# Hamlet

# Wi-Fi 300N Nano USB Adapter





www.hamletcom.com

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Dear Customer,

thanks for choosing an Hamlet product. Please carefully follow the instructions for its use and maintenance and, once this item has run its life span, we kindly ask You to dispose of it in an environmentally friendly way, by putting it in the separate bin for electrical/electronic waste, or to bring it back to your retailer who will collect it for free.



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Imported by: CARECA ITALIA SPA - Scandiano (RE) . Italy. VAT number 02078660350 www.careca.com

The complete CE declaration of conformity of the product can be obtained by contacting Hamlet at info@hamletcom.com.

Visit www.hamletcom.com for complete information on all Hamlet products and to access downloads and technical support.

We inform You this product is manufactured with materials and components in compliance with RoHS Directives 2011/65/EU & 2015/863/EU, with WEEE Directives 2002/96/CE, 2003/108/EC Italian Legislative Decree 2005/151 and RED Directive 2014/53/EU for the following standards: EN 62368-1: 2014 + A11: 2017 EN 62311: 2008

EN 300 328 V2.2.2 (2019) EN 301 489-1 V2.1.1 (2017) EN 301 489-17 V3.1.1 (2017)

#### **CE Mark Warning**

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



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The material in this document is for information only. Contents, specifications and appearance of the product are indicative and may change without notice.

# 1. Introduction

Hamlet Wi-Fi 300N Nano USB Adapter connects a desktop or notebook computer to a Wi-Fi network using 802.11n standard that allows wireless connection speed up to 300 Mbps. Wireless N standard maximizes speed and extend wireless coverage ensuring better performance for video streaming and online gaming.

The ultra compact design makes it convenient and easy to carry. You can always leave it plugged into your computer without worrying about blocking adjacent USB ports.

# **1.1 Product Features**

- Complies with IEEE 802.11n, IEEE 802.11g and IEEE 802.11b wireless standards
- Supports 2.4GHz frequency band
- Wireless data rates: up to 300Mbps
- RTL8192EU chipset
- Wireless range: 10 m
- Internal antenna (2dBi)
- Transmit Power (EIRP): 100mW
- USB 2.0 interface connection (480Mbps)
- 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
- Easy plug and play installation
- Dimensions (L x W x H): 22 × 16.4 × 8.5 mm
- Compatible with: Windows Vista/7/8 and 10, Mac OS X 10.4 or above, Linux (Kernel 2.6.18 ~ 4.17)

# 1.2 Package contents

The Wireless USB Adapter package includes the following.

- Wireless Nano USB Adapter
- Quick Installation Guide
- Driver CD

Latest drivers are available on Hamlet website at www.hamletcom.com

# 2. Wireless USB Adapter Installation

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.

- 1. Insert the nano USB wireless adapter into an empty USB 2.0 port of your computer when computer is switched on.
- 2. If the following message will appear on your computer, click **Cancel/Close**.

Driver Software Installation		×
Installing device driver so	ftware	
802.11 n WLAN	Waiting for user input	
		_
		Close

**Under Windows Vista and Windows 7** 

3. Insert the driver CD into your CD-ROM. The autorun screen below will appear. if not, you can double click **autorun.exe** file on CD.



4. Click **Install Driver** to start the installation procedure.

- 5. Follow the installation wizard and click **Next** to continue.
- 6. Once the installation is finished the computer will be asked to reboot. you can click **Finish** and reboot the computer to finish the installation of driver files.



After the installation the new icon of the wireless utility software will appear on the desktop and near the clock in the system tray.

	9136 AM
REALTEK USB Wireless L	HERE!

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.



Ш

Connection is not established yet.



Wireless network adapter 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 adapter driver), or Windows Zero Config utility (comes with Windows operating system).

#### **Using Client Wireless Utility**

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

1. 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 **Available Network** menu to search for wireless access points nearby.

