

Wireless N Dual Band Adapter RNX-N600UBE

User Manual

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to pro-vide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not in-stalled 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: • Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/ TV technician for help.
- 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.

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 user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. "To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

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.

National Restrictions

2400.0-2483.5 MHz

Country	Restriction	Reason/remark
Bulgaria		General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW EIRP. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy		If used outside of own premises, general authorization is required
Luxembourg		General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation		Only for indoor applications

Note: Please don't use the product outdoors in France.

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Chapter 1 Overview

Thank you for choosing Rosewill's 802.11n Wireless Dual Band USB adapter – RNX-N600UBE. This chapter is to introduce you more about this Wireless Adapter.

1.1 Package Content

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

- 1. Rosewill RNX-N600UBE 802.11n Wireless Dual Band USB Adapter x 1
- 2. Quick Installation Guide x 1
- 3. USB Cable x1
- 4. Resource CD x 1, including:
 - Wireless Utility and Driver
 - User Manual

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

With the 802.11n 2T2R MIMO technology, the RNX-N600UBE allows high packet throughput rate up to 300Mbps maximum download and upload. It can also interoperate with other wireless (802.11b, 802.11g, 802.11a) standard and support dual frequency at 2.4GHz and 5GHZ. The adapter supports 64/128/152 bit WEP, WPA and WPA2 encryptions to prevent outside intrusion and protect your personal information from being exposed.

The adapter is easy to install and manage. The Manual guides you step-by-step through the installation process; With unmatched wireless performance, reception, and security protection, the RNX-N600UBE is the best choice for easily adding or upgrading wireless connectivity to your notebook and computer.

1.3 Features

- Complies with IEEE 802.11n and 802.11a/b/g standard for 2.4GHz/5GHz Wireless LAN
- 2T2R up to 300 Mbps upload and download Transfer Rate in 802.11n mode of operation
- High level of security with Wireless encryption of 64/128-bit WEP, WPA, WPA2, and Cisco CCX V5 Compliance.
- Runs under most operating systems: Windows 2K/XP/Vista/7 (32/64 bits), Mac OSX 10.4~10.6 and Linux 2.6.x.

- Supports One-Click button WPS (WiFi Protected Setup) connection.
- Supports MIMO Power Saving which reduce power under idle time

.4 Product Specifi	cation
Chipset	Ralink RT3572
Standard	IEEE 802.11a/b/g/n
Modulation Type	OFDM/CCK/16-QAM/64-QAM
Bus Type	USB Interface (Mini 5pin)
Frequency Band	2.4GHz / 5GHz DUAL
	11n: 300/150/108/81/54/27 Mbps
	11b: 1,2,5.5,11 Mbps
	11g: 6,9,12,24,36,48,54 Mbps,
	135/121.5/108/81/54/40.5/27/13.5Mbps,
Data Rate	130/117/104/78/52/39/26/13 Mbps,
Dala Rale	65/58.5/52/39/26/19.5/13/6.5 Mbps
	11a: 6,9,12,24,36,48,54 Mbps,
	135/121.5/108/81/54/40.5/27/13.5Mbps,
	130/117/104/78/52/39/26/13 Mbps,
	65/58.5/52/39/26/19.5/13/6.5 Mbps
Output Dowor	2.4GHz band: 20dBm Max
Output Power	5GHz band: 16 dBm Max
	300M: -68 dBm@10% PER
	150M: -68 dBm@10% PER
	130M: -68 dBm@10% PER
Dessive Consitivity	108M: -68 dBm@10% PER
Receive Sensitivity	54M: -68 dBm@10% PER
	11M: -85 dBm@ 8% PER
	6M: -88 dBm@10% PER
	1M: -90 dBm@8% PER
Coourity	64/128/152 bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK
Security	(TKIP/AES); WPS button; Cisco CCX5.0
Antenna	2x External 4dBi Antenna (SMA Connector)
	Windows 200; Windows XP/Vista/7 32 and 64 bit; Linux Kernel
OS support	2.6.x; Mac OS X 10.4, 10.5, and 10.6
Dimension	3.54" x 2.16" x 0.47" (90 x 55 x 12 mm)
Temperature	Operating: 32~104°F (0~40°C); Storage: -40~158°F (-40~70°C)
	Operating: 10~90% (Non-Condensing); Storage: Max. 95%
Humidity	(Non-Condensing)

1.4 Product Specification

1.5 System Requirement

You must have at least the following

- A laptop computer/desktop PC with an available USB port
- At least a 300MHz processor and 32MB of memory
- Windows OS for Win98SE, ME, 2000, XP, Vista, 7 or Mac OS X 10.4~10.6
- A CD-ROM Drive
- USB controller properly installed and working in the computer
- 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 Indications	Status	Working Status
	Blink blue	The Adapter is Radio on
Radio/ACT	Blink blue and flashing intermittently	The Adapter is already connected but is not transmitting or receiving data
LED	Blink blue and fast flashing	The Adapter is activity and transmitting of receiving data.
	Off	The Adapter is Radio off

Chapter 2 Installation Guide

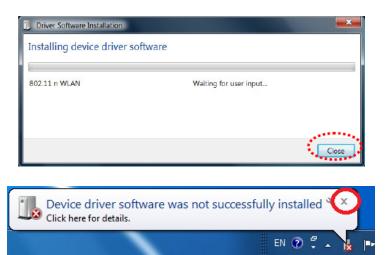
- 2.1 Hardware Installation
- Please first connect the RNX-N600UBE with the USB cable, then insert into your PC or NB USB slot.



