless access point, please input it in 'Network key' (and input it again in 'Confirm network key' for confirmation). Click 'OK' when password is properly inputted.

NOTE: Network security type ('Network Authentication' and 'Data encryption') will be selected automatically based on wireless access point's security setting. It's not required to change these settings by yourself.

Profile Name: Jesse Network Name(SSID): Jesse This is a computer-to-computer(ad hoc) network; wireless access points are not used. GTC Channel: 11 (2462MHz) Wireless network security Username :	×
This is a computer-to-computer(ad hoc) network; wireless access points are not used. Channel: 11 (2462MHz) Username :	
This is a computer-to-computer(ad hoc) network; wireless Channel: 11 (2462MHz) Username :	
This is a computer-to-computer(ad hoc) network; wireless Channel: 11 (2462MHz) Username :	
Channel: 11 (2462MHz) V Username :	
Username :	
Username :	
This network requires a key for the following: Identity :	
Network Authentication: Open System 👻	
Data encryption: WEP Ommain :	
ASCII PASSPHRASE Password :	
Key index (advanced):	
Network key:	
PAC : Auto Select PAC	
Confirm network key:	

All options in this page will be filled automatically according to the access point you wish to add to profile. However, you can still modify any of them to meet your requirement.

Profile name	You can give a name to this profile, so you
	can remember its purpose easily. It can be any
	phrase to help you remember.
Network Name	The SSID (Service Set IDentifier, i.e. access
(SSID)	point's name). This field will be filled as the
	access point you selected when SSID is not
	hidden and grayed out. If SSID is hidden, you

	have to input correct SSID you yourself.
This is a	Check this box if you wish to connect to
computer-to-computer	another computer / network device by ad hoc
(ad hoc) network	method. When not accessing to wireless
	access point, you have to check this box.
Channel	Select wireless channel for ad hoc connection.
	This option only appears when you're using
	ad hoc connection.
Network	Select the network authentication type from
Authentication	drop-down menu. This setting must be
	identical with the setting of wireless access
	point you with to connect.
Data encryption	Select the data encryption type from
	drop-down menu. This setting must be
	identical with the setting of wireless access
	point you with to connect.
ASCII /	When the encryption type is 'WEP', it's
PASSPHRASE	required to input a set of 'passphrase' to
	connect to wireless access point. Check
	'ASCII' or 'PASSPHRASE' depends on the
	security setting of access point, and input it in
	the box; if you select 'PASSPHRASE' you
	also need to select the length of the key.
	The passphrase must be identical with the
	setting of wireless access point you with to
	connect.
Key index	Select WEP key index. For most of access
•	points you can select '1', but please refer to
	the setting of the access point.
Network key /	When the encryption type is 'WPA' or
Confirm network key	'WPA2-PSK', it's required to input a set of
	'passphrase' to connect to wireless access
	point. Please input the same passphrase in two
	boxes for confirmation.
EAP TYPE / Tunnel /	When authentication type is any of 802.1X,
Provision Mode	you have to select EAP type, tunnel, and
	provision mode from dropdown menu. This

	setting must be identical with your 802.1x				
	authentication server.				
Username / Identity /	Please input 802.1x related authentication				
Domain / Password	information here.				
Certificate	If certification is required to authenticate with				
	802.1x authentication server, please select a				
	local certificate from dropdown list.				
PAC	Check this box and PAC (Privilege Access				
	Certificate) will be automatically selected.				

Please click 'OK' when ready.

5. Network card will attempt to connect to access point now, this may require few seconds to minutes, please be patient. When the 'Status' become 'Associated', your computer is connected to access point you selected. Click 'Close' to close configuration menu.

REALTEK 11n USB With Refresh(R) Mode(M) Abou		AN Util	ity				X
MyComputer	General	Profile	Available Network	Status	Statistics	Wi-Fi Protect Setup	
			Status: Asso Speed: Tx: Type: Infin Encryption: TKI SSID: VXT hal Strength: I Link Quality: I	54 Mbps astructu o		98%	
	he	Netwo	IP Subn	Address et Mask	: 0.0.0.0 : 0.0.0.0		
Show Tray Icon			Disa	ible Ada	ReNew IP		Close

NOTE: If you connected to an access point but the connection has been dropped soon, please check security settings and re-check password spelling.

2-2-2 Using 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 click 'Open Config Utility'.