REALTEK 11n USB V Refresh(R) Mode(M) Abo	
🖃 😼 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
😪 Realtek RTL8192	Available Network(s)
	SSID Channel Encryption Network Authentication Signal 1
	🕐 3GRouter 6 None Unknown 100% Ir
	🚺 🖥 QA300M 6 None Unknown 48% Ir
	👔 🖓 WR2880 6 None Unknown 44% Ir
	<b>1</b> <sup>10</sup> HLY 11 None Unknown 60% Ir
	11 TKIP WPA Pre-Shared Key 56% Ir
	Refresh Add to Profile
	Note Double click on item to join/create profile.
Show Tray Icon Radio Off	Disable Adapter     Close     Windows Zero Config

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

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.

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

REALTEK 11n USB W	ireless LAN Uti	lity					
Refresh(R) Mode(M) Abou	Jt(A)						
🖃 🦉 MyComputer	General Profile	Available Network	Statu:	s Statistics '	Wi-Fi Protect Setup		
😪 Realtek RTL8192	Available Net	work(s)					
	SSID	Cha	nnel	Encryption	Network Authentication	Signal	1
	(C) 3GRoute	r	6	None	Unknown	100%	Ir
	🚺 🎝 🖓 QA300M		6	None	Unknown	48%	Ir
	1 <sup>9</sup> WR2880		6	None	Unknown	44%	Ir
	I I I I I I I I I I I I I I I I I I I		11	None	Unknown	60%	Ir
	1 <sup>90</sup> office		11	TKIP	WPA Pre-Shared Key	56%	Ir
							>
	Note Double of	Refresh :lick on item to join	/creat	e profile.	Add to Profile		)
✓ Show Tray Icon Radio Off				lapter Zero Config		Close	•

4. If a password ("Network Key") is required to access the wireless access point, please input it in **Network key** text field (and input it again in **Confirm network key** for confirmation).

Profile Name:	office	802.1x configure	
Network Name(SSID):	office	EAP TYPE :	
		GTC	~
1289.00 N. N.		Tunnel : Privision f	Mode :
This is a computer-to access points are no	p-computer(ad hoc) network; wireless t used.		
Channel:	11 (2462MHz) 👻	Username :	
Wireless network secu	irity		
This network requires	a key for the following:	Identity :	
Netw	vork Authentication: WPA-PSK		
	Data encryption: TKIP	Domain :	
	SPHRASE	Password :	
Key index (advanced)	1 🗸	Certificate :	
Network key:			
		PAC : Auto Select PAC	
Confirm network key:			1

**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.

5. After the password is properly inserted, click **OK** to confirm.

The network adapter will attempt to connect to access point now, this may require few seconds to minutes. When the "Status" become "Associated", your computer is connected to access point you selected and you can close the client configuration utility.

REALTEK 11n USB Wireless LAN Utility						
Refresh(R) Mode(M) Abou	it(A)					
B VyComputer	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: 100%					
	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					
	Kelvew IP					
Show Tray Icon	Disable Adapter	Close				
Radio Off	Windows Zero Config	0056				

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

#### **Using Windows Zero Configuration**

Windows XP and later operating systems have 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 Client configuration utility icon and click **Open Config Utility**.



2. Check "Windows Zero Config" box at the bottom of the utility interface.

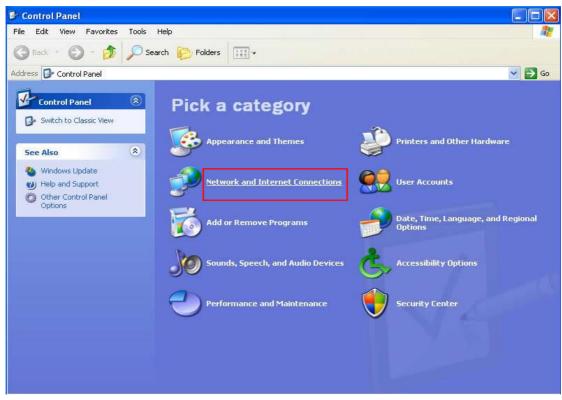
REALTEK 11n USB Wi	reless LAN Utili	ty					
Refresh(R) Mode(M) Abou	t(A)						
🖃 😼 MyComputer	General Profile	Available Network St	atus	Statistics W	/i-Fi Protect Setup		
😪 Realtek RTL819:	Available Netw	ork(s)					
	SSID	Chann	el	Encryption	Network Authentication	Signal	
	C 3GRouter		6 1	None	Unknown	100%	Ir
	L <sup>9)</sup> QA300M		6 1	None	Unknown	48%	Ir
	1 <sup>29</sup> WR2880		6 1	None	Unknown	44%	Ir
	1 <sup>29</sup> HLY			None	Unknown	60%	- 20
	1 <sup>30</sup> office	1	.1	TKIP	WPA Pre-Shared Key	56%	Ir
	<						>
						_	-
		Refresh			Add to Profile		
	Note Double cli	ck on item to join/cr	eate	profile.			
Show Tray Icon		Disable	-	pter ero Config		Clos	

