# Wireless 802.11b/g/n USB Adapter

# **User Manual**

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## **Chapter 1. Introduction**

Thank you for purchasing the wireless 802.11b/g/n USB adapter! This adapter is mini size design and you are able to plug it into the USB port. Excepting common wireless standards 802.11b/g, this wireless adapter is also 802.11n compatible - data transfer rate is 150/300Mbps, and that's three times faster than 802.11g wireless network!

## **1.1 Product Features**

Complies with IEEE 802.11n, IEEE 802.11g and IEEE 802.11b standards Provides USB2.0 port Provides 150/300Mbps receiving rate and 150/300Mbps sending rate Supports 20MHz/40MHz frequency width Auto-detects and changes the network transmission rate Provides two work modes: Infrastructure and Ad-Hoc Supports Soft AP to establish your wireless LAN networking Supports 64/128-bit WEP, WPA, WPA2 encryption methods and 802.1x security authentication standard Supports WPS (Wi-Fi Protected Setup) encryption method to free you from remembering long passwords Easy-to-install, plug and play Supports Windows XP/VISTA/Win7/Win8/Linux/Macintosh

## 1.2 Package contents

The following contents should be found in your box:

One Wireless 802.11b/g/n USB adapter

One CD (include driver/utility/user manual)

**Note**: If any of the listed contents are damaged or missing, please contact the retailer from whom you purchased the product for assistance.

## **1.3 Indicator Description**

There is a LED indicator blinking when data communication is going on.

## **CHAPTER 2: Quick Installation Guide**

This chapter is to assist you how to use the included CD-ROM which comprises the Driver and the Client Utility Interface.

### 2.1 Driver Installation

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

#### 2.1.1

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.

#### 2.1.2

The following message will appear on your computer, click (<u>Cancel / Close</u>'.

**Under Windows XP** 

Hardware Update Wizard				
	Welcome to the Hardware Update 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? Yes, this time only Yes, now and every time I connect a device No, not this time			
in the second	Click Next to continue.			
	K Back Next > Cancel			

**Under Windows Vista and Windows 7** 

Driver Software Installation	A DESCRIPTION OF TAXABLE PARTY.	<b>*</b>
Installing device driver so	ftware	
802.11 n WLAN	Waiting for user input	
		Close

#### 2.1.3

Insert the driver CD into your CD-ROM. You can see autorun screen below. if not, you can double click '<u>autorun.exe</u>' on CD.



Click 'Install Driver' to start the installation procedure

#### 2.1.4

Installation descriptions shown. Click 'Next' to continue



#### 2.1.5

Once the installation is finished the computer will be asked to reboot. you can click '<u>Finish</u>' and reboot the computer to finish the installation of driver files.



#### 2.1.6

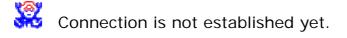
A new icon will appear near the clock of system tray:



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.



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 Client utility (comes with network card driver), or Windows Zero Config utility (comes with Windows operating system).

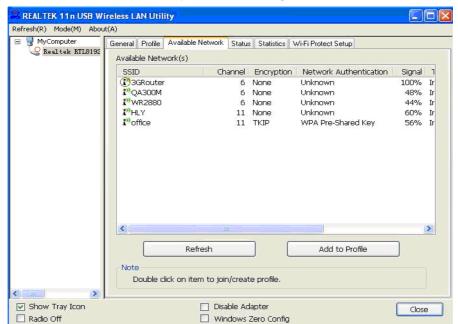
#### 2.2.1 Using Client Utility

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

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



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



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

ntication Signal	
CONTRACTOR OF THE CONTRACTOR	
100%	Ir
48%	Ir
44%	Ir
60%	Ir
Key 56%	Ir
7	>
île	>
ile	>
	44% 60%

If the wireless access point you wish to connect does not appear here, you can click '**<u>Refresh</u>**' 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 '<u>Add to Profile</u>'.

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

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

2
0
2
N
1

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 (SSID)	The SSID (Service Set IDentifier, i.e. access 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
(ad hoc) network	hoc 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
Authentication	from drop-down menu. This setting must

access point you with to connect.Data encryptionSelect 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 / PASSPHRASEWhen the encryption type is 'WEP', it's 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.Key indexSelect WEP key index. For most of access points you can select '1', but please refer to the setting of the access point.Network key / Confirm network keyWhen the encryption type is 'WPA' or '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 / Provision ModeWhen authentication type is any of 802.1X, 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 / Domain / PasswordPlease input 802.1x related authentication information here.PACCheck this box and PAC (Privilege Access		be identical with the setting of wireless
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with 802.1x authentication server, please select a local certificate from dropdown list.		
select a local certificate from dropdown list.		
PAC Check this box and PAC (Privilege Access		•
	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 '<u>Status</u>' become '<u>Associated</u>', your computer is connected to

access point you selected. Click '<u>Close</u>' to close configuration menu.