2. Check 'Windows Zero Config' box.

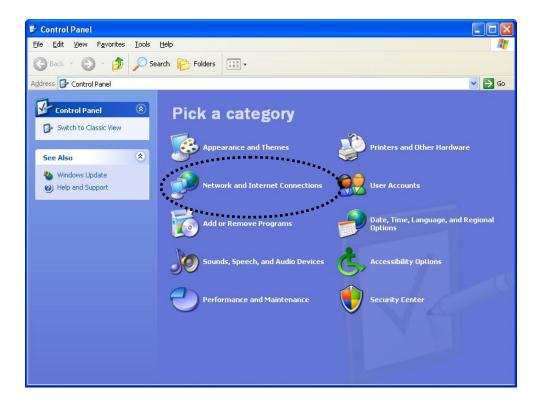
🖲 Edimax 11n USB Wire	less LAN Utility		
Refresh(<u>R)</u> Mode(<u>M</u>) Viev	∕(V) About(<u>A</u>)		
Elimon 000 11	General Profile Availal	ble Network Status Statistics Wi-Fi Protect Setup	
🚗 Edimax 802.11n			
		Associated	
		Tx:21.5 Mbps Rx:21.5 Mbps	
	Type:	Infrastructure	
	Encryption:	None	
	SSID:	Edimax	
	Signal Strength:	56%	
	Link Quality:	94%	
	-Network Addre		
		MAC Address: 00:1F:1F:91:15:C3 IP Address: 10.0.20.152	
		Subnet Mask: 255,255,255,0	
		Gateway: 10.0.20.254	
		Gateway, 10.0.201201	
		ReNew IP	
< >			
🔽 Show Tray Icon		🗌 Disable Adapter	Close
🔲 Radio Off			
Ready			

3. A message indicating that you've been switched to Windows Zero Configuration mode will appear. Click 'OK' to continue.

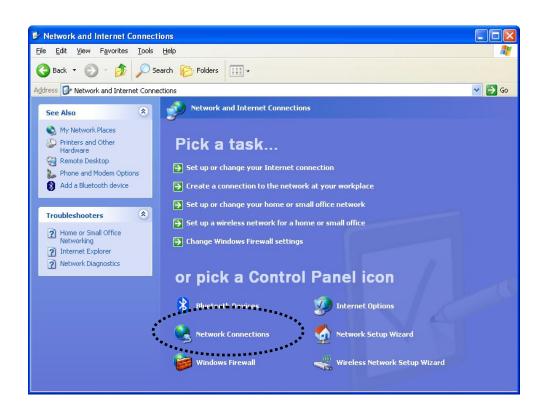


NOTE: To return to use Edimax utility, uncheck 'Windows Zero Config' box.

4. 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.



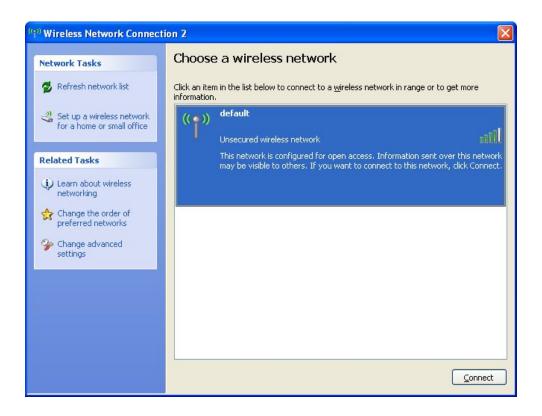
5. Double click 'Network Connections'.



6. 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'.

((1)) Wireless Network Connection 2	LAN or High-Sp Not connect	ed, Firewalled
Local Area Connection Local Area Connection	Disable View Available Wireless Networks Status Repair Bridge Connections	Firewalled Firewalled
-	Create Shortcut Delete Rename Properties	

7. 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'.

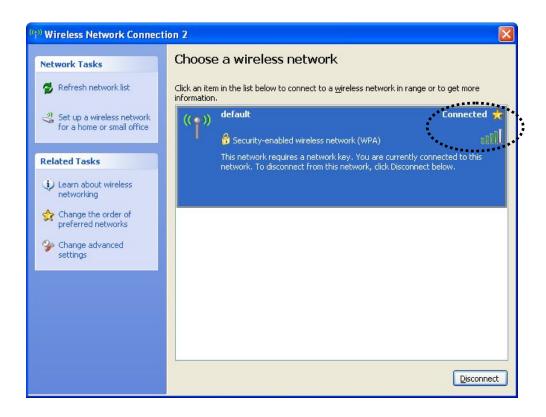


8. If the access point is protected by encryption, you have to input its security key or passphrase here. It must match the encryption setting on the access point.

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

Wireless Network Co	nnection	×
	uires a network key (also called a WEP key or WPA key). A nt unknown intruders from connecting to this network. lick Connect.	
Network <u>k</u>ey: Confirm network key:	1	
	<u>Connect</u> Cancel	

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



2-3 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 to input these parameters every time when you want to connect to a specific wireless access point.