3. A message indicating that you've been switched to Windows Zero will be displayed. Click **OK** to confirm.

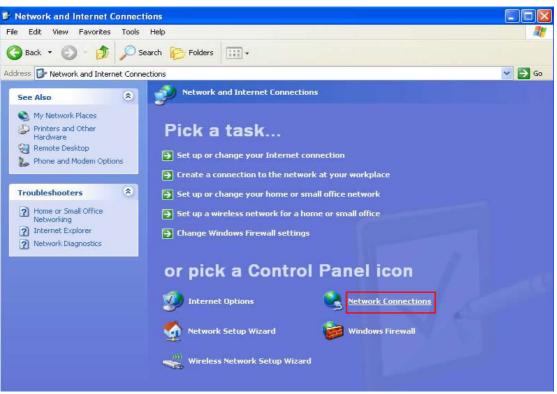


**NOTE**: To return to use Client utility, uncheck "Windows Zero Config" box.

4. Click **Start** button, select **Control Panel**, then click **Network and Internet Connections** in Control Panel window.



5. Double click Network Connections.



6. Right-click on **Wireless Network Connection** icon (it may have a number as suffix if you have more than one wireless network adapter, please make sure you right-click the Wireless LAN 802.11n USB Network Adapter), then select **View Available Wireless Networks**.

Local Area Connection 2	(c) Dicable View Available Wireless Networks
Local Area Connection	Status Repair
	Bridge Connections
	Create Shortcut Delete
	Rename
	Properties

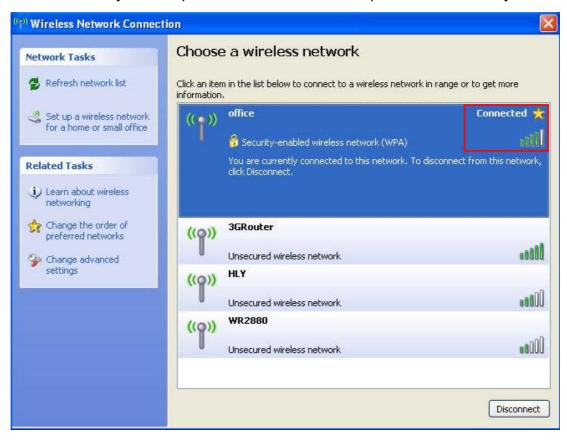
7. All wireless access points in proximity will be displayed here. Select the access point you want to use, then press **Connect** button.

<sup>(1))</sup> Wireless Network Connec	tion		L
Network Tasks	Choose	e a wireless network	
💋 Refresh network list	Click an iter information	m in the list below to connect to a wireless network in rang	je or to get more
Set up a wireless network for a home or small office	((ဝူ))	HLY	
for a nome of small office	U	Unsecured wireless network	0000
Related Tasks	(( <b>c</b> ))	office	
(j) Learn about wireless	ļ	🔓 Security-enabled wireless network (WPA)	littee
Change the order of preferred networks		To connect to this network, click Connect. You might net information.	ed to enter additional
Change advanced settings	((g))	3GRouter	
	U	Unsecured wireless network	
			Connect

8. If the access point is protected by encryption, you have to input its security key or passphrase here. If the access point you selected does not use encryption, you'll not be prompted for security key or passphrase.

Wireless Network Conne	ection 🔀		
The network 'D-Link_DIR-820LW-5G' requires a network key (also called a WEP key or WPA key). A network key helps prevent unknown intruders from connecting to this network.			
Type the key, and then click Connect.			
Network key:	•••••		
Confirm network key:	••••••		
	Connect Cancel		

9. If you can see **Connected** message next to the wireless network you selected, the connection between your computer and wireless access point is successfully established.



