Wireless N Dual Band Adapter N900UBE

User Manual

Table of Content

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.

Chapter 1 Overview

Thank you for purchasing Rosewill's N900UBE. This is an extremely high-speed 802.11a/b/g/n dual band wireless network USB Adapter. This wireless network adapter is transferring data at a transfer rate of 450Mbps at both 2.4GHz and 5GHz.

N900UBE with an easy-to-install USB 2.0 interface and external antenna, setting up this wireless adapter will be just as easy!

1.1 Package Content

Before getting started, please verify that your package includes the following items:

1. Rosewill N900UBE Wireless Dual Band USB Adapter x 1
2. Quick Installation Guide x 1
3. Resource CD x 1, including:
   - Wireless Utility and Driver
   - User Manual
   - Quick installation guide x 1

Note:

Make sure that the package contains the above items. If any of the listed items are damaged or missing, please contact with your distributor.

1.2 Overview of the Product

Thank you for purchasing this high-speed wireless dual band network card! This network card can operate in 2.4GHz or 5GHz wireless network. Excepting common wireless standards 802.11a/b/g, this wireless network card is also able to access 802.11n wireless networks - data transfer rate is 300Mbps, and that's six times faster than 802.11g wireless network!

1.3 Features

- High transfer data rate – up to 450Mbps at 2.4GHz or up to 450Mbps at 5GHz
- Portable dongle type design.
- Supports Infrastructure, Ad-Hoc, and Wi-Fi Direct* connection method.
- QoS function: provides Wi-Fi Multimedia (WMM) quality of service to secure audio/video/voice data traffic as higher priority.
- 802.11a/b/g/n compatible.
- Supports 64/128-bit WEP, WPA, WPA2 with IEEE 802.1x functions for high level of security.
- Supports One-Click button WPS (Wi-Fi Protected Setup) connection.

- USB 2.0 interface - you can get it installed on your computer in just few seconds!
- Supports Soft AP mode – Broadcasting wireless signals while surfing

Note:

Wi-Fi Direct requires compatible devices which supporting this Wi-Fi Standards.

1.4 Product Specification

Chipset	Ralink RT3573
Standard	IEEE 802.11a/b/g/n
Interface	USB2.0 Type A
Frequency Band	2.4000~2.4835GHz 5.150~5.825GHz
Data Rate	11a: 6/9/12/24/36/48/54Mbps 11b: 1/2/5.5/11Mbps 11g: 6/9/12/24/36/48/54Mbps 11n (20MHz): MCS0-23, up to 216Mbps 11n (40MHz): MCS0-23, up to 450Mbps
Output Power	2.4GHz: 11b:16±1.5 dBm,11g:14±1.5 dBm; 11n(20MHz):14±1.5 dBm, 11n(40MHz): 12 ±1.5 dBm 5GHz: 11a:11±1.5 dBm, 11n(20/40MHz): 11±1.5 dBm
Receive Sensitivity	2.4GHz: 11b@11Mbps: -87 ±2dBm,11g@54Mbps: -71 ±2dBm 11n(20MHz)@MCS7:-69 ±2dBm,11n(40MHz)@MCS7:-66 ±2dBm 5GHz: 11a@54Mbps: -70 ±2dBm 11n(20MHz)@MCS7:-69 ±2dBm,11n(40MHz)@MCS7: -65 ±2dBm
Security	64/128 bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK (TKIP/AES); WPS button
Antenna	2 internal antennas plus 1 external antenna (3T3R)
LED	Link/Activity
OS support	Windows OS: 2000/XP/Vista/7 (32 / 64bit) Mac OS: Mac OS 10.5, 10.6, 10.7
Dimension	3.43 x 10.24 x 7.09 in (87 (L) x 26 (W) x 18 (H) mm)
Weight	0.06 lb (25 g)
Temperature	Operating: 32~104°F (0~40°C); Storage: -40~140°F (-40~60°C)
Humidity	Operating: 0 ~ 90% (Non-Condensing); Storage: Max. 95% (Non-Condensing)

1.5 System Requirement

You must have at least the following

- A desktop PC or Notebook with An empty USB 2.0 port (May not be able work with USB 1.1 port, performance will be greatly reduced)
- At least a 300MHz processor and 32MB of memory
- Windows OS for WinXP, Vista, and 7 or Mac OS 10.5, 10.6, 10.7
- At least 100MB of available disk space
- A CD-ROM Drive
- A 802.11n、802.11g or 802.11a/b Wireless (and Dual Band) Access Point/Router (for infrastructure Mode) or another 802.11n、802.11g or 802.11b wireless (and Dual Band) adapter (for Ad-Hoc; Peer-to-Peer networking mode).

1.6 LED Status

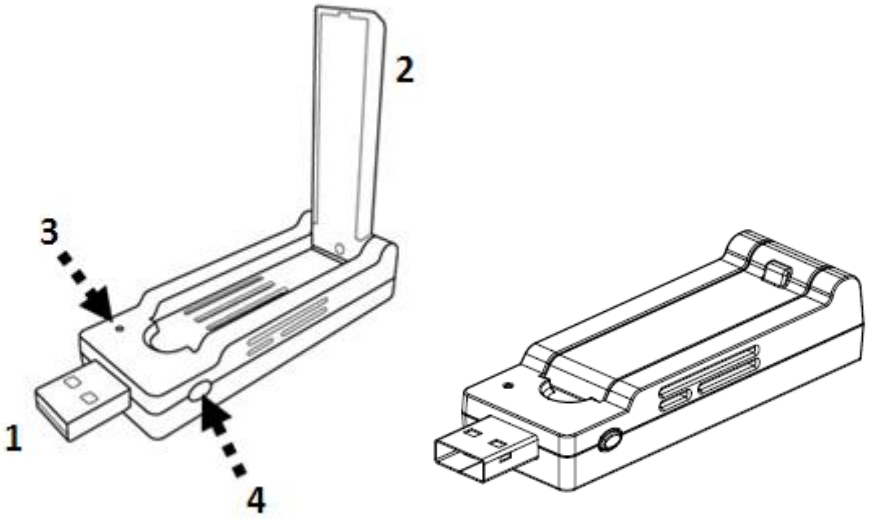
This USB Adapter contains one LED. Please refer to the following description for LED definition.

LED Name	Light Status	Description
Link/ Activity	Blinking	Linked to a wireless access point / Transferring data
	Off	Power off

Chapter 2 Installation Guide

2.1 Hardware Diagram

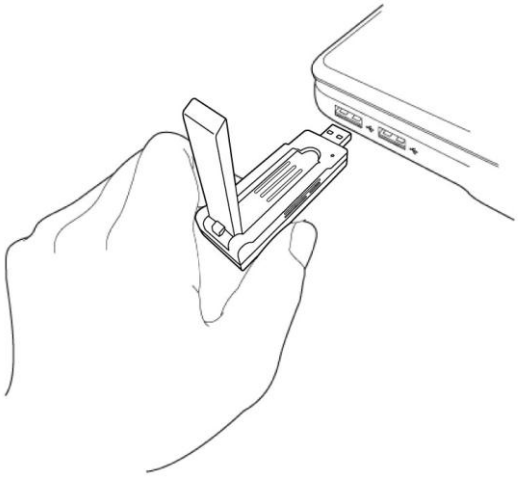
1. USB Connector
2. External Wireless Antenna
3. Link/Activity LED
4. WPS Button (Press to activate WPS pairing mode)



2.2 Dual Band Wireless Adapter Driver and Utility Installation

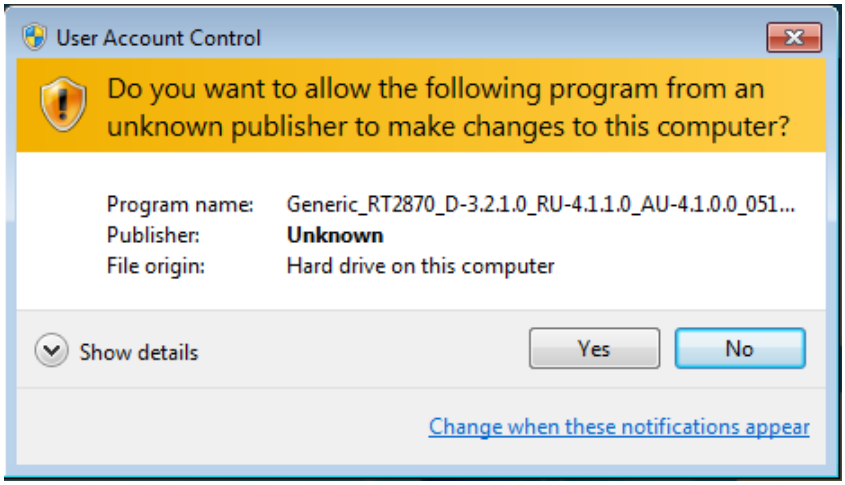
Please follow the following instructions to install your new wireless network card:

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.

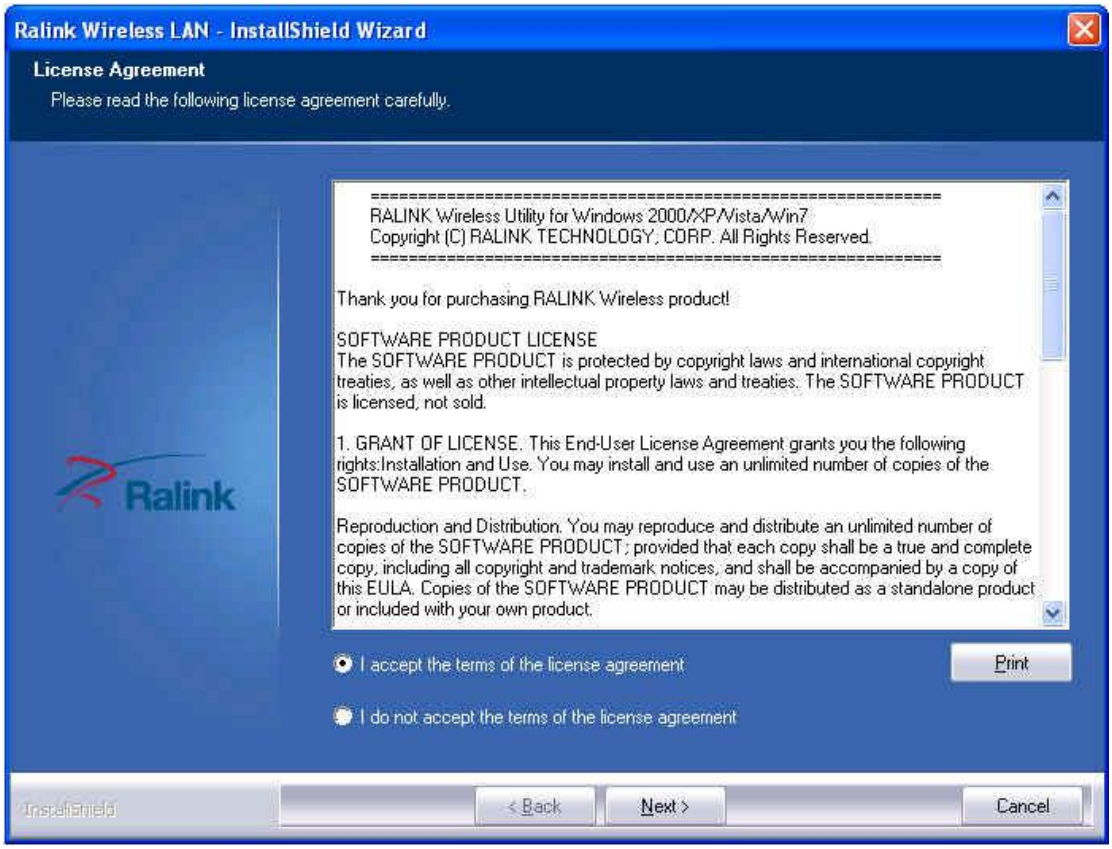


2. Insert device driver CDROM into the CD/DVD ROM drive of your computer, and execute '**Setup.exe**' program in 'Driver' folder.

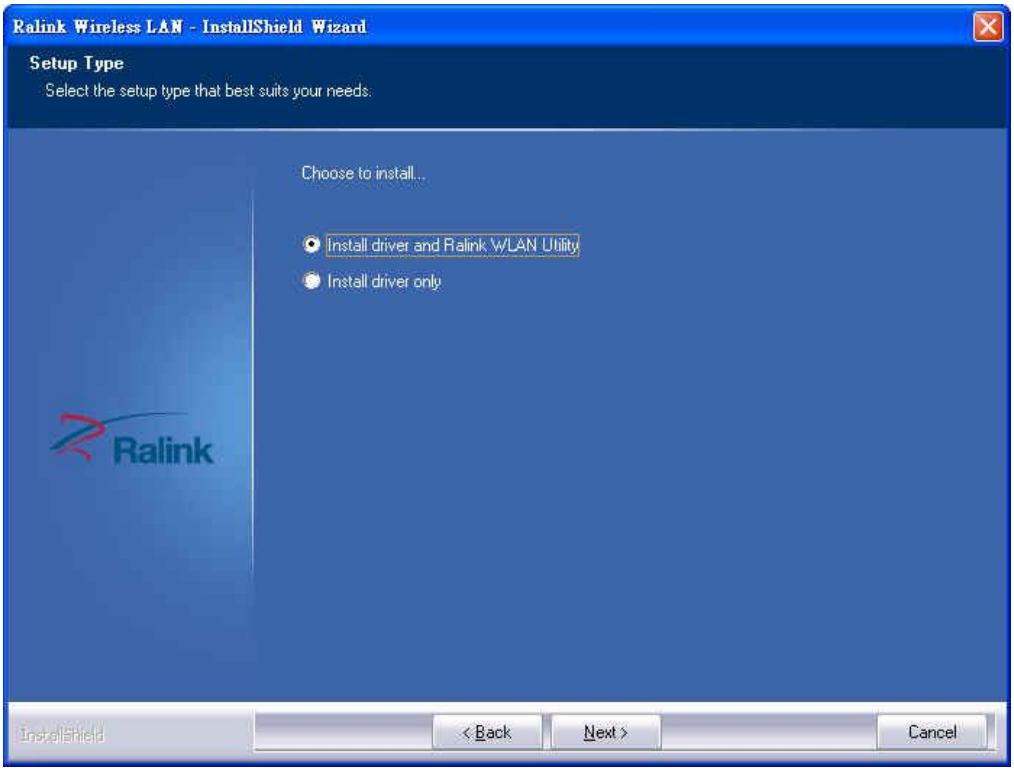
3. On Windows Vista / Windows 7 computer, you may see UAC (User Account Control) window popup to warn you that this program is going to make changes to your computer, click '**Yes'** to continue.