To manage profiles, right-click the Edimax configuration utility icon located at lower-right corner of computer desktop, then click 'Open Config Utility'.



Click the 'Profile' menu.

🖲 Edimax 11n USB	8 Wireless LAN Utility	
$Refresh(\underline{R}) Mode(\underline{M})$	$\forall iew(\underline{V}) About(\underline{A})$	
🖃 🥞 MyComputer 🦾 🚘 Edimax 80	Available Profile(s)	
	Profile Name SSID Add CEdimax Edimax Remove	
	Edit	
	Duplicate	
	Set Default	
		<u> </u>
Show Tray Icon		lose
Ready		

2-3-1 Add a new profile

By this function you can setup the connection parameters for a specific wireless access point in advance, without contacting it first.

If you want to create a new profile, click 'Profile' menu, then click 'Add' button.

🖲 Edimax 11n USB	Wireless	: LAN Ut	ility					
$Refresh(\underline{R}) = Mode(\underline{M})$	View(V)	About(<u>/</u>	Ŋ					
🖃 😼 MyComputer	General	Profile	Available Network	Status	Statistics	Wi-Fi Protect Setup	^	•
- 📻 Edimax 80	Availa	ble Profile	ə(s)					
		file Name				Add		
	C)E	dimax	Edimax					
						Remove		
						Edit		
						Duplicate		
						Set Default		
<	<						<u> </u>	
Show Tray Icon				Disable	Adapter		Close	
Ready								

You'll be prompted to input connection parameters for the wireless access point you wish to connect:

Wireless Network Properties:	X
Profile Name: Edimax	802.1x configure
Network Name(SSID): Edimax	EAP TYPE :
	GTC
	Tunnel : Privision Mode :
This is a computer-to-computer(ad hoc) network; wireless access points are not used.	Y
Channel: 6 (2437MHz) 💽	
	Username :
Wireless network security	
This network requires a key for the following:	Identity :
Network Authentication: Open System 💙	
Data encryption: Disabled	Domain :
	Password :
· · · · · · · · · · · · · · · · · · ·	
Key index (advanced): 1 🗸	Certificate :
Network key:	
	PAC : Auto Select PAC
Confirm network key:	
<u>O</u> K <u>C</u> ancel	

Required parameters are:

Drofilo nomo	You can give a name to this profile so you		
Profile name	You can give a name to this profile, so you		
	can remember its purpose easily. It can be any		
	phrase to help you remember.		
Network Name	The SSID (Service Set IDentifier, i.e. access		
(SSID)	point's name). This must be identical with the		
	SSID of the access point you wish to connect.		
This is a	Check this box if you wish to connect to		
computer-to-computer	another computer / network device by ad hoc		
(ad hoc) network	method. When not accessing to wireless		
	access point, you have to check this box.		
Channel	Select wireless channel for ad hoc connection.		
	This option only appears when you're using		
	ad hoc connection.		
Network	Select the network authentication type from		
Authentication	drop-down menu. This setting must be		
	identical with the setting of wireless access		

	point you with to connect.
Data encryption	Select the data encryption type from
51	drop-down menu. This setting must be
	identical with the setting of wireless access
	point you with to connect.
ASCII /	When the encryption type is 'WEP', it's
PASSPHRASE	required to input a set of 'passphrase' to
	connect to wireless access point. Check
	'ASCII' or 'PASSPHRASE' depends on the
	security setting of access point, and input it in
	the box; if you select 'PASSPHRASE' you
	also need to select the length of the key.
	The passphrase must be identical with the
	setting of wireless access point you with to
	connect.
Key index	Select WEP key index. For most of access
	points you can select '1', but please refer to
	the setting of the access point.
Network key /	When the encryption type is 'WPA' or
Confirm network key	'WPA2-PSK', it's required to input a set of
	'passphrase' to connect to wireless access
	point. Please input the same passphrase in two
	boxes for confirmation.
EAP TYPE /	When authentication type is any of 802.1X,
Tunnel /	you have to select EAP type, tunnel, and
Provision Mode	provision mode from dropdown menu. This
	setting must be identical with your 802.1x
	authentication server.
Username / Identity /	Please input 802.1x related authentication
Domain / Password	information here.
Certificate	If certification is required to authenticate with
	802.1x authentication server, please select a
	local certificate from dropdown list.
PAC	Check this box and PAC (Privilege Access
	Certificate) will be automatically selected.
When all required norm	actors are set alight 'OK' to proste and some a new

When all required parameters are set, click 'OK' to create and save a new profile.

2-3-2 Remove an existing profile

When you no longer need an existing profile, you can remove it.

If you want to remove a profile, click 'Profile' menu, then select an existing profile which you wish to remove, and then click 'Remove' button.