# 3. Client Utility

## **3.1 Connection Profile Management**

If you need to connect to different wireless access points at different time, like access point of your home, office or public wireless service, you can store the connection parameters 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.

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



2. Click the **Profile** tab in the main window of the configuration utility.

🚨 REALTEK 11n USB Wi	ireless LAN Utility		
Refresh(R) Mode(M) Abou	t(A)		
MyComputer Realtek RTL8192	General Profile Availab	le Network 🛛 Status 🗍 Statistics 🗏 Wi	Fi Protect Setup
	Profile Name	SSID	Add
	C 3GRouter	3GRouter	
			Remove
			Edit
			Duplicate
			Set Default
	<		
< <u> </u>			
Show Tray Icon Radio Off		<ul> <li>Disable Adapter</li> <li>Windows Zero Config</li> </ul>	Close

The "Available Profile" window displays the existing profiles and the buttons on the right side allow the user to manage and create new profiles for different networks configurations.

#### Add a new profile

This function allows you to setup the connection parameters for a specific wireless access point in advance, without contacting it first.

1. If you want to create a new profile, click **Add** button in the "Profile" window.

REALTEK 11n USB Wi Refresh(R) Mode(M) Abou	stranding and a second state of the second sta		
MyComputer Realtek RTL8192	General Profile Availa Available Profile(s)	able Network Status Statistics Wi-Fi Pro	otect Setup
	Profile Name	SSID 3GRouter	Add
		C	Remove
			Edit
			Duplicate
			Set Default
	¢	.85	
Show Tray Icon		<ul> <li>Disable Adapter</li> <li>Windows Zero Config</li> </ul>	Close

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

Profile Name:	3GRouter	802.1x configure	
etwork Name(SSID):	3GRouter	EAP TYPE :	
		GTC	
		Tunnel : Privision	Mode :
This is a computer-to access points are not	-computer(ad hoc) network; wireless used.	v .	18
-	· · · · · · · · · · · · · · · · · · ·		
Channel:	6 (2437MHz) 👻	Username :	
Wireless network secu	rity		
This network requires	a key for the following:	Identity :	
Netwi	ork Authentication: Open System 🛛 😒		
	Data encryption: Disabled	Domain :	
ASCII PASS	PHRASE	Password :	
Key index (advanced):	1 💌	Certificate :	
Network key:			5
		PAC : Auto Select PAC	
Confirm network key:			

3. Fill in the required parameters, then click **OK** to create and save the new profile.

The following table describes the parameters that can be configured in the "Wireless Network Properties" window.

Due file as an	
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 point's name).
(SSID)	This must be identical with the SSID of the access point you
	wish to connect.
This is a computer-	Check this box if you wish to connect to another computer /
to-computer (ad	network device by ad hoc method. When not accessing to
hoc) network	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 drop-down menu.
Authentication	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 required to input a set
PASSPHRASE	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 "WPA2-PSK", it's
Confirm network key	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, you have to select
Provision Mode	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 information here.
Domain / Password	•
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.

#### Remove an existing profile

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

Select an existing profile which you wish to remove in the "Profile" window, then click **Remove** button.

🕷 REALTEK 11n USB Wi	reless LAN Utility		
Refresh(R) Mode(M) Abou	t(A)		
🖃 🦉 MyComputer 😪 Realtek RTL8192	General Profile Availabl Available Profile(s)	e Network 🛛 Status 🖉 Statistics 🖉 Wi-F	Protect Setup
	Profile Name	SSID 3GRouter	Add
			Edit
			Duplicate
			Set Default
	<u>«</u>		
Show Tray Icon     Radio Off		<ul> <li>Disable Adapter</li> <li>Windows Zero Config</li> </ul>	Close

#### 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 **Cancel** to discard them.

reless Network Prop	erties:		
Profile Name:	3GRouter	802.1x configure	
Network Name(SSID):	3GRouter	EAP TYPE :	
		GTC	<b>~</b>
		Tunnel : Privision Mode :	
This is a computer-to access points are no	a-computer(ad hoc) network; wireless t used.		×
Channel:	6 (2437MHz)	Username :	
Wireless network secu	urity		
This network requires	a key for the following:	Identity :	
Netv	vork Authentication: Open System 🛛 💌		
	Data encryption: Disabled	Domain :	
	SPHRASE	Password :	
Key index (advanced)	): 1 🗸	Certificate :	
Network key:			·
l i		PAC : Auto Select PAC	
Confirm network key:			~
16			

#### 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. Select an existing profile from the list, then click **Duplicate** button.