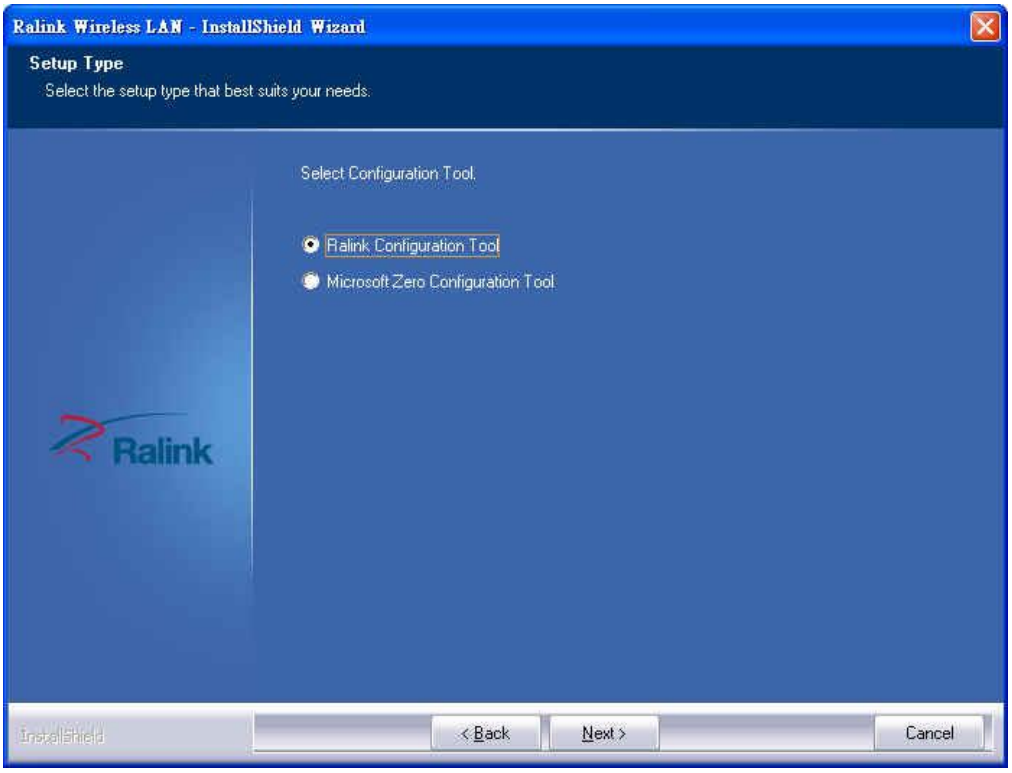


4. Please select "**I accept the terms of the license agreement**", and then click '**Next'**



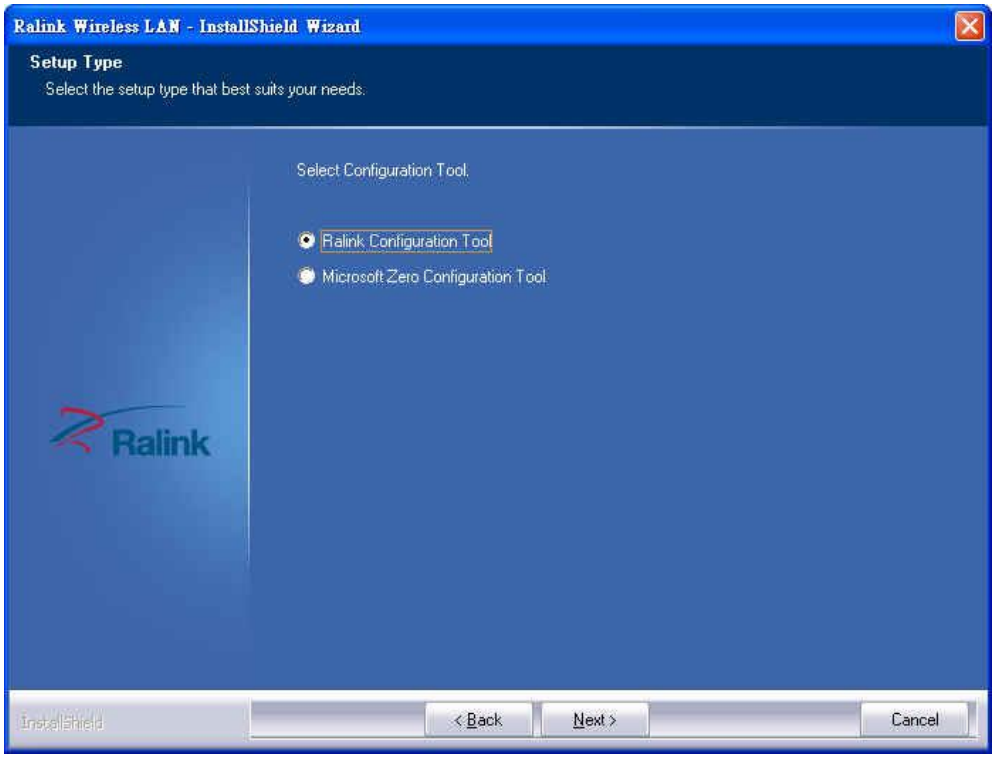
5. Select '**Install driver and Ralink WLAN Utility**' and click '**Next**' to continue. Optionally, you can select '**Install driver only**' to install wireless network card driver only, and use Windows' built-in wireless manager.
   If you don't know which one you should choose, select '**Install driver and Ralink WLAN Utility**' for maximum functionality.





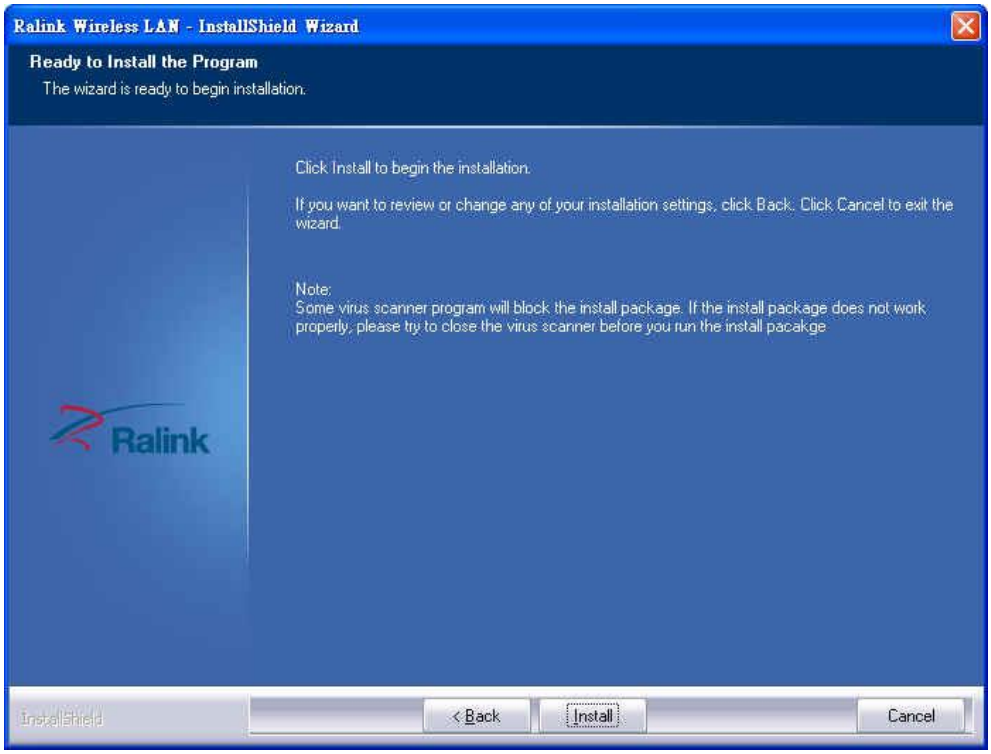
(Windows XP Only)

6. Select the wireless configuration utility you wish to use, then click '**Next**' to continue. It's recommended to select '**Ralink Configuration Tool**' for maximum functionality. If you used to use Windows' built-in configuration tool, select '**Microsoft Zero Configuration Tool**'.

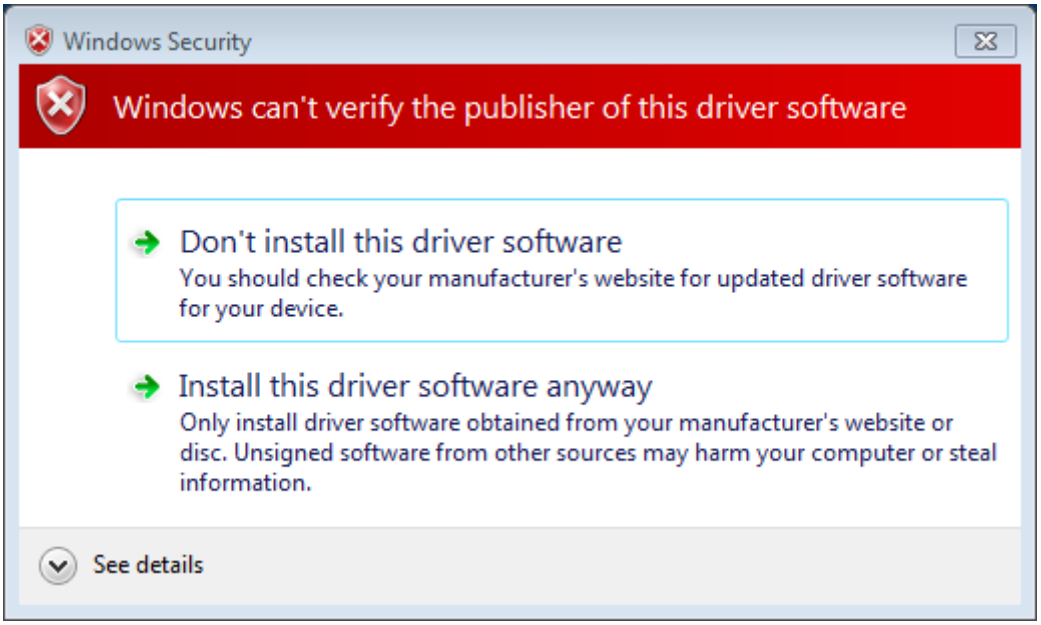


(Windows XP Only)

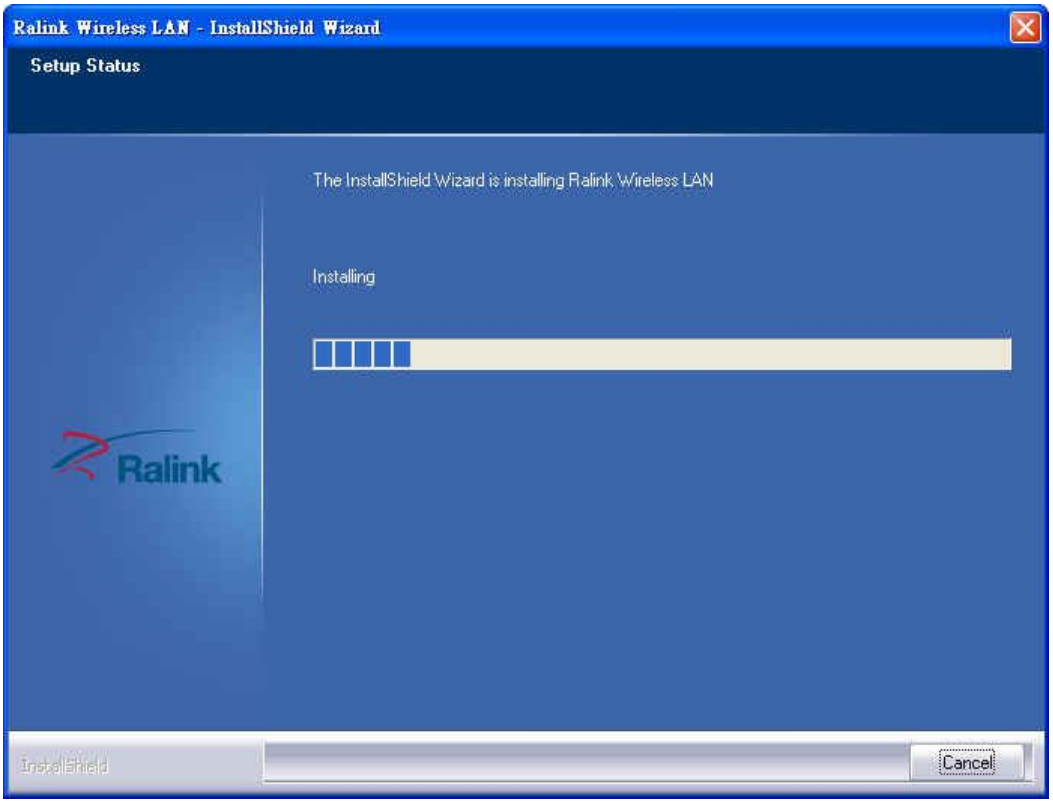
7. Click '**Install**' to continue.



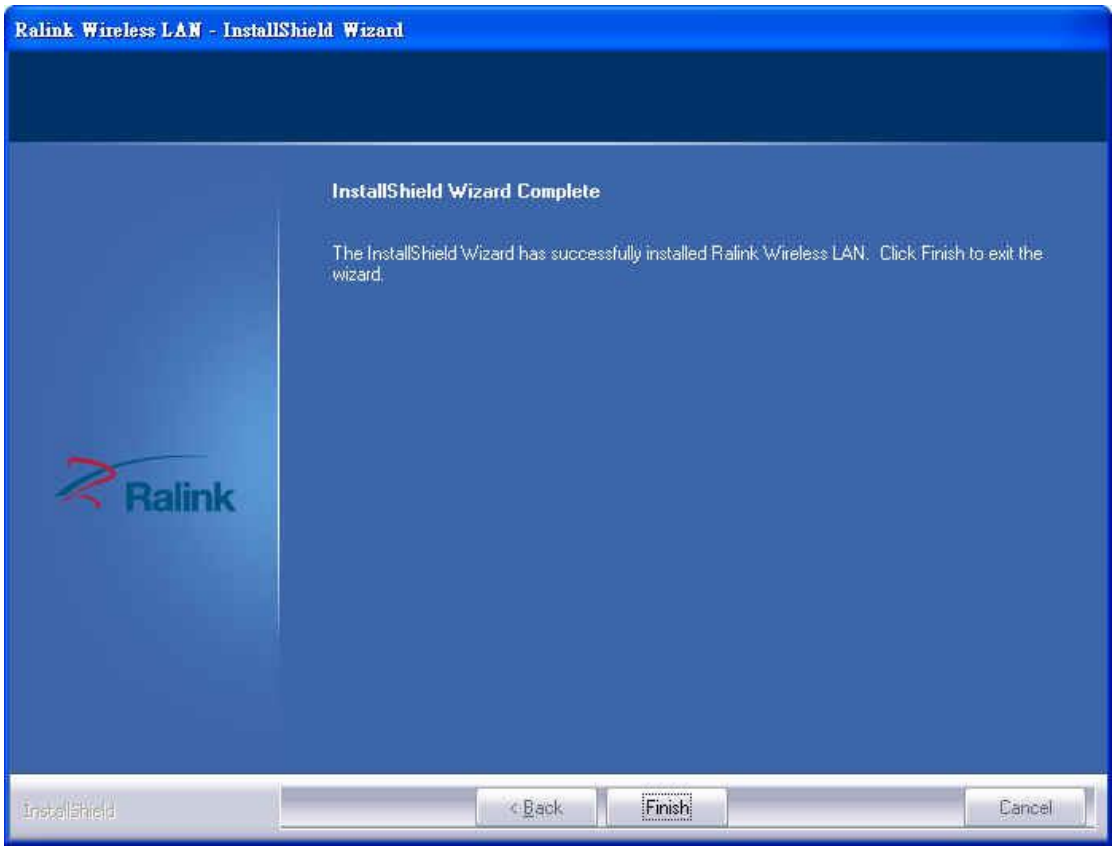
Please note: If you see this message, click 'Install this driver software anyway' to continue.