🖲 Edimax 11n USB	Wireles	s LAN UI	ility					X
$Refresh(\underline{R}) Mode(\underline{M})$	View(V) About(4	A)					
🖃 🈼 MyComputer	General	Profile	Available Network	Status	Statistics	Wi-Fi Protect Setup		^
Edimax 80	Availa	able Profile	e(s)					
		file Name				Add		
	C I	Edimax	Edimax					
					÷.,	Remove		
						Edit		
						Duplicate		
						Set Default	:	
								~
	<				1111		>	
✓ Show Tray Icon Radio Off				Disable	Adapter		Close	J
Ready								

2-3-3 Edit an existing profile

If you have added a profile before, and you wish to change the content of the profile, you can use this function. Please select a profile from the list first, then click 'Edit' button. You'll be provided with the contents of selected profile, and you can edit them. Click 'OK' to save changes, or click 'Cancel' to discard changes.

Wireless Network Properties:	
Profile Name: Edimax	802.1x configure
Network Name(SSID): Edimax	EAP TYPE :
	GTC
This is a second that the second they(and have) and used us windows	Tunnel : Privision Mode :
This is a computer-to-computer(ad hoc) network; wireless access points are not used.	
Channel: 6 (2437MHz) 👻	
	Username :
Wireless network security	
This network requires a key for the following:	Identity :
Network Authentication: Open System 💙	
Data encryption: Disabled 💌	Domain :
	Password :
Key index (advanced): 1 🗸	Certificate :
Network key:	
	PAC : Auto Select PAC
Confirm network key:	

2-3-4 Make a copy of existing profile

If you need to make a copy of a specific profile, you can use this function. This function is very convenient when you need to build a new profile which parameters are similar to any existing profile.

🖲 Edimax 11n USB Wireless LAN Utility Refresh(R) Mode(M) View(V) About(A) 🖃 🚽 MyComputer General Profile Available Network Status Statistics Wi-Fi Protect Setup 🙈 Edimax 80 Available Profile(s) Profile Name SSID Add Contemporation (Contemporation) Edimax Remove Edit Duplicate **** Set Default > > 🔽 Show Tray Icon 📃 Disable Adapter Close 📃 Radio Off Ready

To do this, select an existing profile, then click 'Duplicate' button.

You'll be prompted to input a profile name, please use an identical name that does not exist in profile list.

2-3-5 Set as default profile

If you wish to use a specific profile as default connection, you can select a profile in the list, and click 'Set Default'. Selected profile will become default selection and Edimax configuration utility will attempt to connect to selected access point.

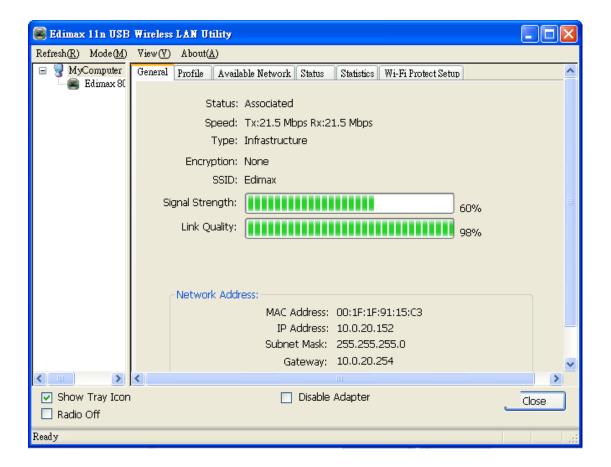
🖲 Edimax 11n USB	Wireless	LAN U	tility							×	
Refresh(<u>R</u>) Mode(<u>M</u>)	View(V)	About(,	<u>A</u>)								
🖃 😼 MyComputer	General	Profile	Available 1	Vetwork	Status	Statistics	Wi-Fi Protect Setup			^	
Edimax 80	Availat	ole Profil	e(s)						_		
		ile Name		SSID		*******	/	۸dd			
*•.	🕐 E	dimax		Edimax					_		
							Re	move			
									_		
							E	Edit		=	
						4		olicato			
								plicate			
										•	••
							Set	Default			
									-		
										-	
									· — `	~	
	<								>		
Show Tray Icon	1				Disable	Adapter		Close			
Radio Off											
Ready										:	

2-4 View Network Statistics, General Information, and 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.

2-4-1 General Information

If you want to know the general information of the access point you're connecting to, click 'General' menu:



All general information like signal strength and link quality will be displayed here. These information are very useful when you encounter some problem on connecting to access point.

If you wish to get a new IP address from DHCP server, you can click 'ReNew IP' button.