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

efresh(R) Mode(M) Abo	ut(A)	
WyComputer 🖓 Realtek RTL819:	General Profile Available Network Status Statistics Wi Available Profile(s)	Fi Protect Setup
	Profile Name SSID © 3GRouter 3GRouter	Add
		Remove
		Edit
		Duplicate
		Set Default
	<	
		21
- Chave Trave Lean		
] Show Tray Icon ] Radio Off	<ul> <li>Disable Adapter</li> <li>Windows Zero Config</li> </ul>	Close

#### 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 Client configuration utility will attempt to connect to selected access point.

REALTEK 11n USB Wirel	ess LAN Utility	
Refresh(R) Mode(M) About(A)		
Realtek RTL8192	eneral Profile Available Network Status Statistics Wi-Fi Protect Setup Available Profile (s) Profile Name SSID Add	
	Image: Solution of the soluti	
	Edit	
	Duplicate	
	Set Default	
	<	
Show Tray Icon Radio Off	Disable Adapter     Close     Windows Zero Config	

## **3.2 General Information, Status and Network Statistics**

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

#### **General Information**

If you want to know the general information of the access point you're connecting to, click on **General** menu tab.

REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) Abou	ıt(A)	
🖃 💡 MyComputer 🧟 Realtek RTL8192	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
Cantek VIT0195	Obday Associated	
	Status: Associated	
	Speed: Tx:270 Mbps Rx:270 Mbps	
	Type: Infrastructure	
	Encryption: None	
	SSID: 3GRouter	
	Signal Strength: 100%	
	Lirik Quality:	
	Network Address:	
	MAC Address: 00:E0:4C:00:00:13	
	IP Address: 192.168.1.120	
	Subnet Mask: 255.255.25	
	Gateway: 192.168.1.1	
	ReNew IP	
	L'ENEW IP	
< >		
Show Tray Icon	Disable Adapter	data
Radio Off	Windows Zero Config	Close

The information displayed here are described in the below table. 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.

Status	Check if the device associated to target network.
Speed	The transmission (Tx) and receiving (Rx) speed of the current connection.
Туре	Infrastructure or Ad-Hoc mode.
Encryption	The encryption mode for connecting to current network profile.
SSID	The SSID (network name) of the connected wireless network.
Signal Strength	Indicates the signal strength.
Link Quality	Indicates the link quality.
Network Address	Shows the current IP addresses settings.

#### Status

If you want to know the status of your wireless network adapter, click Status menu tab.

🞗 REALTEK 11n USB Wireless LAN Utility				
Refresh(R) Mode(M) Abou	t(A)			
MyComputer Realtek RTL8192	General Profile Available Network 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)	Status       Statistics       Wi-Fi Protect Setup         REALTEK       1024,5,925,2013       No         Disabled       Open System       11         00:E0:40:00:00:13       Tx:270 Mbps Rx:270 Mbp       6 (2437 MHz)         Associated       3GRouter       Infrastructure         None       00:00:43:30:52:E8       0:26:36	ps	
Show Tray Icon		able Adapter Indows Zero Config	Close	

#### **Network Statistics**

Click **Statistics** menu tab to view the statistical data of wireless adapter. You can click **Reset** button to reset the statistics of all items back to 0.

😹 REALTEK 11n USB W	reless LAN Utility	
Refresh(R) Mode(M) Abou	t(A)	
🖃 💡 MyComputer 🍣 Realtek RTL8192	General Profile Available Network Status Statistics \	Wi-Fi Protect Setup
	Counter Name	Value
	Tx OK	80
	Tx Error Rx OK	912
	Rx Packet Count	912
	Rx Retry Rx ICV Error	7
	KX ICV EITOI	
	Reset	
Show Tray Icon Radio Off	Disable Adapter	Close
	🔲 Windows Zero Config	

## 3.3 Other Settings

There are few functions provided by Client configuration utility you can access from the bottom of utility interface.