8. Please be patient while installation is in progress, this may require few minutes.



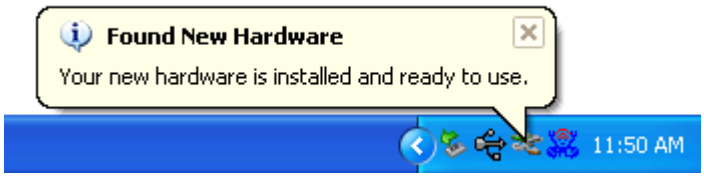
9. Click 'Finish' to finish installation procedure.



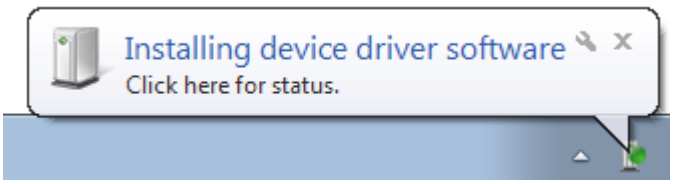
10. Please insert your USB wifi network card to any empty USB port now. A popup message indicating that your computer found '802.11n USB Wireless LAN Card' will appear. Please be patient while Windows is installation driver.

    This message will only appear when you insert the USB wifi network card to your computer's USB port, or you insert the network card to a different USB port of your computer.

11. You should be able to see this popup message, indicating your new USB network is ready to use; If not, please either try to re-install driver, or insert the network card to another USB port of your computer.



(Windows XP)



(Windows Vista / 7)

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

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 uses 5 colors to represent current network status:

(Green)	The Wireless Adapter established, signal strength good
(Yellow)	The Wireless Adapter established, signal strength normal
(Red)	The Network connection established, signal strength poor
(Blue)	The Network connection is not yet established
(Black)	The Wireless Adapter is not found on your computer

Chapter 3 Wireless Connection Guide

This chapter describes how to configure your Adapter for wireless connectivity on your Wireless Local Area Network (WLAN) and use the data security encryption features.
After Installing the Adapter, the Adapter's tray icon will appear in your system tray. It appears at the bottom of the screen, and shows the signal strength using color and the received signal strength indication (RSSI).

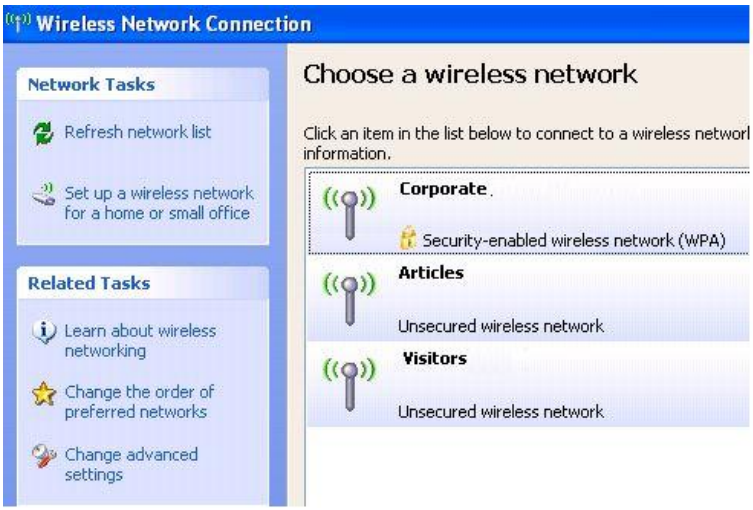
In the following instruction for making a network connection, we use the provided Utility to configure your wireless network settings.

Note: You could use either the software we provide or Microsoft Zero Configuration tool to configure this adapter.

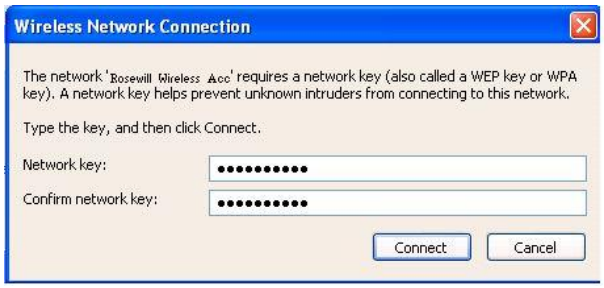
3.1 Connecting with Microsoft Zero Configuration tool (Win XP)

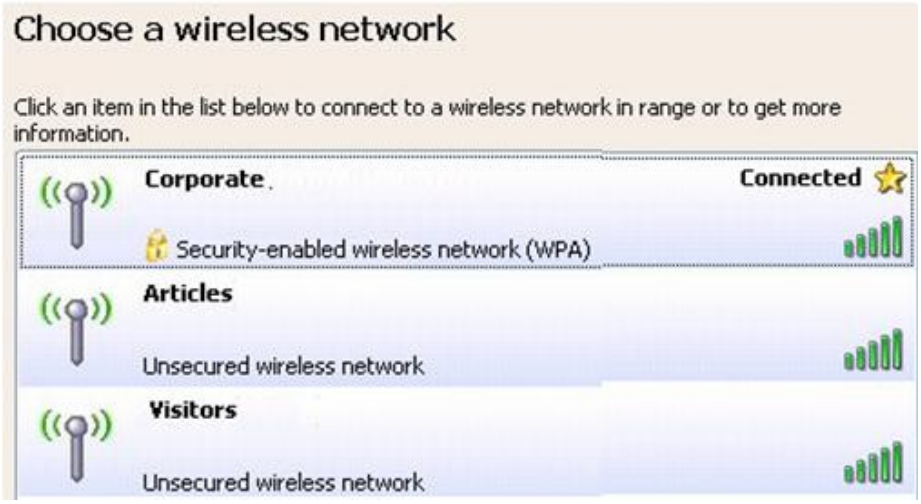
- After specifying the Microsoft Zero Configuration tool to configure your wireless network, right click on the  icon on system tray. Select "**View Available Wireless Networks**" to specify your wireless network.

- The tool shows the available wireless networks. Select your demanding network to connect with.



- If prompted, enter the password/network key for your wireless network and click the Connect button.





3.2 Connecting with Window Vista and Windows 7

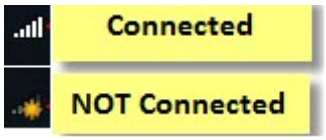
You can easily access to wireless with Win Vista and Win7. First, move your mouse to lower right hand corner as below and click on the icon where arrow pointing to.

Click **Refresh** to get an update of your Wireless Network Connection. This should help you search the SSID of the network you want to connect to.

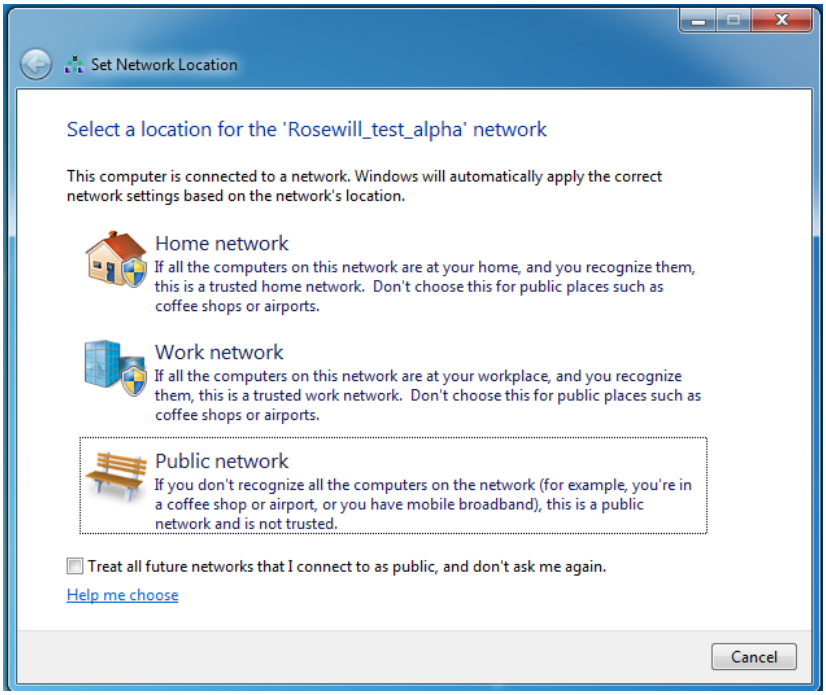
Select your desired SSID, then Click “Connect”.

You will be prompt to ask you entering the network security key. Once entered, please click OK to complete.

You should see below in a very short period and find out whether you are connected or now.

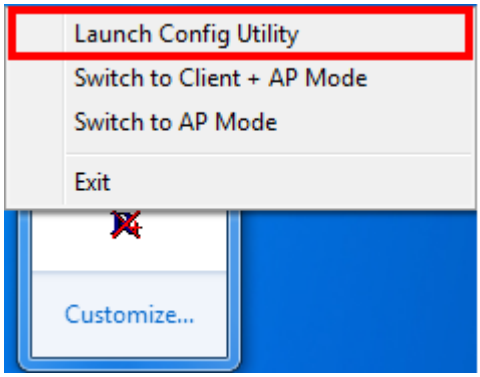


If this is your first time connect, you will see a window show up and ask you for setting up Network Location. Please select the location based on your internet usage.



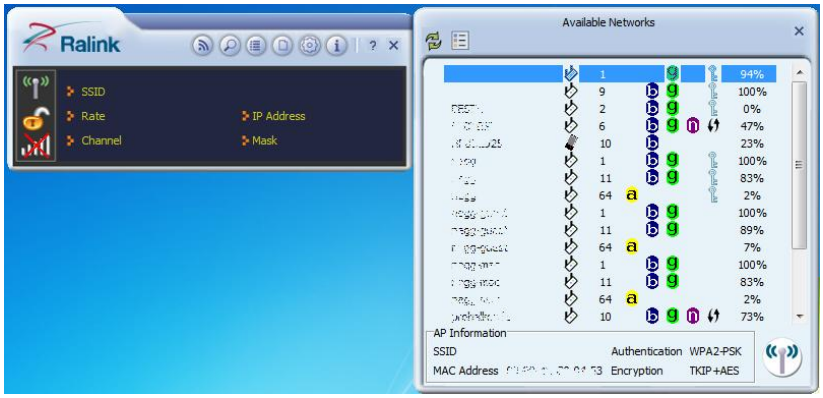
3.3 Connecting with Ralink Wireless Utility

We also provide a Ralink Wireless Utility for users to connect to a wireless network easily. It provides more information and configuration for this adapter. As default, the Utility will start automatically if you select "**Install driver and Ralink WLAN Utility**" when installing drivers. You can find this icon  and double click to start it on the lower right hand corner of your computer desktop. Or you can **right click** the tray icon and select **Launch Config Utility**.



This is the startup window of the Ralink Wireless Utility
Here is each button's function:

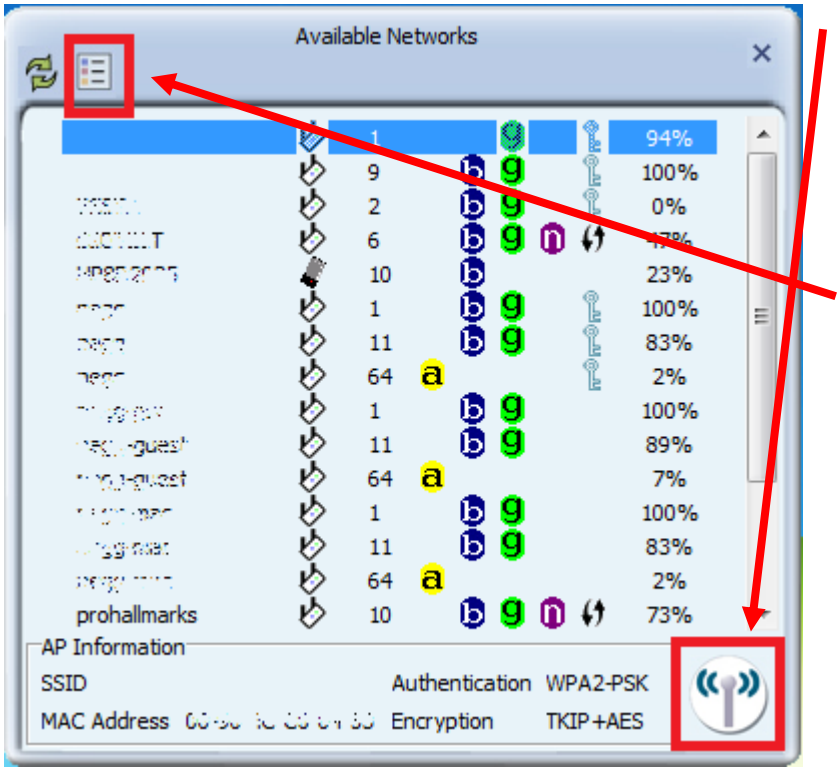
	Wi-Fi Direct (will appear only if your computer can support this function)
	Site Survey
	Link Information
	Profile
	Advanced
	About



Please first start by selecting to search nearby wireless signal for connection.

When click on , a window will popup and presents to you the nearby Wi-Fi Signals.

If you did not see the signal you want to connect, please click to rescan.



One time connection:

Please first highlight your desired SSID, then click . Then follow the popup window's direction to connect. (**Please see for detail**)

Setup the Profile for all future connection:

Please click Add to Profile to add the SSID to profile for all future use. For detail, please follow **Add/Edit Profile**.

Now you have completed the setup of your wireless network. You should be ready to surf!

Chapter 4 Ralink Utility Configuration

Ralink Utility enables N900UBE to serve as 3 modes: Wireless Client mode, Client + AP mode, and AP mode.

- Wireless Client mode: This is the basic and default mode for N900UBE when you install the Utility. N900UBE will serve as a wireless dual band adapter at this mode.