2-4-2 Status

If you want to know the status of your wireless network card, click 'Status' menu:

🥃 Edimax 11n USB	Wireless LAN Utility
Refresh(<u>R</u>) Mode(<u>M</u>)	View(V) About(<u>A</u>)
🖃 闍 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
Edimax 80	Manufacturer = Edimax NDIS Driver Version = 1084.19.1012.2009 Short Radio Header = No Encryption = Disabled Authenticate = Open System Channel Set = FCC MAC Address = 00:1F:1F:91:15:C3 Data Rate (AUTO) = Tx:43.5 Mbps Rx:43.5 Mbps Channel (Frequency) = 6 (2437 MHz) Status = Associated SSID = Edimax Network Type = Infrastructure Power Save Mode = None Associated AP MAC = 00:1F:1F:57:3C:24 Up Time (hh:mm:ss) = 0:27:16
✓ Show Tray Icon ■ Radio Off	Disable Adapter Close
Ready	

2-4-3 View Network Statistics

To view the statistical data of wireless network card, click 'Statistics' menu, and the statistics of wireless connection will be displayed:

🥃 Edimax 11n USB	Wireless L.	N Utility	
Refresh(<u>R</u>) Mode(<u>M</u>)	View(V) A	bout(<u>A</u>)	
🖃 🚽 MyComputer	General Pr	ofile Available Network Status Statist	ics 🛛 Wi-Fi Protect Setup 💁
🔤 Edimax 80			
		Counter Name	Value
		Tx OK	388
		Tx Error	0
		Rx OK Rx Packet Count	911
		Rx Retry	120
		Rx ICV Error	0
		Tot ICO Ellos	
<	<	IIII	
Show Tray Icon	1	🔲 Disable Adapte	r Close
Radio Off			Close
Ready			

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

2-5 Miscellaneous Settings

There are few functions provided by Edimax configuration utility, you can access these functions from the bottom of configuration menu:

De	sfresh(R) Mode(M) Abou	(6)
	MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
	Contraction of the	
		Status: Associated
		Speed: Tx:54 Mbps Rx:54 Mbps
		Type: Infrastructure
		Encryption: TKIP
		SSID: VXTRAVEL
		Circuit Channelles
		Signal Strength: 98%
		Link Quality:
		Network Address:
		MAC Address: 00:1F:1F:41:12:5E
		IP Address: 0.0.0.0
		Subnet Mask: 0.0.0.0
		Gateway:
		ReNew IP
<		
	Show Tray Icon	Disable Adapter Close
E	Radio Off	Windows Zero Config

The descriptions of these function are listed as follow:

Show Tray Icon	Check this box to show an icon on system
	tray.
	HERE!
	Uncheck this box to hide it.
Radio Off	Switch wireless radio off. Wireless network
	functionalities are disabled.
Disable Adapter	Disable wireless network adapter. All
	functionalities of configration menu will
	disappear. To resume, unckeck 'Disable
	Adapter'.

Windows Zero Config	Use Windows Zero Configuration to manage
	wireless connections. See section 2-2-2.

2-6 Establish secure connection with AP by WPS

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 by yourself. All you have to do is to go to the WPS setup page of this wireless card, click a button, and then press a specific button or enter a set of 8-digit code 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 support pin code configuration method; 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.

This wireless network card supports 2 kinds of WPS: PIN code and Push-Button.

Please follow the following instructions to setup WPS:

1. Right-click Edimax configuration utility icon, and click 'Open Config Utility'.



2. Click 'Wi-Fi Protect Setup' menu.

🖲 Edimax 11n USB Wire	less LAN Utility	
Refresh(<u>R)</u> Mode(<u>M</u>) View	(V) About(<u>A</u>)	
🖃 🚽 MyComputer Edimax 802.11n	General Profile Availa	able Network Status Statistics Wi-Fi Protect Setup
	Status:	Associated
	Speed:	Tx:21.5 Mbps Rx:21.5 Mbps
	Type:	Infrastructure
	Encryption:	None
	SSID:	Edimax
	Signal Strength:	56%
	Link Quality:	94%
	Network Addr	ess:
		MAC Address: 00:1F:1F:91:15:C3
		IP Address: 10.0.20.152 Subnet Mask: 255.255.255.0
		Gateway: 10.0.20.254
		ReNew IP
<		
✓ Show Tray Icon ■ Radio Off		Disable Adapter Close
Ready		

3. You can use PIN code or Push-Button configuration, and WPS-compatible wireless access point must use the same type of WPS. For instructions on setup each type of WPS, see next 2 chapters for detailed instructions.