REALTEK 11n USB W	ireless LAN Utility				
Refresh(R) Mode(M) Abou	it(A)	ana ang sa			
🖃 繴 MyComputer 🤮 Realtek RTL8192	General 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: 255.255.0				
	Gateway: 192.168.1.1				
	ReNew IP				
< >					
Show Tray Icon	Disable Adapter				
Radio Off	Windows Zero Config	ose			

The descriptions of these function are listed in the following table.

Show Tray Icon	Check this box to show an icon on system tray. 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 configuration menu will disappear. To resume, uncheck "Disable Adapter".
Windows Zero Config	Use Windows Zero Configuration to manage wireless connections.

## 3.4 Establish secure connection using 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 adapter, 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 WPSenabled 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 adapter support pin code configuration method; you can just input the code to wireless access point, and the wireless access point and wireless network adapter will do the rest for you.

This wireless network adapter is compatible with WPS. To use this function, the wireless access point you wish to connect to must support WPS function too.

This wireless network adapter supports two kinds of WPS: **PIN code** and **Push Button Configuration (PBC).** In the following pages are described the instructions to establish secure connection between WPS-enabled wireless access point and your wireless network adapter.

#### **PIN Code**

1. Open the Client configuration utility and click Wi-Fi Protect Setup tab.

REALTEK 11n USB Wi	ireless LAN Utility	
Refresh(R) Mode(M) Abou	r(A)	and the second
E VyComputer	General 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	
Show Tray Icon Radio Off	ReNew IP	Ilose

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

REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) Abou	t(A)	
🖃 繴 MyComputer 😪 Realtek RTL8192	General Profile Available Network Status Statistics Wi-Fi Protect Setup <i>Wi-Fi Protected Setup (WPS)</i> 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 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	<ul><li>Disable Adapter</li><li>Windows Zero Config</li></ul>	Close

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



4. 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.

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

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

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

Vi-Fi Protected Setup - PIN method	
Wi-Fi Protected Setup - PIN method	
Please enter the following PIN code into your AP .	
PIN Code : 35229414	
Status : Initial WPS	
(********	
Cance	

7. If you want to stop this procedure before connection is established, click **Cancel**.

#### **Push Button**

1. To use Push-Button WPS configuration, select the **Wi-Fi Protect Setup** tab of the configuration utility and click **Push Button Config (PBC)** button.

REALTEK 11n USB Wir	reless LAN Utility	
Refresh(R) Mode(M) About(	(A)	
Refresh(R) Mode(M) About(		
Show Tray Icon	Disable Adapter     Windows Zero Config	Close

2. 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.	
Status : AP Sitesurvey	
Complete :	
Push Button Config (PBC) Cancel	3

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

This is the easiest way to establish secure connection through WPS, but if there're more than one WPS-compatible AP using Push Button configuration, please use PIN Code instead.

# 4. Soft AP Function

In Soft AP mode, this wireless adapter can act as a wireless Access Point. 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 and share the internet connection.

Please follow the instructions in following pages to use the AP function of your wireless adapter.

## 4.1 Switch to AP Mode and Station Mode

The default operating mode of the wireless adapter is "Station Mode" (becoming a client of other wireless access points). Follow the instructions below to switch to AP mode.

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

Open Config Utility	a statement
About	
Hide	at) (106)
Quit	

2. Select Mode, and then select Access Point.

Refresh(R)	Mode(M)	About(A)			
😑 😼 My	C V Station		reral	Profile	Availab

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

REALTEK 11n USB Wi	reless LAN Utility	
Refresh(R) Mode(M) About		
E S MyComputer	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
Radio Off		

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

t(A)	
General Advanced Statistics ICS	
SSID: microsof-35426b_AP	
BSSID: 00:E0:4C:00:00:13	
Association Table	
AID MAC Address Life Time	
Config	
Disable Adapter	Close
	General Advanced Statistics ICS SSID: microsof-35426b_AP BSSID: 00:E0:4C:00:00:13 Association Table AID MAC Address Life Time Config