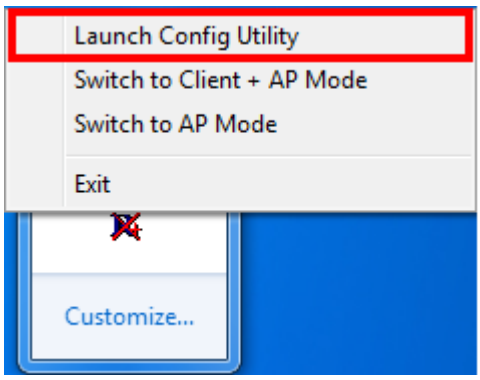
- Client + AP mode: N900UBE under this mode will serve as a wireless dual band adapter while broadcast signals that other Wi-Fi devices can connect to. **(Note: N900UBE can only transmit 2.4GHz signal if receives 2.4GHz signal from wireless router, and 5GHz signal if receives 5GHz signal from wireless router)**

- AP mode: N900UBE as AP will serve as a signal broadcaster while the computer it installed in is connecting to internet via wire connection. **(Note: N900UBE can only transmit either 2.4GHz signal or 5GHz signal in one time, but not at the same time)**

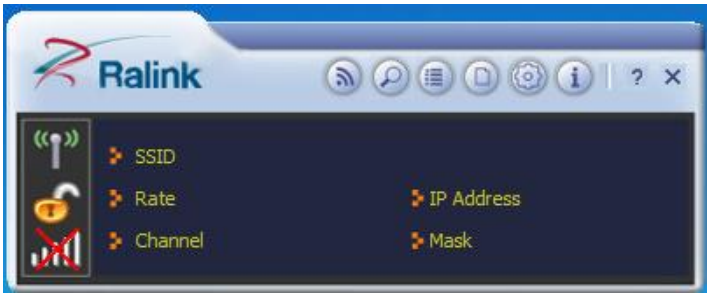
4.1 Wireless Client Mode

Wireless client Mode is the default access mode for N900UBE. N900UBE serves as a client to receive the wireless signal from the wireless router for connecting to the internet.

You can find this icon  at the system tray and double click to start it on the lower right hand corner of your computer desktop. Or you can **right click** the tray icon and select **Launch Config Utility**.



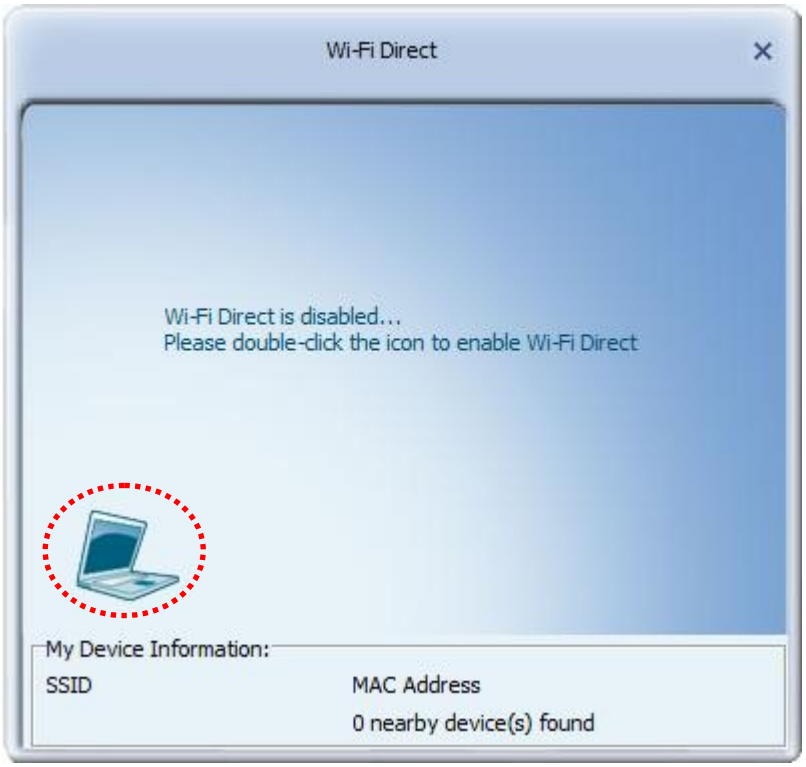
Once launched, you should see this window popup. Please refer to the later sessions for more detail introduction on Ralink Utility.



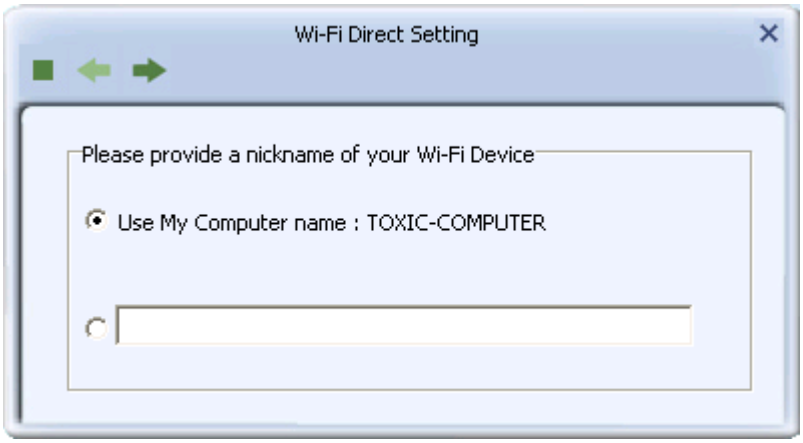
4.1.1 Wi-Fi Direct

Wi-Fi direct is a new technology. You can establish direct connections with one or more network devices which also support this technology without the help of wireless access point. It's similar to Ad-Hoc mode but more simple and powerful.

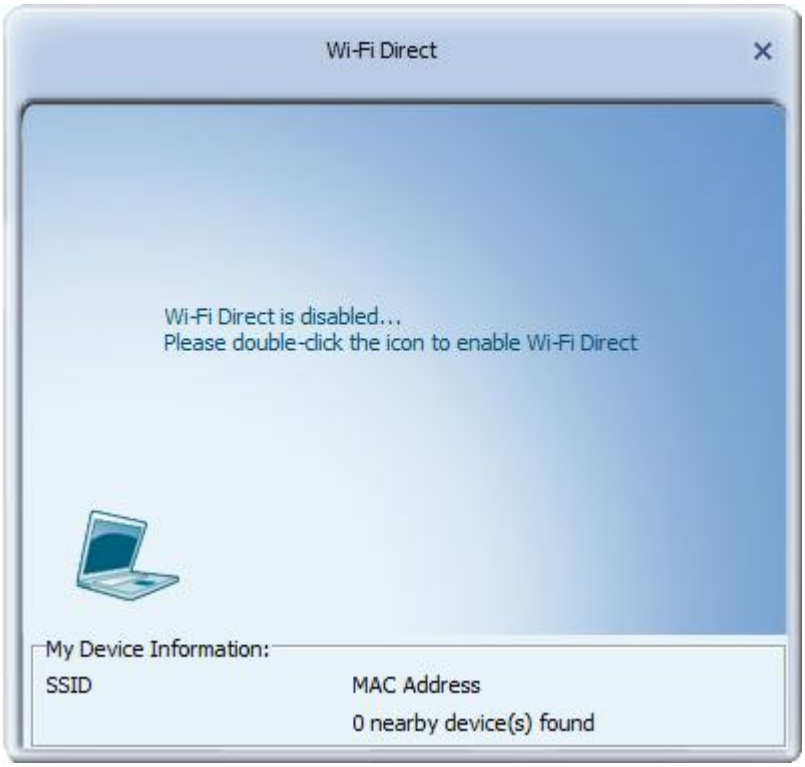
To enable Wi-Fi direct, double-click the computer icon:



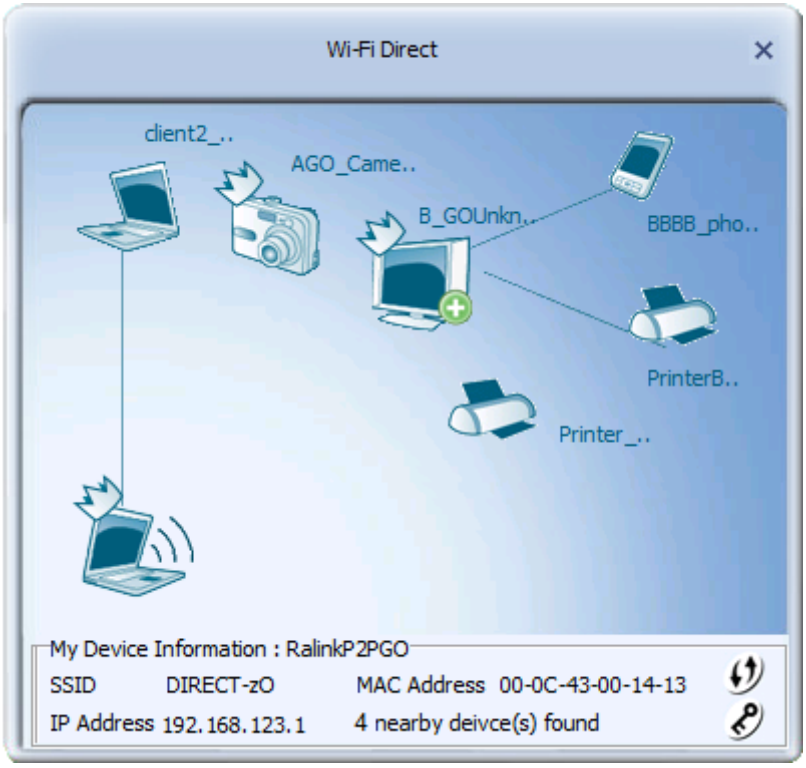
You'll be prompted to input the name of your computer. It will use your computer's name by default, however, you can input a new one here by selecting the blank field below and input a new name, then click right arrow to continue.



Your computer will enter Wi-Fi direct standby mode and scan for any Wi-Fi direct capable computer nearby.



When one or more device(s) is found, you'll see the topology of all nearby devices, like the example shown below:



In this topology:

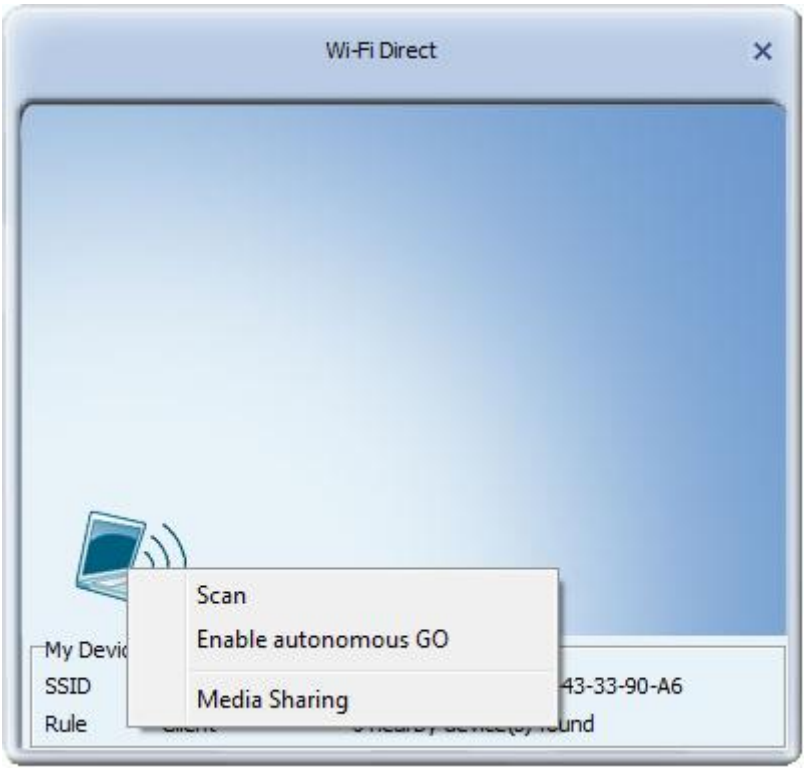
 GO (Group Owner) indicates an AP-like device.

 This indicates this device is the head of one or more client devices (multiple clients belong to this GO).

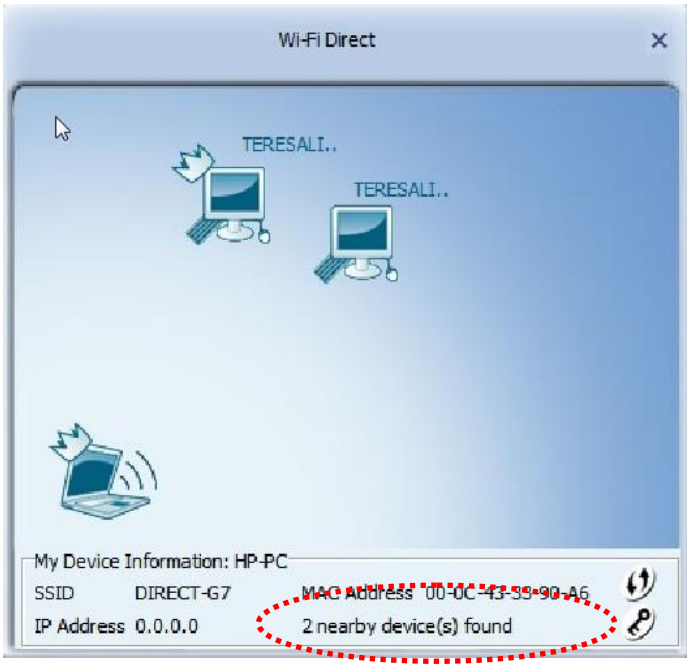
 indicates you can configure secured connection with this device by WPS

 indicates this device uses WPA2AES key.