😹 Edimax 11n USB	Wireless LAN Utility
Refresh(<u>R</u>) Mode(<u>M</u>)	View(V) About(A)
🖃 😼 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
Edimax 80	Wi-Fi Protected Setup (WPS)
	An easy and secure setup solution for Wi-Fi network
	Pin Input Config (PIN) After pushing the PIN button.Please enter the PIN code into your AP.
	PIN Code: 60442833
	Pin Input Config (PIN)
	Push Button After pushing the PBC button.Please push the physical button on your AF or visual button on the WPS config page.
	Push Button Config (PBC)
 Show Tray Icon Radio Off 	Disable Adapter Close
Ready	

2-6-1 PIN Code

To use PIN Code, please click 'Pin Input Config (PIN)' button:

🖲 Edimax 11n USB	Wireless LAN Utility
Refresh(<u>R</u>) Mode(<u>M</u>)	View(V) About(A)
🖃 🌏 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
📻 Edimax 80	Wi-Fi Protected Setup (WPS)
	An easy and secure setup solution for Wi-Fi network
	- Pin Input Config (PIN)
	After pushing the PIN button.Please enter the PIN code into your AP.
	PIN Code: 60442833
	Pin Input Config (PIN)
	Push Button
	After pushing the PBC button.Please push the physical button on your AF
	or visual button on the WPS config page.
	Push Button Config (PBC)
<	
🛃 Show Tray Icor	Disable Adapter Close
🔲 Radio Off	
Ready	

You'll be prompted to select an access point you wish to connect. If you know its SSID, click 'Yes', otherwise click 'No'.

Wi-Fi Protected Setup (WPS)
Do you want to select a specific AP ?
Yes No

If you select 'Yes', a list of all WPS-compatible AP nearby will be displayed; you can click 'Refresh' to rescan, then select an AP and click 'Select' button.

W	i-Fi Protected Setup - Select AP	×
	WPS AP Name WPS AP MAC WLBARN23-00-0A-79-C 00:0A:79:C5:CC:E8	
(Refresh Cancel	

If you select 'No', wireless network card will prompt you to enter 8-digit PIN code into your AP, without selecting an AP in advance.

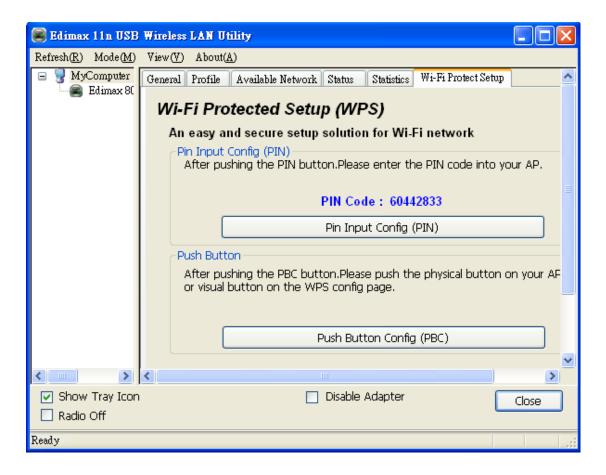
After you select 'Yes' or 'No' in previous step, network card will attempt to connect to WPS-compatible AP, and an 8-digit number will appear. Please input this number to AP's configuration menu within 2 minutes, and network card will establish secure connection with AP automatically.

To stop this procedure before connection is established, click 'Cancel'.

/i-Fi Protected Setup - PIN method	
Wi-Fi Protected Setup - PIN method	
Please enter the following PIN code into your AP .	
PIN Code : 98753420	
Status : Initial WPS	
Cancel	

2-6-2 Push Button

To use Push-Button WPS configuration, please click 'Push Button Config (PBC)' button. This is the easiest way to establish secure connection by WPS, but if there're more than one WPS-compatible AP using Push-Button config, please use PIN Code instead.



After you click Push Button Config, a message box will appear:

Wi-Fi Protected Setup - PBC method	<
Wi-Fi Protected Setup - PBC method If there is more then one AP on the PBC mode, there will be [Session Overlap]. Please using PIN method or wait for a while push the button again. Status : Initial WPS	
Complete :	
Push Button Config (PBC)	

Please activate Push-Button function on wireless access point now, and wireless network card will establish secure connection with access point within one minute.

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 Station Mode

The operating mode of the wireless card is 'Station Mode' (becoming a client of other wireless access points) by default.

Please follow the following instructions to switch to AP mode:

1. Right-click Edimax configuration utility icon, and click 'Open Config Utility'.



2. Select 'Mode', and then select 'Access Point'.

Refresh(R)	Mode(M)	About(A)	
😑 😼 Myo	✓ Station	and a rolle Available rectively Statu	
<u> </u>	Access	Point	
		Wi-Fi Protected Setup (V	
		An easy and secure setup solu	

It requires few seconds to switch to AP mode, please be patient.