REALTEK 11n USB Wi	reless LAN Utility
Refresh(R) Mode(M) Abou	t(A)
🖃 💡 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
😪 Realtek RTL8192	
	Status: Associated
	Speed: Tx:270 Mbps Rx:270 Mbps
	Type: Infrastructure
	Encryption: None
	SSID: 3GRouter
	Signal Strength: 100%
	Link Quality:
	Network Address:
	MAC Address: 00:E0:4C:00:00:13 IP Address: 0.0.0.0
	Subnet Mask: 0.0.0.0
	Gateway:
	ReNew IP
✓ Show Tray Icon ☐ Radio Off	<ul> <li>Disable Adapter</li> <li>Windows Zero Config</li> </ul>

**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:

 Right-click Client configuration utility icon, and click '<u>Open</u> <u>Config Utility</u>'.



2. Check '<u>Windows Zero Config</u>' box.

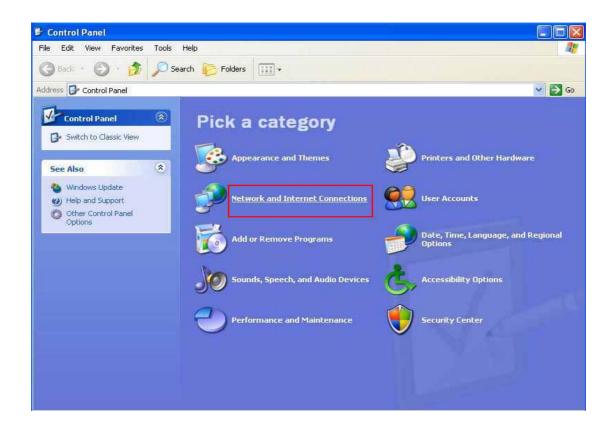
Computer	General Profile	Available Network	Status	s Statistics	Wi-Fi Protect Setup		
Realtek RTL819	Available Netv	work(s)					
	SSID	Ch	annel	Encryption	Network Authentication	Signal	
	(R)3GRoute	ſ	6	None	Unknown	100%	
	CA300M		6	None	Unknown	48%	I
	1 <sup>39</sup> WR2880		6	None	Unknown	44%	I
	<b>I</b> <sup>™</sup> HLY		11	None	Unknown	60%	Ι
	<b>I</b> <sup>™</sup> office		11	TKIP	WPA Pre-Shared Key	56%	I
	E						>
		Ш	11				>
		Refresh		] [	Add to Profile		>

**3.** A message indicating that you've been switched to Windows Zero.

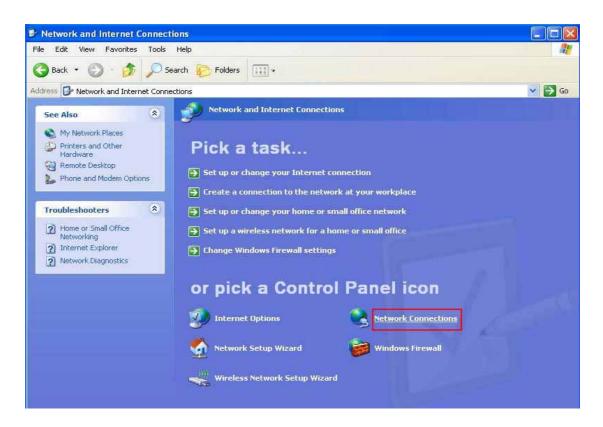
Window	rs Zero Config	
(į)	You are in Windows Zero Conf	ig mode !!
	ОК	

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

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



5. Double click '<u>Network Connections</u>'.



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 Wireless LAN 802.11n USB Network Adapter), then select '<u>View Available Wireless</u> <u>Networks</u>'.

Local Area Connection 2	Dicable
-====	View Available Wireless Networks
Local Area Connection	Repair
	Bridge Connections
	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 '<u>Connect</u>'.

ion	
Choose a wireless network	
Click an item in the list below to connect to a wireless networ information.	rk in range or to get more
((@)) HLY	القدر
((o)) office	UUUS
Security-enabled wireless network (WPA) To connect to this network, click Connect. You information.	រដើម្បីរំរំ
((p)) 3GRouter	lite.
	Connect
	Click an item in the list below to connect to a wireless network information.