To access more Wi-Fi direct functionalities, right-click on the laptop icon on the bottom-left corner, and a menu will appear:



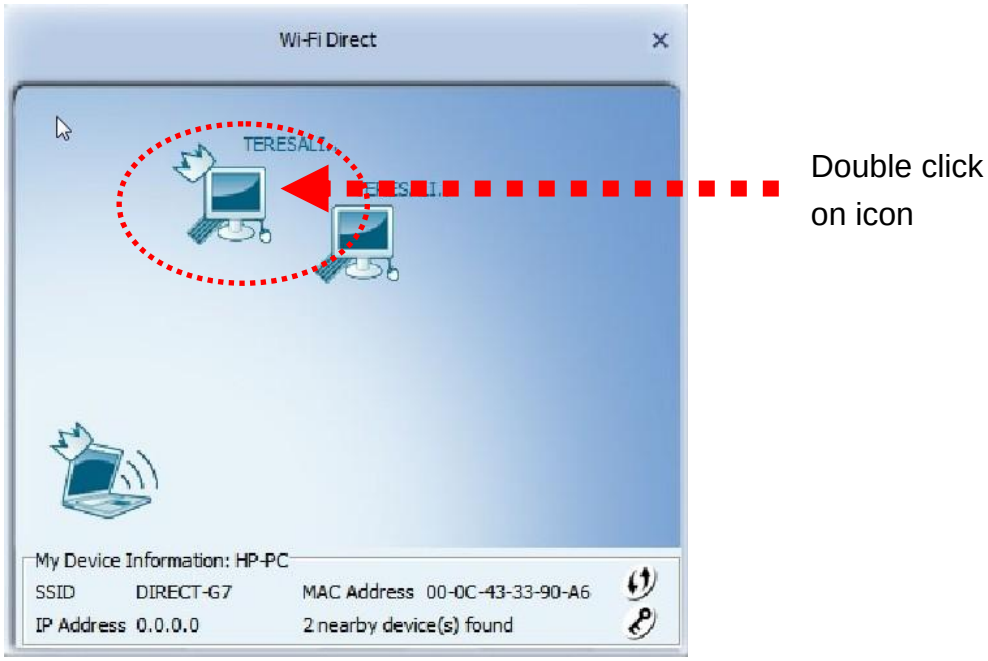
Click ‘Scan’ to discover nearby Wi-Fi Direct devices.
(see example below, 2 nearby devices are found)

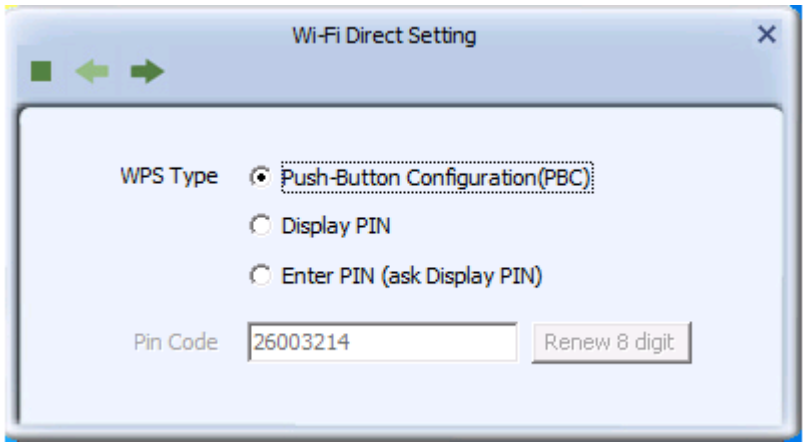


For descriptions of other functionalities, see chapters below.

4.1.1.1 Establish connection with P2P device

To establish connection with a P2P (peer to peer) device, double-click on its icon, and you'll be prompted to select its WPS connection type:
(an example as below)





Please select a WPS type here.

Push-Button Configuration: Using PBC configuration method to establish connection.

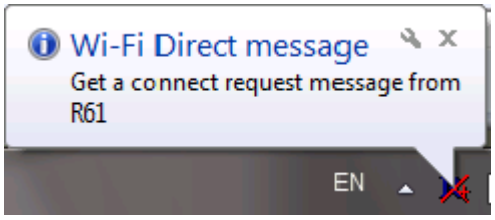
Display PIN: Using display PIN method to establish connection. When in this method, you'll see a 8-digit number shown here. Input this number on another device to establish connection.

Enter PIN: Input the 8-digit PIN number displayed on another device in 'PIN Code' field to establish connection.

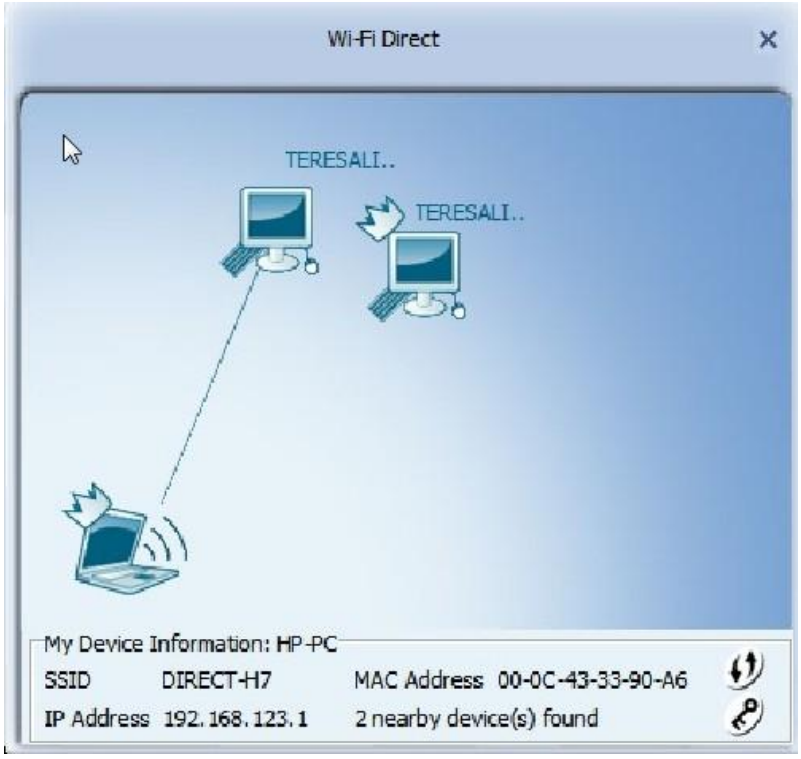
Then click right arrow  to continue.

4.1.1.2 Accept Wi-Fi Direct Connection Request

When your computer's Wi-Fi direct function is enabled, and some other computer wishes to connect with your computer, you'll be prompted by a pop-up message:



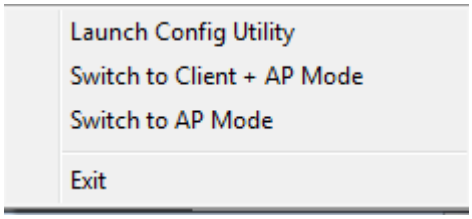
Click the pop-up message to accept incoming connection request. Then, When Wi-Fi Direct is successfully connected, you will see a straight line between 2 devices.
(See example as below)



4.1.1.3 Wi-Fi Direct / Legacy client concurrent mode

This wireless network card can operate in both Wi-Fi direct and legacy wireless network client mode. So you can establish Wi-Fi direct connection and connect to access point at the same time.

When Wi-Fi direct is enabled, you can right-click Ralink utility icon, and a menu will appear:



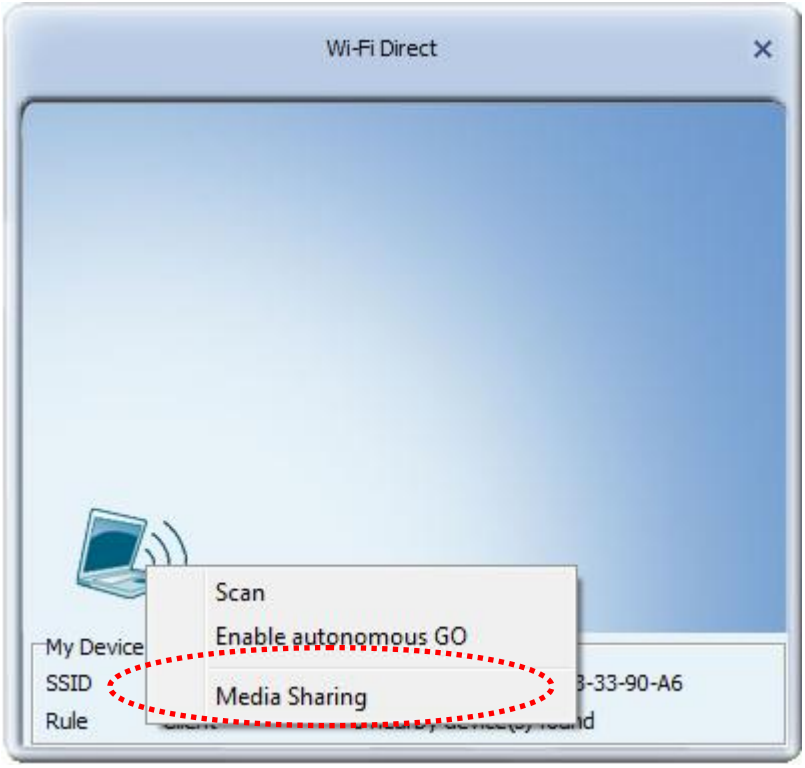
There are 2 modes available:

Switch to Client + AP Mode: enable network client and access point functionality at the same time.

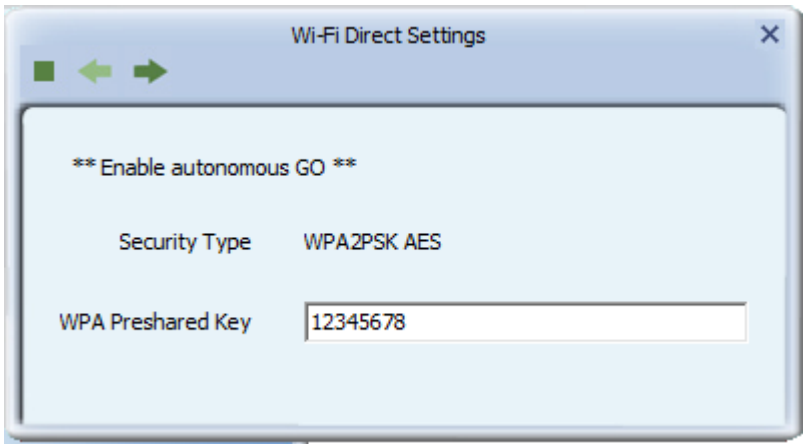
Switch to AP Mode: Enable access point mode only.

4.1.1.4 Autonomous GO

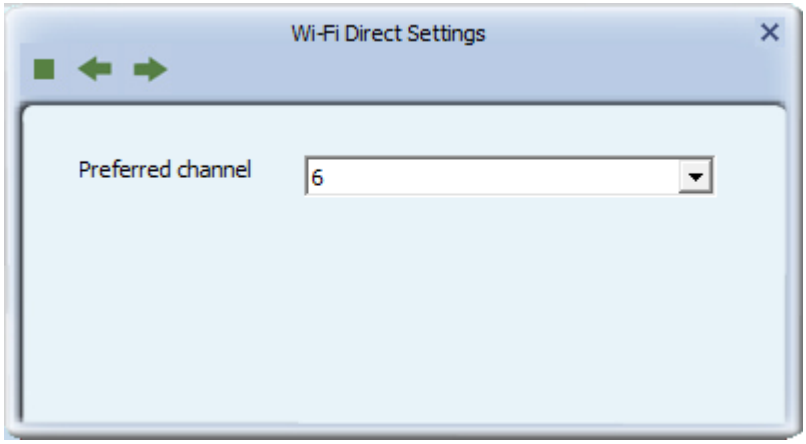
Enable this function to allow other users to initiate a Wi-Fi Direct ‘GO’ directly. To use this function, select ‘Enable autonomous GO’ by right-clicking laptop icon at the bottom-left corner:



You’ll be prompted to input a WPA2-PSK key for autonomous GO:



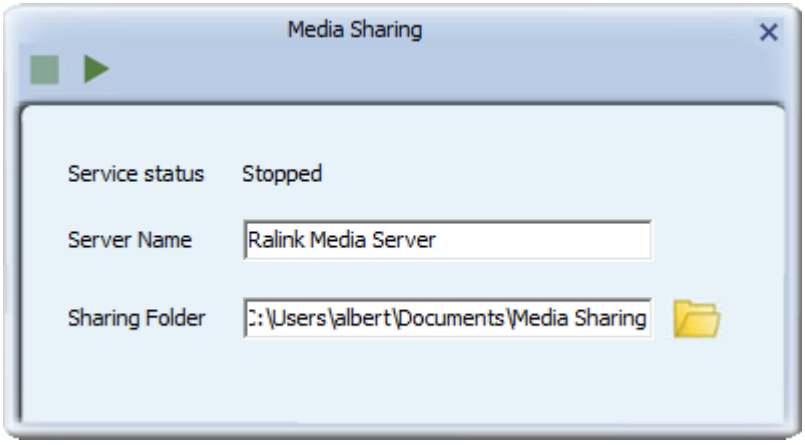
You'll also be prompted to select an operating channel for this autonomous GO connection: Select a preferred channel in 'Preferred channel' dropdown list, then click button to finish.



4.1.1.5 Media sharing

You can share files on your computer with other Wi-Fi direct points. To enable this function, right-click on the laptop icon on the bottom-left corner, and a menu will appear:

Click ‘Media Sharing’ to continue. You’ll be prompted to select a folder on your computer for file sharing.

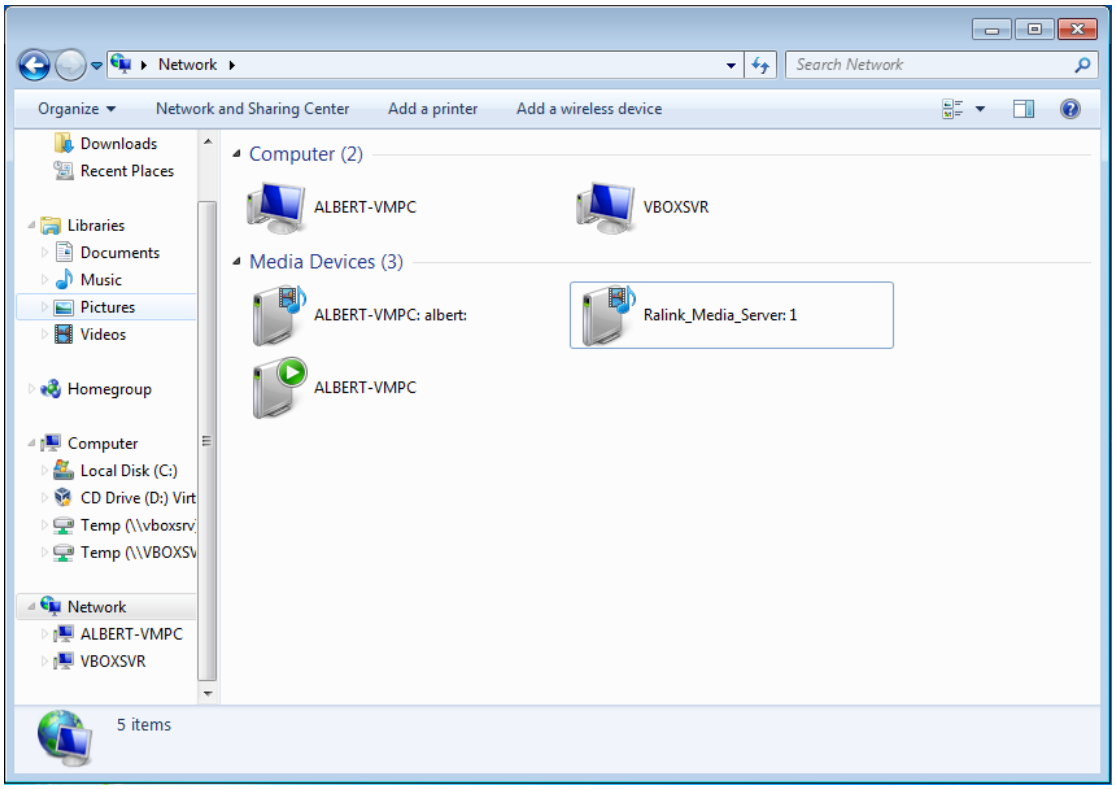


You can click folder icon to select a folder, then click right arrow to start sharing files on your computer. For security reasons, do not select a folder which contains sensitive or personal files, only select the folder which contains public files.