🗃 Edimax 11n USB Wireless LAN Utility 📃 🗖 🔀			
Refresh(<u>R</u>) Mode(<u>1</u>	<u>(1)</u> View (V) About(<u>A</u>)	
🖃 😼 MyComput	General	Advanced Statistics ICS	^
Edimax		SSID: TinyHsiaoNB_AP	
		BSSID: 00:1F:1F:91:15:C3 Association Table	
		AID MAC Address Life Time	
			=
		Config	_
			×
<	<		
Show Tray Ic	on	📃 Disable Adapter	Close
🔲 Radio Off			
Ready			

After mode switch is complete, you'll see general information of software AP, which shows AP's SSID and connected wireless clients.

🖲 Edimax 11n US	SB Wireless LAN Utility	
Refresh(<u>R</u>) Mode(<u>A</u>	M) View(V) About(A)	
🖃 😼 MyComput	General Advanced Statistics ICS	^
Edimax	SSID: TinyHsiaoNB_AP	
	BSSID: 00:1F:1F:91:15:C3	
	Association Table	
	AID MAC Address Life Time	
		∃
	Config	
<		>
Show Tray Ic	con 🗌 Disable Adapter	Close
Ready		

Client mode icon :

Software AP icon:



3-1-1 Configure SSID and Channel

To configure software AP, click 'Config' button:

🖲 Edimax 11n US	SB Wireless LAN Utility	
Refresh(<u>R</u>) Mode(<u>A</u>	M) View(V) About(A)	
🖃 🚽 MyComput	General Advanced Statistics ICS	^
Edimax	SSID: TinyHsiaoNB_AP BSSID: 00:1F:1F:91:15:C3 Association Table	
	AID MAC Address Life Time	
	Config	
		~
		>
✓ Show Tray Ic ■ Radio Off	con 🔲 Disable Adapter Clos	e
Ready		

The 'Wireless Network Properties' is displayed.

Wireless Network Properties:		
Profile Name:	Access Point Mode	
Network Name(SSID):	TinyHsiaoNB_AP	
This is a computer-to access points are not	p-computer(ad hoc) network; wireless t used.	
Channel:	1 (2412MHz) 🔽	
Wireless network secu This network requires	rity a key for the following:	
Netw	vork Authentication: Open System 💌	
	Data encryption: Disabled 🛛 🗸	
	SPHRASE	
Key index (advanced) Network key:	I V	
Confirm network key:		
<u>O</u> K	Cancel	

Please note that Ad-Hoc mode is not available when network card is in AP mode. The description of major setup items are listed below:

Network Name	Please input the SSID (the name used to identify
(SSID)	this wireless access point) here. Up to 32
	numerical characters can be accepted here,
	excepting space.
Channel	Please select the wireless channel you wish to
	use, from 1 to 13.

To save changes, click 'OK'; otherwise click 'Cancel' to leave this menu and keep settings untouched.

3-1-2 Setup Soft-AP Security

To setup security options for Soft-AP, configure 'Wireless Network Security' section as follow:

Wireless Network Propert	ies: 🔀	
Profile Name:	Access Point Mode	
Network Name(SSID):	TinyHsiaoNB_AP	
☐ This is a computer-to access points are no	p-computer(ad hoc) network; wireless t used.	
Channel:	1 (2412MHz) 💌	
Wireless network secu		
	a key for the following:	
Network Authentication: Open System 💙		
	Data encryption: Disabled 💽	
ASCII PAS	SPHRASE	
Key index (advanced)): 1 💙	
Network key:		
Confirm network key:		
OK	Cancel	

The description of setup items about wireless security are listed below:

Network	Select network authentication mode from
Authentication	dropdown menu.
Data Encryption	Select data encryption method from dropdown
	menu.
ASCII /	If the encryption method is WEP, check either
PASSPHRASE	'ASCII' or 'PASSPHRASE' box and input it in

	the box as WEP passphrase.
Key Index	Select WEP key index (1-4). If you don't know
	which one you should use, select 1.
Network key /	IF network authentication mode is WPA, please
Confirm network key	input WPA passphrase in both box.

To save changes, click 'OK'; otherwise click 'Cancel' to leave this menu and keep settings untouched.

3-2 Advanced Settings

If you want to setup advanced settings of software access point, select 'Advanced' menu. If you don't know the meaning and affects of these settings, keep them untouched.