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 Cor	nection 🛛 🔀
key helps prevent unknow	s a network key (also called a WEP key or WPA key). A network i intruders from connecting to this network.
Type the key, and then cl	k Connect,
Network key:	
Confirm network key:	
	Connect Cancel

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

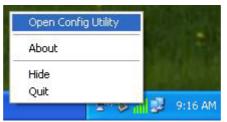
Network Tasks	Choose	e a wireless network	
💋 Refresh network list	Click an iter information	n in the list below to connect to a wireless network in r ,	ange or to get more
Set up a wireless network for a home or small office	((p))	office	Connected 🗙
Related Tasks		You are currently connected to this network. To disc click Disconnect.	onnect from this network,
Change the order of preferred networks	(( <b>ဝူ</b> ))	3GRouter	
🎱 Change advanced	U	Unsecured wireless network	
and the second se	((0))	HLY	
settings			
settings	U	Unsecured wireless network	
secongs	((Q))	Unsecured wireless network WR2880	
settings	(( <b>ရ</b> ာ))	1211120000000	160

# **CHAPTER 3: Client Utility**

## 3.1 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 Client configuration utility icon located at lower-right corner of computer desktop, then click '**Open Config Utility**'.



Click the 'Profile' menu.

REALTEK 11n USB W efresh(R) Mode(M) Abo	
🖃 😼 MyComputer 🧟 Realtek RTL8192	General Profile Available Network Status Statistics WirFi Protect Setup Available Profile (s)
	Profile Name SSID Add
	Remove
	Edit
	Duplicate
	Set Default
>	
Show Tray Icon	Disable Adapter Close Windows Zero Config

#### 3.1.1 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

uter General Profile Av	ailable Network Status Statistics Wi-F	Fi Protect Setup
ek RTL8192 Available Profile(s		
Profile Name	SSID	Add
(C) 3GRouter	3GRouter	
1.1.2.8*		Remove
		Edit
		Duplicate
		Set Default
<		
		1

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

Profile Name:	3GRouter	802.1x configure	
Vetwork Name(SSID):	3GRouter	EAP TYPE :	
		GTC	~
		Tunnel : Privi	sion Mode :
This is a computer-ti access points are no	a-computer(ad hoc) network; wireless t used.		18
Channel:	6 (2437MHz)	Username :	
Wireless network secu	irity		
This network requires	a key for the following:	Identity :	
Netv	vork Authentication: Open System 🛛 🚽		
	Data encryption: Disabled 🛛 🗸	Domain :	
ASCII PAS	SPHRASE	Password :	
Key index (advanced	): 1 💌	Certificate :	
Network key:			18
		PAC : Auto Select PAC	
Confirm network key:			1

Required parameters are:

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 (SSID)	The SSID (Service Set IDentifier, i.e. access
	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
(ad hoc) network	hoc 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
Authentication	from 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 / PASSPHRASE	When the encryption type is 'WEP', it's
	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.
	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
5	points you can select '1', but please refer to
	the setting of the access point.
Network key / Confirm	When the encryption type is 'WPA' or
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.

When all required parameters are set, click ' $\underline{OK}$ ' to create and save a new profile.

#### 3.1.2 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.

MyComputer	General	Profile	Available	e Network	Status	Statistics	Wi-Fi Protect Se	tup
😪 Realtek RTL8192	Availab	ole Profi	le(s)					
		le Name		SSID				Add
	<b>(1)</b> 30	GRouter		3GRou	uter			Remove
								Edit
								Duplicate
								Set Default
	<					j)	>	

#### 3.1.3 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 '<u>Edit</u>' button. You'll be provided with the contents of selected profile, and you can edit them. Click '<u>OK</u>' to save changes, or click '<u>Cancel</u>' to discard changes.