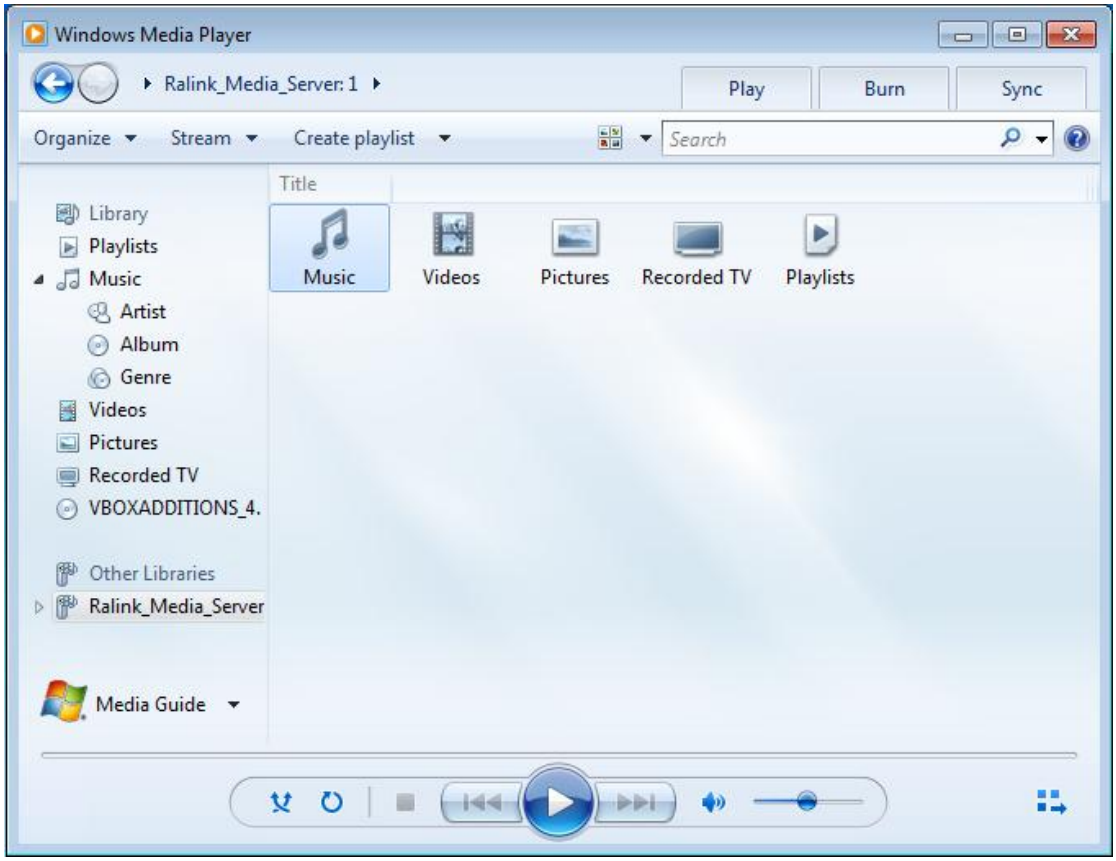
Please note that a new folder named ‘Media Sharing’ will be created under ‘C:\Users\XXX\Documents’ folder, where ‘XXX’ is your user name in Windows.

Other users may access the files on your computer now. To stop sharing file, click stop button.

After you enabled media sharing function, other computers can see your sharing folder by clicking ‘Network’ item in Windows Explorer:

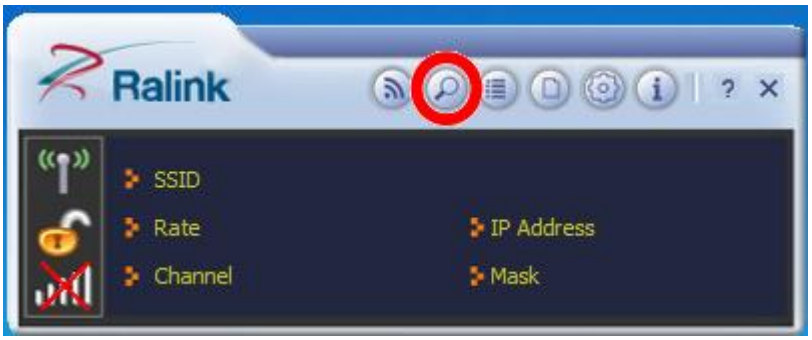


Double-click ‘Ralink Media Server’ icon to open Windows media player, users can select the category of media files you shared.

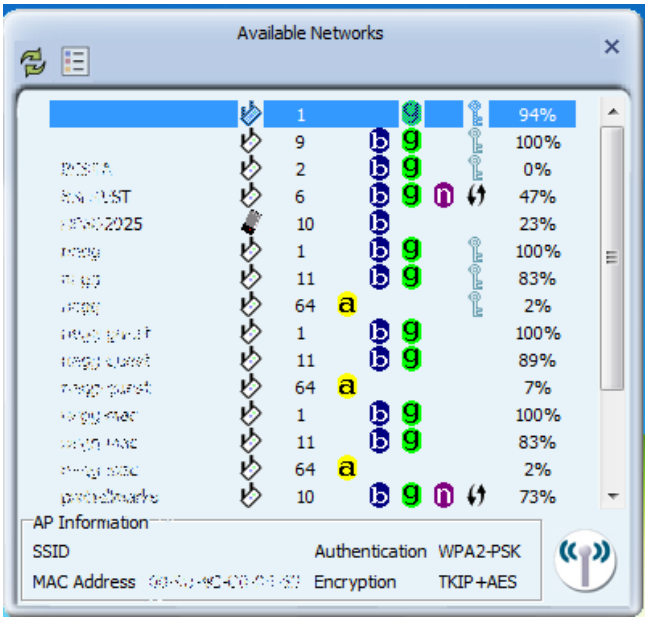


4.1.2 Site Survey

Site Survey shows you all surrounding wireless networks from the last scan.



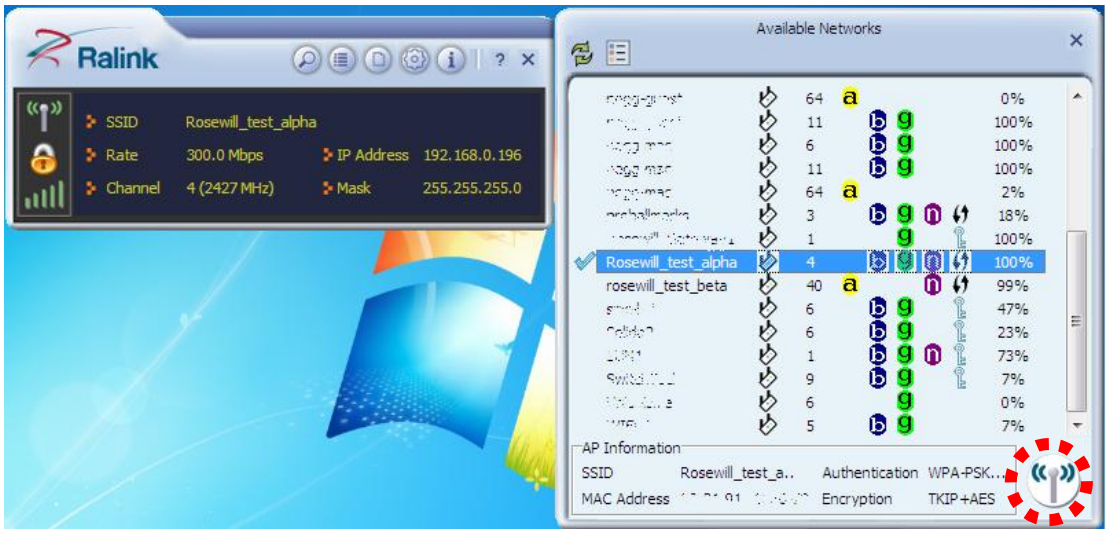
Click on Site Survey button  from menu bar, the information window will pop out.



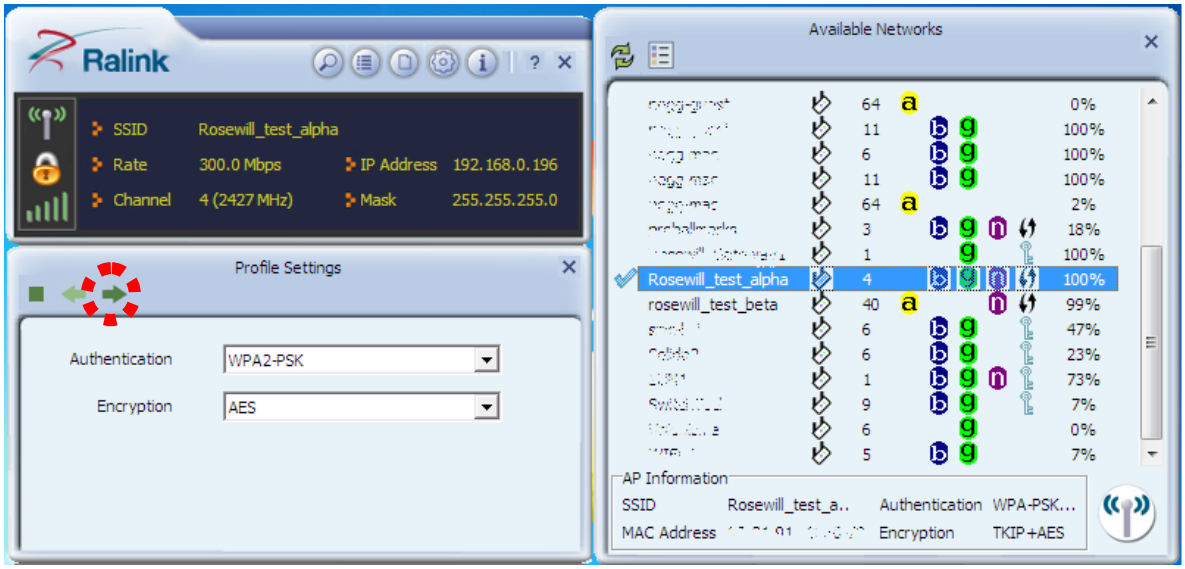
- Rescan: to update and refresh surrounding wireless networks
- Profile: to jump to profile list window
- Connect: select one wireless network and click this button to connect it

4.1.2.1 Connect

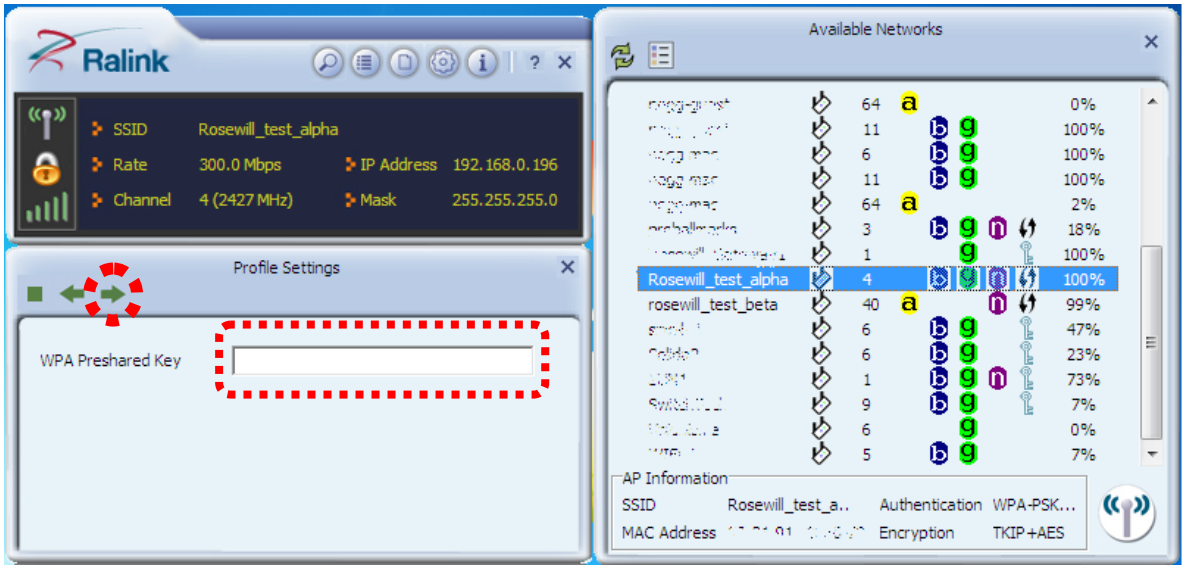
Once you highlighted the desired SSID, then click .



You should see a “Profile Settings” window show up and Utility will automatically detect your SSID’s “**Authentication**” and “**Encryption** “setting. So unless you want to adjust the setting manually, otherwise, you can just click for next step.



You will be asking to enter the **WPA Preshared Key** (or any type of the **Key** based on your **Authentication** and **Encryption** type. The **WPA Preshared Key** is your SSID's connection password which is pre-set in the wireless router. Please enter the **Key** then click  for complete the connection process.



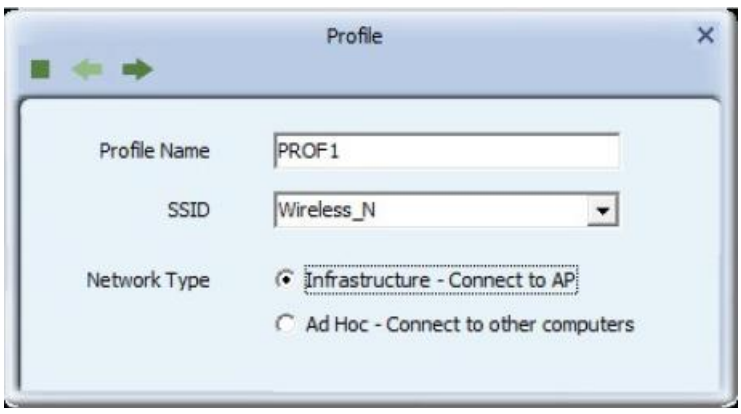
4.1.3 Profile

Profile can records your favorite wireless setting among your home, office, and other public hotspot. You can save multiple profiles and activate anyone from the record at your preference.

Click  Profile button from menu bar, below window will pop out.

-  Add: to create a new profile
-  Delete: to delete an existing profile
-  Edit: to edit/modify/change parameter of an existing profile
-  Import: import the dedicated profile
-  Export: save the selected profile as backup
-  Add WPS Profile: to configure WPS settings
-  Activate: to make an existing profile become active and to connect

4.1.3.1 Add / Edit Profile



- **Profile Name:** Enter a name for the profile edited.
- **SSID:** The name of your wireless network.
- **Network Type:**

  a. Infrastructure – A wireless Router and/or Access Point is required.

  b. Ad-hoc – Peer-to-Peer network, no base station required.
- **Next:** Click this button to continue.
- **Back:** Click this button to go back to previous step.
- **Cancel:** Click this button to close the window.