🖲 Edimax 11n USB	Wireless LAN Utility	
Refresh(<u>R</u>) Mode(<u>M</u>)	View(V) About(A)	
🖃 🚽 MyComput 🕞 Edimax	eneral Advanced Statistics ICS	
	General	
	Beacon Interval	
	100	
	DTIM Period:	
	3	
	Preamble Mode	
		_
		=
	Set Defaults Apply	
		<u> </u>
		>
Show Tray Icon Radio Off	🔲 Disable Adapter	
Ready		

The description of all setup items are listed below:

Beacon Interval	Please input wireless beacon time interval here.
DTIM Period	Please input DTIM (Delivery Traffic Indication
	Message) here.
Preamble Mode	Select wireless frame preamble mode (long or
	short) from dropdown menu.
Set Defaults	Reset all settings back to factory default value.
Apply	Save changes.

If you changed any setting here and cause problem on communicating with wireless clients, click 'Set Defaults' to reset all settings back to default setting.

3-3 Wireless Statistics

Select 'Statistics' menu and the data statistics about software access point will be displayed.

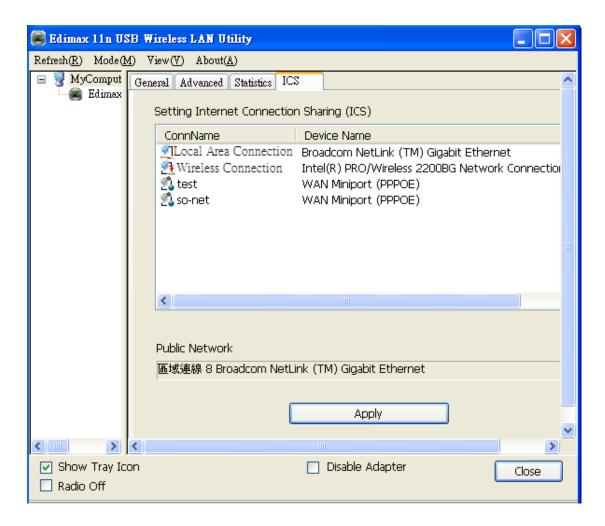
🟾 Edimax 11n USB Wireless LAN Utility							
Refresh(R) Mode(M) View(V) About(A)							
🖃 💡 MyComput	mput General Advanced Statistics ICS						
🔤 Edimax							
		Counter Name		Value			
		Tx OK		6362			
		Tx Error		1067			
		Rx OK Rx Packet Count		1267 1267			
		Rx Retry		164			
		Rx ICV Error		0			
			Reset		v		
<	<		III .		>		
🗹 Show Tray Icon			📃 Disable Adapter	Close			
🔲 Radio Off							
Ready					1		

Click 'Reset' to reset the value of every item back to '0'.

3-4 Internet Connection Sharing (ICS)

In this page, you can assign a network card on your computer as the path for all wireless clients to get connected to Internet.

If you have only one network card (except this software access point), you don't have to select network card here; if you have more than one network card, select the one you wish to be used as Internet gateway.



Click 'Apply' to save changes ('Apply' is grayed out when no changes are made in this page).

CHAPTER IV: Appendix

4-1 Hardware Specification

Standards: IEEE 802.11b/g/n Interface: USB 2.0 (USB 1.1 Compatible) Frequency Band: 2.4000 ~ 2.4835GHz (Industrial Scientific Medical Band) Data Rate: 11b: 1/2/5.5/11Mbps 11g: 6/9/12/24/36/48/54Mbps 11n (20MHz): MCS0-7 (Up to 72Mbps) 11n (40MHz): MCS0-7 (Up to 150Mbps) Securities: WEP 64/128, WPA, WPA2 and IEEE 802.1x Antenna: Internal Antenna (1T1R) Drivers: Windows XP/Vista/Windows 7 LED: Link/Activity Transmit Power: 11b: 17±1.5dBm , 11g: 15±1.5dBm, 11n: 14±1.5dBm Dimension: 7.1(H) x 14.9(W) x 17.4(D) mm Temperature: $32 \sim 104^{\circ}$ F (0 ~ 40° C) Humidity: 10-95% (NonCondensing) Certification: FCC, CE, WiFi

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	1. Click 'Rescan' for few more times and
access point / wireless	see if you can find any wireless access
device in 'Site Survey'	point or wireless device.
function.	2. Please move closer to any known
	wireless access point.
	3. 'Ad hoc' function must be enabled for
	the wireless device you wish to establish
	a direct wireless link.
	4. 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	1. Please make sure the wireless network
click 'Open Config	card is inserted into your computer's
Utility'	USB port.
	2. Reboot the computer and try again.
	3. 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 'Add to Profile' for few more
connection with a certain	times.
wireless access point	2. If the SSID of access point you wish to

[
	 connect is hidden (nothing 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 'Status' menu and write the value of 'MAC Address' 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 access
having problem when transferring large files	point is located.2. 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 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.





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