Profile Name:	3GRouter	802.1x configure	
letwork Name(SSID):	3GRouter	EAP TYPE :	
		GTC	~
		Tunnel : F	Privision Mode :
This is a computer-to access points are not	p-computer(ad hoc) network; wireless t used.		8
Channel:	6 (2437MHz)	Username :	
Wireless network secu	rity		
This network requires	a key for the following:	Identity :	
Netw	vork Authentication: Open System 🛛 😒		
	Data encryption: Disabled	Domain :	
	SPHRASE	Password :	
Key index (advanced)	R 1 🔜	Certificate :	
Network key:			8
		PAC : Auto Select PA	ć.
Confirm network key:			15

#### 3.1.4 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.

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

resh(R) Mode(M) Abou	4)			
MyComputer Realtek RTL8192	General Profile Available Ne Available Profile(s)	twork 🛛 Status 🛛 Statistics	Wi-Fi Protect Setup	
	Profile Name	SSID 3GRouter		Add
				Remove
				Edit
			[	Duplicate
			S	ət Default
	<	s	2	
Show Tray Icon		] Disable Adapter		

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

#### 3.1.5 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 '<u>Set Default</u>'. Selected profile will become default selection and Client configuration utility will attempt to connect to selected access point.

REALTEK 11n USB W Refresh(R) Mode(M) Abo	
Refresh(R) Mode(M) Abo	It(A) General Profile Available Network Status Statistics Wi-Fi Protect Setup Available Profile (s) Profile Name SSID Add C 3GRouter 3GRouter Edit Duplicate
C THE S	Set Default
Show Tray Icon	Disable Adapter Close Vindows Zero Config

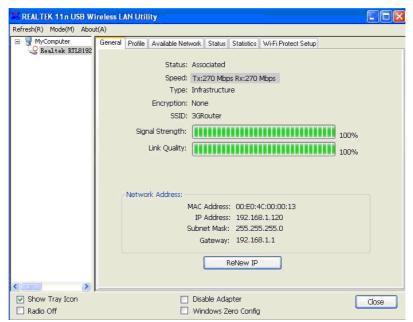
## 3.2 View Network Statistics, General Information,

#### 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.

#### 3.2.1 General Information

If you want to know the general information of the access point you're connecting to, click '<u>General</u>' 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 '**<u>ReNew IP</u>**' button.

#### 3.2.2 Status

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

MyComputer Realtek RTL8192	General Profile Ava	ilable Network Stat	us Statistics	Wi-Fi Protect Setup	
	Manufacturer NDIS Driver Version Short Radio Header Encryption Authenticate Channel Set MAC Address Data Rate (AUTO) Channel (Frequency Status SSID Network Type Power Save Mode Associated AP MAC Up Time (hh:mm:ss	)	No Disal Ope 11 00:E Tx:2 6 (2 Asso 3GR Infra Non	1.5.925.2013 oled n System :0:4C:00:00:13 :70 Mbps Rx:270 Mbps 437 MHz) oclated outer sstructure e (C:43:30:52:E8	

#### 3.2.3 View Network Statistics

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

	Value
	80
	912
	912
	7
Rx ICV Error	0
- Prost	
Reset	
	Counter Name Tx OK Tx Error Rx OK Rx Packet Count Rx Retry Rx ICV Error Rx ICV Error

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

## 3.3 Miscellaneous Settings

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

REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) Abou	ıt(A)	a a se a
🖃 🚽 MyComputer 😪 Realtek RTL8192	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
Weatter MIDIS2		
	Status: Associated	
	Speed: Tx:270 Mbps Rx:270 Mbps	
	Type: Infrastructure	
	Encryption: None	
	SSID: 3GRouter	
	Signal Strength:	
	Link Quality:	
	- / [	
	Network Address:	
	MAC Address: 00:E0:4C:00:00:13	
	IP Address: 192,168,1.120 Subnet Mask; 255,255,255,0	
	Gateway; 192.168.1.1	
	Gateway, 192.100.1.1	
	ReNew IP	
<		
🔽 Show Tray Icon	Disable Adapter	Close
🗌 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.
	💷 <sup>0)</sup> 😵 📶 🐷 9:36 AM
	HĚRE!
	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	Use Windows Zero Configuration to manage
Config	wireless connections. See section 2.2.2.

## 3.4 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:

 Right-click Client configuration utility icon, and click '<u>Open</u> <u>Config Utility</u>'.