Client mode icon:



# 9:10 AM

### Configure SSID and Channel

1. To configure software AP, click **Config** button.

REALTEK 11n USB W		
Refresh(R) Mode(M) Abou	It(A) 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 ■ Radio Off	Disable Adapter	Close

2. The Wireless Network Properties is displayed.

ireless Network Prope	erties:	
Profile Name:	Access Point Mode	2
Network Name(SSID):	microsof-35426b_AP	
access points are not		less
Channel: Wireless network secu	1 (2412MHz) 💌	
	a key for the following:	
Netw	ork Authentication: Open System	~
	Data encryption: Disabled	~
	SPHRASE	
Key index (advanced) Network key:	. 1	
Confirm network key:		
OK	Cancel	

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.

If you want to setup security options for Soft AP, configure "Wireless Network Security" section referring to the following items.

Network Authentication	Select network authentication mode from dropdown menu.
Data Encryption	Select data encryption method from dropdown menu.
ASCII / PASSPHRASE	If the encryption method is WEP, check either "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 / Confirm network key	IF network authentication mode is WPA, please input WPA passphrase in both box.

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

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

# 4.2 Advanced Settings

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

🙁 REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) Abou	lt(A)	
🖃 😼 MyComputer	General Advanced Statistics ICS	
and the mass	General	
	Beacon Interval	
	100	
	DTIM Period:	
	3	
	Preamble Mode	
	Long	
	Set Defaults Apply	
< (100) >		
Show Tray Icon	Disable Adapter	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 **Set Defaults** to reset all settings back to default setting.

#### **4.3 Wireless Statistics**

Select **Statistics** tab and the data statistics about software access point will be displayed. Click **Reset** to reset the value of every item back to "0".

efresh(R) Mode(M) About(A)			- 189-2012-1-1
MyComputer Ge	neral Advanced Statistics ICS		
😪 Realtek RTL8192			
	Counter Name	Value	
	Tx OK	172	
	Tx Error	0	
	Rx OK	1960	
	Rx Packet Count	1960	
	Rx Retry	9	
	Rx ICV Error	0	
	RA ICO EIIO		
		· · · · · · · · · · · · · · · · · · ·	
	Reset		
	(Keset		
Show Tray Icon	Disable Adapter		<u> </u>
			Close
Radio Off			

# 4.4 Internet Connection Sharing (ICS)

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

If you have only one network adapter (except this software access point), you don't have to select network adapter here.

If you have more than one network adapter, select the one you wish to be used as Internet gateway and Click **Apply** to save changes (**Apply** is grayed out when no changes are made in this page).

REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) Abou	lt(A)	
🖃 繴 MyComputer 🥪 Realtek RTL8192	General Advanced Statistics ICS	
	Setting Internet Connection Sharing (ICS)	
	ConnName Device Name	
	Local Area Connection Realtek RTL8139 Family PCI Fast Ethernet NIC #2 Local Area Connecti Realtek RTL8139 Family PCI Fast Ethernet NIC	
	Public Network	
	Local Area Connection Realtek RTL8139 Family PCI Fast Ethernet NIC #2	
	Apply	
Show Tray Icon	Disable Adapter	Close

# 5. Troubleshooting

If you encounter any problem when you're using this wireless network adapter, 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 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> <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 adapter (you may have to move your computer if you're using a notebook computer) and click <u>Rescan</u> 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.</li> </ol>	
Nothing happens when I click <u>Open Config Utility</u>	<ol> <li>Please make sure the wireless network adapter is inserted into your computer's USB port.</li> <li>Reboot the computer and try again.</li> <li>Remove the adapter and insert it into another USB port.</li> <li>Remove the driver and re-install.</li> <li>Contact the dealer of purchase for help.</li> </ol>	
I can not establish connection with a certain wireless access point		

The network is slow / having problem when transferring large files	<ol> <li>Move closer to the place where access point is located.</li> <li>There could be too much people using the same radio channel. Ask the owner of the access point to change the channel number.</li> </ol>
	Please try one or more solutions listed above.