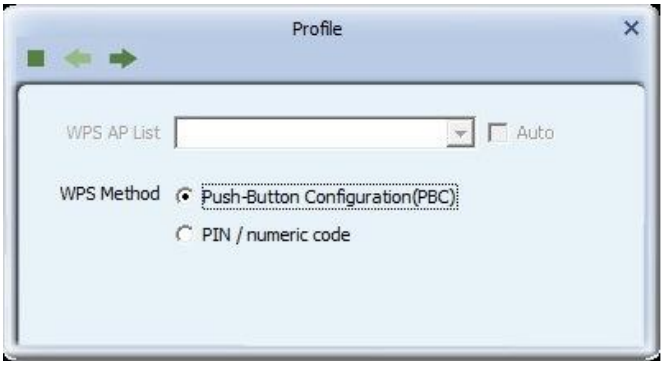
After entering your desired Profile Name and SSID, Click Next to configure encryption settings.

- **Authentication**: Open, Shared, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1x, CCKM.
- **Encryption**: None, WEP, TKIP, AES

4.1.3.2 Add WPS Profile

Add WPS Profile supports the configuration setup using PIN/numeric code (PIN) configuration method or Push-Button Configuration (PBC) configuration method. WPS (Wi-Fi Protected Setup) simplify the security setup and management of Wi-Fi networks.

- **Push-Button Configuration(PBC)**: Default setting, push buttons to complete auto-check and connections between N900UBE and other wireless device



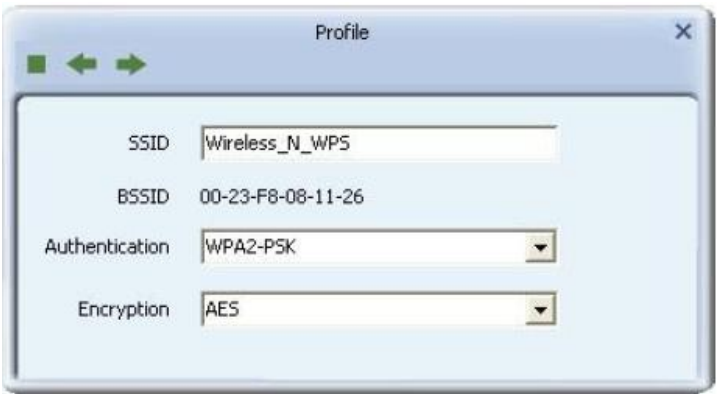
- **PIN/numeric code:** Enter 8 digit numbers Pin code to automatically connect N900UBE with wireless devices around.

1. Select WPS AP from drop-down menu or check Auto checkbox to find WPS AP automatically.

2. Select Config mode for connecting the WPS wireless network.

- **Enrollee**: As a client device. Click Renew button to update pin code.
- **Registrar**: As a host AP. Enter 8 digit numbers Pin code and click **WPS Profile** button for detail configuration.

3. Click **WPS Profile** button to configure below settings

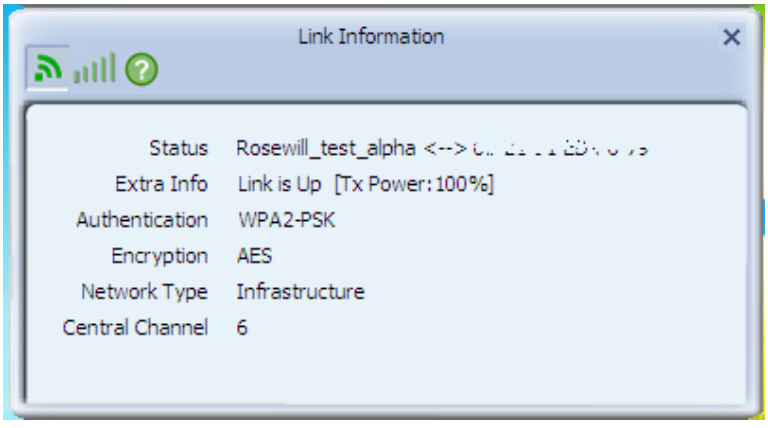


- **SSID**: Enter a name of SSID for WPS wireless network
- **BSSID**: It is a 48bit identity used to identify a particular BSS (Basic Service Set) within an area. In Infrastructure BSS networks, the BSSID is the MAC address of the AP.
- **Authentication**: Select from drop-down menu.
- **Encryption**: Select from drop-down menu.

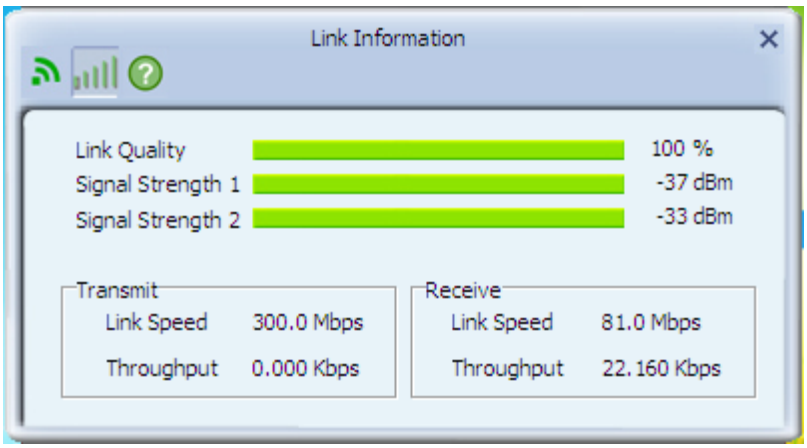
4.1.4 Link Information

Click  Link Information button from menu bar, below window will pop out.

-  **Link Status**



◆ **Throughput**



◆ **Statistics**

Statistics displays the detail counter information.

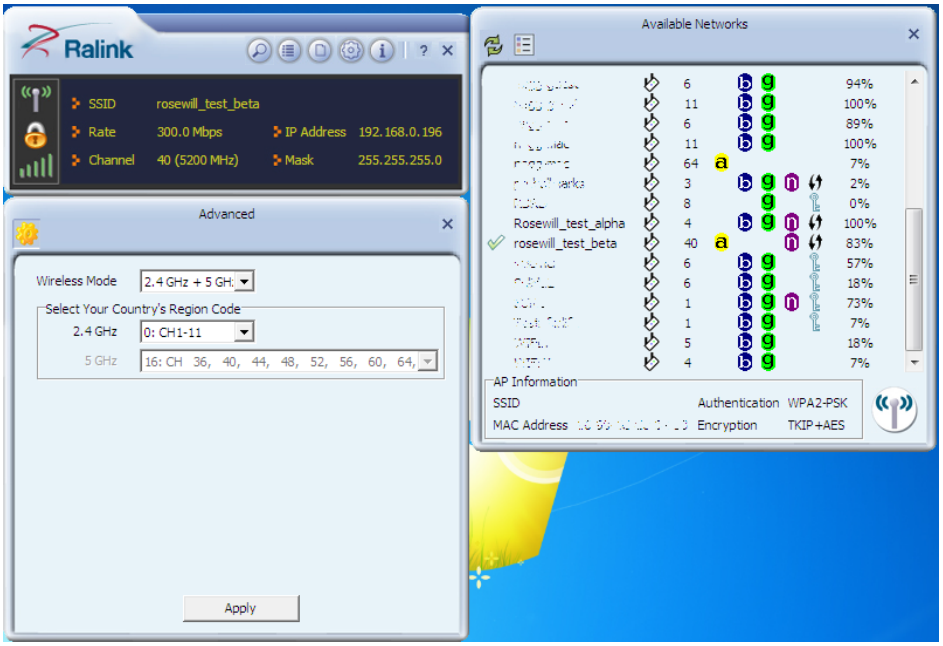
4.1.5 Advanced

Click  Advanced button for bringing out the **Advanced** function window. You will be able to adjust the wireless Mode by 2.4 GHz and/or 5 GHz and also manage the certification for some Authorization required.

◆ **Advanced**

N900UBE is a dual band wireless adapter; therefore, you can select among 3

options on 2.4GHz, 2.4GHz + 5 GHz, or 5 GHz.



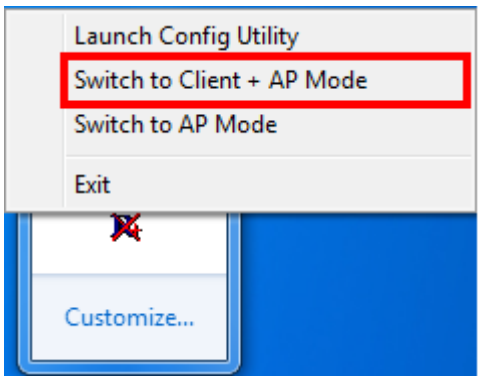
4.1.6 About

The About window tells you the details of the Firmware information.

4.2 Client + AP Mode

N900UBE can serve as a wireless adapter while as an access point to receive and transmit wireless signals at the same time which allows other wireless clients to access the network.

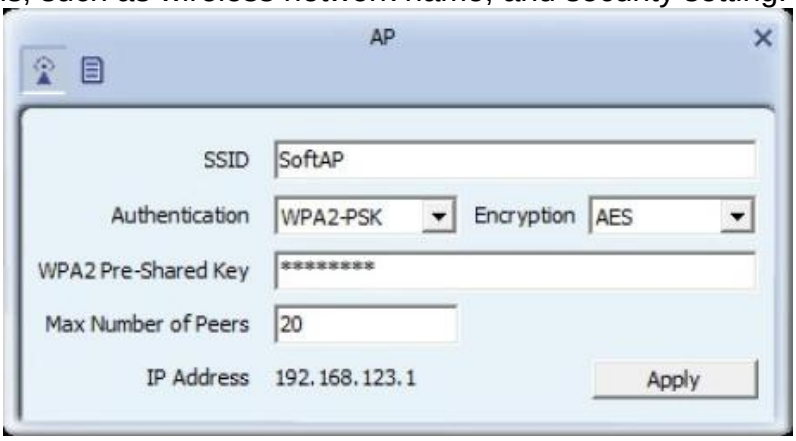
◆ Right-click the tray icon and select switch to Client + AP Mode.



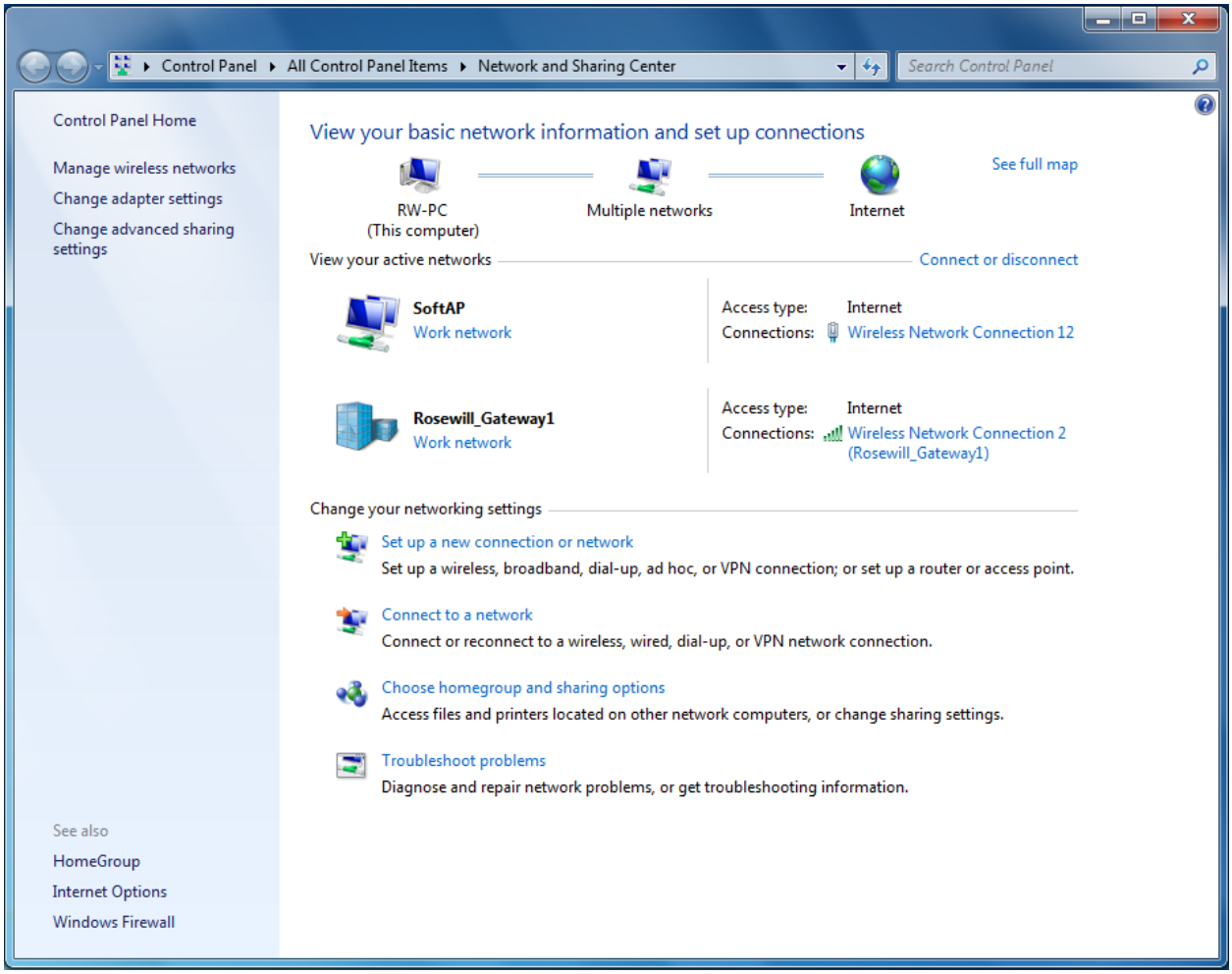
4.2.1 Configuration

You can make basic configuration under this window

1. We recommend that you connect to the wireless signal first, in order to avoid possible IP conflict. Please follow the steps in **4.1.2 Site Survey** to first connections to your desired SSID and wireless signal.
2. After connects to the wireless signal, Click on the AP button from menu bar, below window will pop out. In AP Configuration page, you can choose some basic configurations, such as wireless network name, and security setting.



3. Click **Apply** to start broadcast the SSID.
4. You should be seeing two active network as below. The **SoftAP** is the AP N900UBE broadcast.



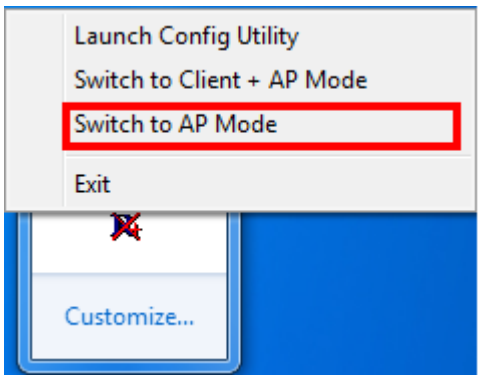
5. You can use other Wi-Fi Devices to connect to the **SoftAP**.