Open Config Utility	
About	
Hide	
Quit	

#### 2. Click '<u>Wi-Fi Protect Setup</u>' menu.

eneral Profile Available Network Status Statistics Wi-Fi Protect Setup
stretal Profile Available Network Status Statistics WI-FI Protect Setup
Status: Associated
Speed: Tx:270 Mbps Rx:270 Mbps
Type: Infrastructure
Encryption: None
SSID: 3GRouter
Signal Strength: 100%
Link Quality: 100%
Network Address:
MAC Address: 00:E0:4C:00:00:13 IP Address: 192.168.1.120
Subnet Mask: 255.255.255.0
Gateway: 192.168.1.1
ReNew IP
ReNew IP
3

**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.

	General Profile Available Network Status Statistics Wi-Fi Protect Setup
Sealtek RTL8192	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 : 35229414
	Pin Input Config (PIN)
After p	Push Button
	After pushing the PBC button.Please push the physical button on your AP or visual button on the WPS config page.
	or visual button on the WHS coning page.
I	Push Button Config (PBC)
I	
I	

#### 3.4.1 PIN Code

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

efresh(R) Mode(M) Abo	out(A)
MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
😪 Realtek RTL819	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: 35229414
	Pin Input Config (PIN)
	Push Button
	After pushing the PBC button Please push the physical button on your AP
	or visual button on the WPS config page.
	Push Button Config (PBC)
- 1 S	
Show Tray Icon	Disable Adapter Close

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

Wi-Fi Protected Set	tup (WPS)	
Do you want	to select a spe	cific AP ?
Yes	No	)

If you select '<u>Yes</u>', a list of all WPS-compatible AP nearby will be displayed; you can click '<u>Refresh</u>' to rescan, then select an AP and

#### click 'Select' button.

WPS AP Name	WPS AP MAC
3GRouter HLY	00:0C:43:30:52:E8 00:E0:4C:81:96:C1
	Refresh

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

After you select '<u>Yes</u>' or '<u>No</u>' 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 Prote	cted Setup - PIN method	
ease enter	the following PIN code into your AP .	
	PIN Code : 35229414	
Status : 3	nitial WPS	

#### 3.4.2 Push Button

To use Push-Button WPS configuration, please click '<u>Push</u> <u>Button Config (PBC)</u>' 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.

efresh(R) Mode(M) Abou g 🚽 MyComputer		
Realtek RTL8192	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
	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.	
	Transition Residences	
	PIN Code: 35229414	
	Pin Input Config (PIN)	
	Push Button	
	After pushing the PBC button.Please push the physical button on your AP	
	or visual button on the WPS config page.	
	Push Button Config (PBC)	
		-
Show Tray Icon	Disable Adapter	Clos
Radio Off	🔲 Windows Zero Config	100 m

After you click "**Push Button Config(PBC)**", a message box will appear:

Wi-Fi Protected Setup - PBC method	×
Wi-Fi Protected Setup - PBC method	
If there is more than one AP on the PBC mode, there will be [Session Overlap].Please use PIN method or wait for a while and use PBC method again	l.
Status : AP Sitesurvey	
Complete : 🚺	
Push Button Config (PBC) Cancel	

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 4** Soft-AP Function

Excepting become a wireless client of other wireless access points, this wireless adapter can act as a wireless service provider also! You can switch this wireless adapter'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.

## 4.1 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:

 Right-click Client configuration utility icon, and click '<u>Open</u> <u>Config Utility</u>'.

Open Conf	g Utility	
About		
Hide		
Quit	· · · · ·	

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

Refresh(P	0	Mode(M)	About(A)	5			
🖂 🎯 M	yC	C V Station		ar	eral	Profile	Availab

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

🤽 REALTEK 11n USB V	/ireless LAN Utility	
Refresh(R) Mode(M) Abo	ut(A)	
⊟ J MyComputer Realtek RTL819;	General Advanced Statistics ICS SSID: microsof-35426b_AP	
	BSSID: 00:E0:4C:00:00:13	
	Association Table	
	AID MAC Address Life Time	
< m <sup>**</sup>	Config	
Show Tray Icon	Disable Adapter	Close

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

	JSB Wireless LAN Utility	
Refresh(R) Mode(M		
🖃 😼 MyComputer	IL8192 General Advanced Statistics ICS	
P. 5.4	SSID: microsof-35426b_AP	
	3310- INCOSOF-334200_AP	
	BSSID: 00:E0:4C:00:00:13	
	Association Table	
	AID MAC Address Life Time	
	Config	
Show Tray Io	n 🗌 Disable Adapter	Close
	🛒 🔁 📶 🔛 9:10 AM	
ent mode ic	on :	
tware AP ic	on:	
Configure	SSID and Channel	
configure so	oftware AP, click 'Config' button:	
	Wireless LAN Utility	
Refresh(R) Mode(M)		
🖃 👷 MyComputer	General Advanced Statistics ICS	
😪 Realtek RTLS	92	
	SSID: microsof-35426b AP	

Refresh(R) Mode(M) Abo	JC(A)	
🖃 🚽 MyComputer 🥪 Realtek RTL8192	General Advanced Statistics ICS	
	SSID: microsof-35426b_AP	
	BSSID: 00:E0:4C:00:00:13	
	Association Table	-
	AID MAC Address Life Time	
	Config	
🔽 Show Tray Icon	Disable Adapter	Close

The 'Wireless Network Properties' is displayed.

4.1.1 То

Wireless Network Properties:
Profile Name: Access Point Mode
Network Name(SSID): microsof-35426b_AP
This is a computer-to-computer(ad hoc) network; wireless
access points are not used.
Channel: 1 (2412MHz) 💟
Wireless network security This network requires a key for the following: Network Authentication: Open System
Data encryption: Disabled 🛛 👻
Key index (advanced): 1
Confirm network key:
OK 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 (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.
Channel	Please select the wireless channel you wish to use, from 1 to 13.

To save changes, click '<u>**OK**</u>'; otherwise click '<u>**Cancel**</u>' to leave this menu and keep settings untouched.

#### 4.1.2 Setup Soft AP Security

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

W	ireless Network Properties: 🛛 🛛 🔀
	Profile Name: Access Point Mode
	Network Name(SSID); microsof-35426b_AP
	access points are not used.
	Channel: 1 (2412MHz) 💙
	Wireless network security
	This network requires a key for the following:
	Network Authentication: Open System 👻
	Data encryption: Disabled
	Key index (advanced): 1
	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	input WPA passphrase in both box.
key	

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

## 4.2 Advanced Settings

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

REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) Abou	Jt(A)	
🖃 😼 MyComputer	General Advanced Statistics ICS	
😪 Realtek RTL8192	General	
	Beacon Interval	
	100	
	DTIM Period:	
	3	
	Preamble Mode	
	Long	
	Set Defaults Apply	
Show Tray Icon	Disable Adapter	Close
Radio Off		Close

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 '<u>Set Defaults</u>' to reset all settings back to default setting.

## **4.3 Wireless Statistics**

Select '**<u>Statistics</u>**' menu and the data statistics about software access point will be displayed.

REALTEK 11n USB W	and the second		
Refresh(R) Mode(M) Abou	It(A) General Advanced Statistics ICS		
	Counter Name	Value	
	Tx OK Tx Error	172	
	Rx OK	1960	
	Rx Packet Count Rx Retry	1960 9	
	Rx ICV Error	0	
	Reset		
<			
Show Tray Icon	, 🔲 Disable Adapter		Close

Click '<u>Reset</u>' to reset the value of every item back to '0'.

## 4.4 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.

REALTEK 11n USB W Refresh(R) Mode(M) Abou		
MyComputer	General Advanced Statistics ICS Setting Internet Connection Sharing (ICS)	
	ConnName Device Name	
	옷 Local Area Connection Realtek RTL8139 Family PCI Fast Ethernet NIC #2 안 Local Area Connecti Realtek RTL8139 Family PCI Fast Ethernet NIC	
	Public Network	
	Local Area Connection Realtek RTL8139 Family PCI Fast Ethernet NIC #2	
Show Tray Icon	Disable Adapter	ose

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

# **CHAPTER 5: 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 ' <u>Site</u> <u>Survey</u> ' function.	<ol> <li>Click 'Rescan' for few more times and see if you can find any wireless access point or wireless device.</li> <li>Please move closer to any known wireless access point.</li> </ol>
	<ol> <li>Ad hoc' function must be enabled for the wireless device you wish to establish a direct wireless link.</li> <li>Please adjust the position of network card</li> </ol>
	(you may have to move your computer if you're using a notebook computer) and click ' <b>Rescan</b> ' 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	1. Please make sure the wireless network card is		
when I click	inserted into your computer's USB port.		
' <u>Open Config</u>	<ol> <li>Reboot the computer and try again.</li> </ol>		
<u>Utility</u> '	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 times.		
connection with a	2. If the SSID of access point you wish to		
certain wireless	connect is hidden (nothing displayed in 'SSID'		
access point	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		
	' <u>Status</u> ' 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	1. Move closer to the place where access point is		
slow / having	located.		
problem when	2. There could be too much people using the		
transferring large	same radio channel. Ask the owner of the		
files	access point to change the channel number.		
	Please try one or more solutions listed above.		