4.3 AP Mode

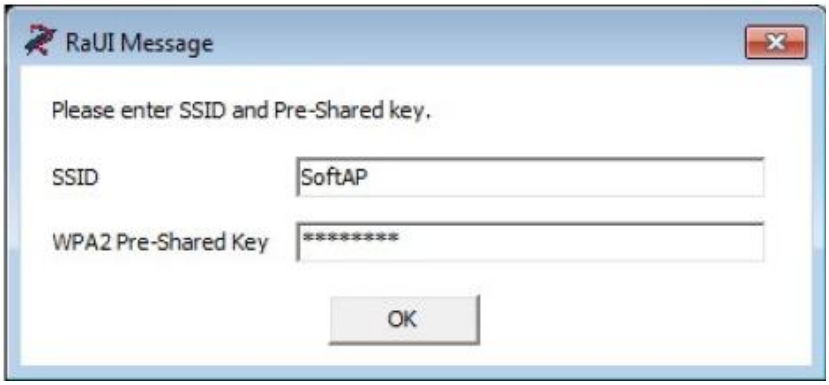
N900UBE can also serve as an access point to transmit wireless signals and create wireless network, allowing other wireless clients to access the network. This AP mode requires your PC to have an additional network card.

4.3.1 Window 7

- Right-click the tray icon and select switch to AP Mode.



- Enter a name of SSID for Soft AP and 8~63 ASCII characters for WPA2 Pre-Shared Key.



Note: ASCII characters include any numbers/letters and characters.

- AP button  will be added to menu bar of main window.

4.3.1.1 Configuration

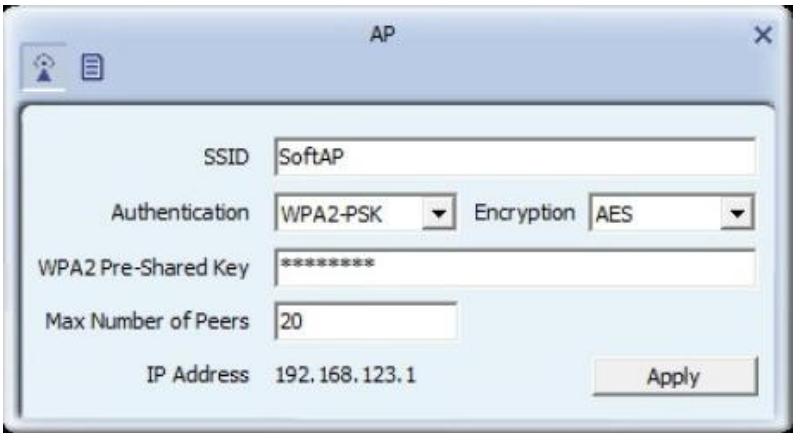
You can make basic configuration and review the MAC table under AP window

Click AP button  from menu bar, below window will pop out.

-  **AP Configuration**

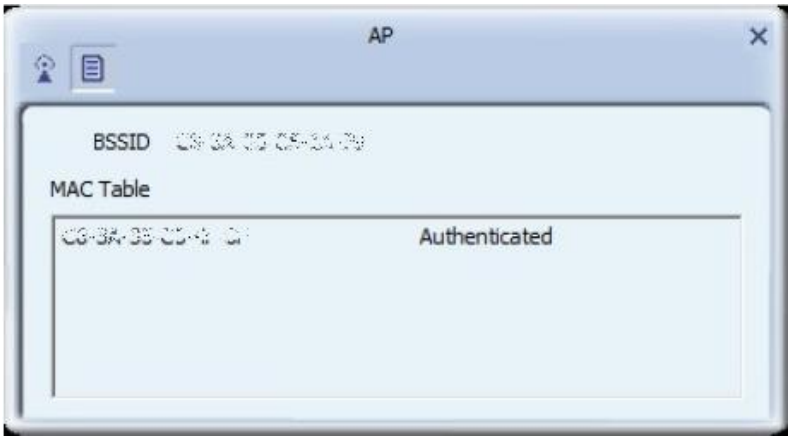
In AP Configuration page, you can make some basic configurations, such as wireless

network name, and security setting.



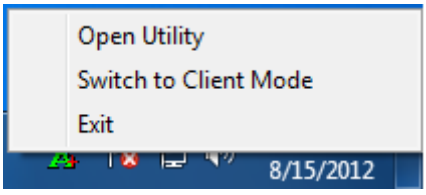
◆ **MAC Table**

MAC Table page shows the information of the wireless devices accessed to this soft AP.



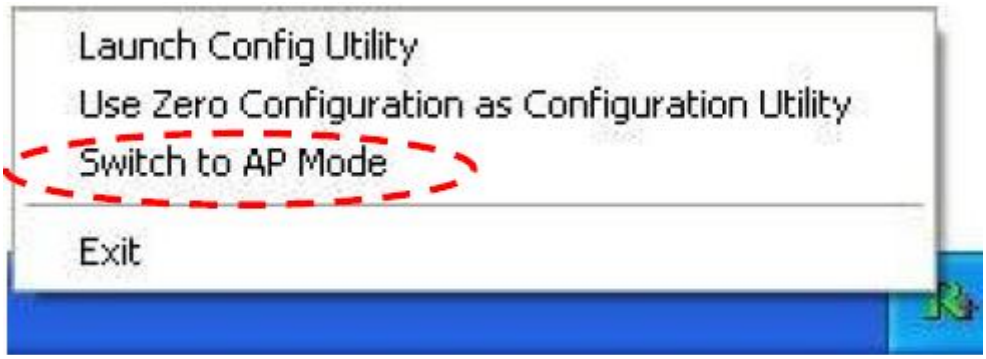
4.3.1.2 Switching to Client Mode

In AP mode, right-click the icon in the system tray and choose **Switch to Client Mode**, then N900UBE will switch to client mode with an interface as wireless client.



4.3.2 Windows XP / Vista

Right-click the tray icon and select switch to AP Mode.

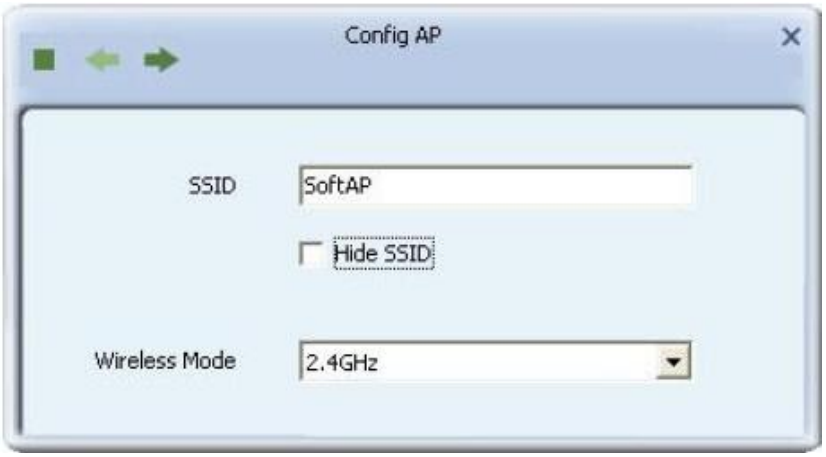


When main window pop out, select button from the menu bar for more settings.

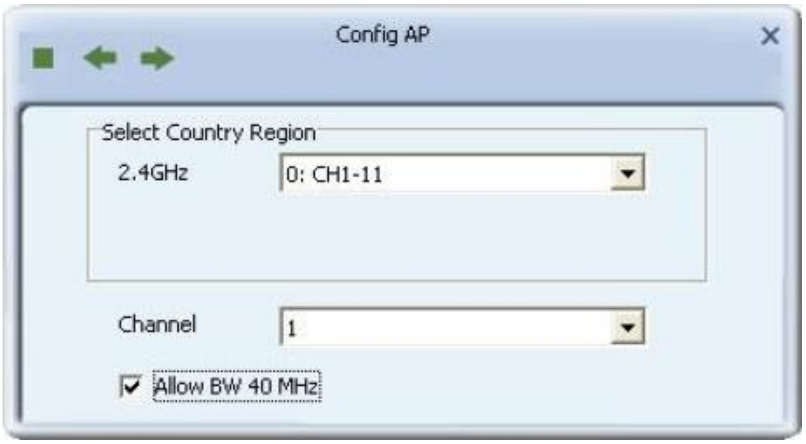
4.3.2.1 Config AP

Click  Config AP button from the above window, a setup window will popup.

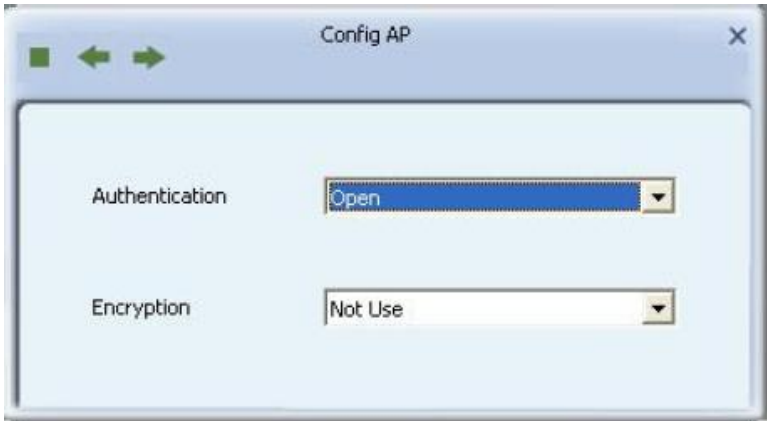
- **SSID**: Enter a name of SSID for Soft AP.



- **Channel:** Select the channel used for wireless communication from drop-down menu. Available channel numbers are 1 to 11 for USA, 1 to 13 for European countries.

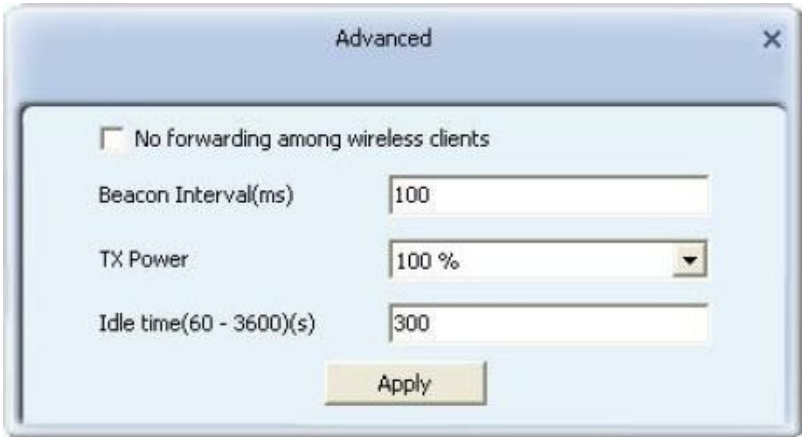


- **Authentication:** Open, Shared, WPA-PSK, WPA2-PSK, and WPA-PSK/WPA2-PSK



4.3.2.2 Advanced

Click  Advanced button from menu bar, below window will pop out.



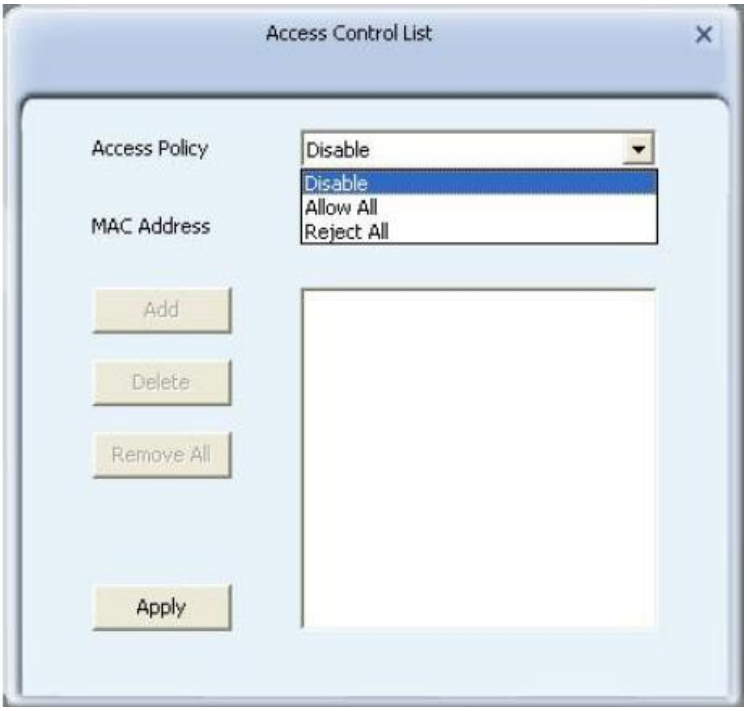
- **Beacon Interval:** Set the beacon interval of wireless radio. Do not modify default value if you don't know what it is, default value is 100.

- **TX Power:** You can set the output power of wireless radio. Unless you're using N900UBE in a really big area, you may not have to set output power to 100%. This will enhance security (malicious / unknown users in distance will not be able to reach your N900UBE).

4.3.2.3 Access Control List

Access control includes **Allow All** and **Reject All**. After editing the MAC address access list, only the MAC in the Allow All list could access the Soft AP.

Click  Access Control List button from menu bar, below window will pop out.



4.3.2.4 Associate List

Associate List page shows the information of the wireless devices accessed to this soft AP.

Click  Associate List button from menu bar, below window will pop out.


Associate List
MAC Address
AID
Power Saving Mode
Status
1
No
N: MCS = 7, BW =

FAQ

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

Scenario	Solution
I can't find any wireless access point / wireless device in 'Site Survey' function.	1. Click 'Rescan' for few more times and see if you can find any wireless access point or wireless device. 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 click 'Launch config utilities'	1. Please make sure the wireless network card is inserted into your computer's USB port. If the Realtek configuration utility's icon is black, the network card is not detected by your computer. 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 connection with a certain wireless access point	1. Click 'Connect' for few more times. 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 'About' tab and write the value of 'Phy_Addess' down, then present this value to the owner of access point so he / she can add the MAC address of your network card to his / her access point's list.
The network is slow / having problem when transferring large files	1. Move closer to the place where access point is located. 2. Enable 'Wireless Protection' in 'Advanced' tab. 3. Try a lower TX Rate in 'Advanced' tab. 4. Disable 'Tx Burst' in 'Advanced' tab. 5. Enable 'WMM' in 'QoS' tab if you need to use multimedia / telephony related applications. 6. Disable 'WMM – Power Save Enable' in 'QoS' tab. 7. There could be too much people using the same radio channel. Ask the owner of the access point to change the channel number. Please try one or more solutions listed above.

Thank you for purchasing a quality Rosewill Product.
Please register your product at: www.rosewill.com for complete warranty information and future support for your product.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC Caution

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

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

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

Federal Communication Commission (FCC) Radiation Exposure Statement

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

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

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE)
The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

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

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, Spain, Sweden, and the United Kingdom.
The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not intended for use

None.

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.