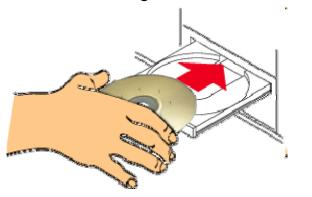
- If the following window popup, please click Cancel or Close:
 - Under Win XP



Under Windows Vista/Win7



2.2 Installing Drivers and/or Utility :



Please insert the CD into your CD-rom drive

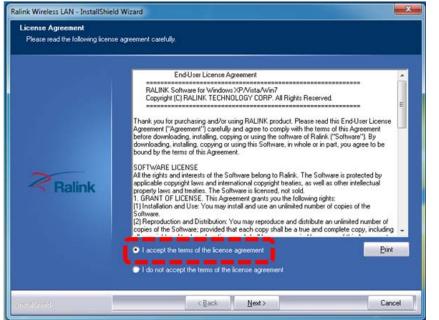


Click on the "**Driver Installation**" option when the Smart Wizard page popup.

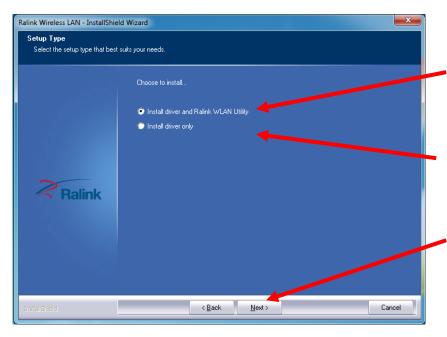
nize	RNX-MiniN2 (2-23)	•					- 47	Search RNX+MiniN1 (2+23))
	 Include in library 	Share with 🔻	Burn Ne	ew folder)II •		0
Fas	Name		Date modifie	d	Туре	Size				
	38_92_CU_Driver		2/18/2011 4:1	8 PM	File folder					
Lib	DATA		2/18/2011 4:1		File folder					
0	EAP		2/18/2011 4:1	8 PM	File folder					
N (im 🔐		2/18/2011 4:1	8 PM	File folder					
P	Release notes		2/18/2011 4:1	8 PM	File folder					
v	🔤 Setup				ation	391 KB				
	layout.bin		1/11/2011 1:3		BIN File	1 KB				
Ho	a kConfig				Configuration sett	13 KB				
Co	ISLangUni		9/6/2010 6:15		Configuration sett	55 KB				
1	 Setup _Setup 		2/25/2011 7:4 5/10/2008 1:2		Configuration sett DLL File	1 KB 326 KB				
F	ISSetup		9/11/2008 1:2		DLL File	543 KR				
	data1.hdr		1/11/2010 0:2		HDR File	66 KB				
i.	B setup		2/16/2011 5:2		kon	6 KB				
i.	setup.inx		12/30/2010 4:			316 KB				
F.	setup.iss		2/22/2011 4:3		ISS File	1 KB				
	Uninstall.iss		12/17/2009 4	25 PM	ISS File	1 KB				
١e	就 Favorites - Shortcut		2/28/2011 8:5	8 AM	Shortcut	1 KB				
	🚳 Install		1/7/2010 2:35	PM	Windows Batch File	1 KB				
	🚳 UnInstall		1/7/2010 2:35		Windows Batch File	1 KB				
	📜 data1		1/11/2011 1:3 1/11/2011 1:3		WinRAR, WinRAR	3,947 KB 17,740 KB				
ι	Jser Account	Control								1
	👌 Do yo					llowing	l pro	gram to m	ake	
	👌 Do yo	u want	n nam publi	imp ie: sher	11n USE Rosew	3 Wireless			ake	
	👌 Do yo	u want es to th Prograr Verified Prograr	n nam publi n loca	mp e: sher tion	11n USE Rosew	3 Wiseless ill Inc.	LAN So	Atware	ake	
	👌 Do yo	u want es to th Prograr Verified Prograr <u>Show ir</u>	n nam publi n loca	mp e: sher tion	11n USE Rosew	3 Wiseless ill Inc.	LAN So	Atware ertificate	ake	

If the program didn't run automatically, please select **Browse CD**, and then double click on the **Setup.exe** in the CD to start the process.

Click **Yes** if the following window popup



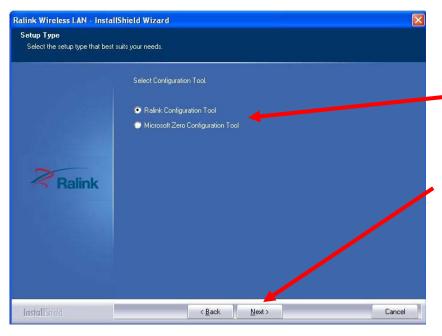
Upon Clicking Yes, you should see a "License Agreement" window popup. Please select "I accept the terms of the license agreement" then click "Next>"



On the next window, you will have the option of "Install driver and Ralink WLAN Utility" or "Install Driver only"

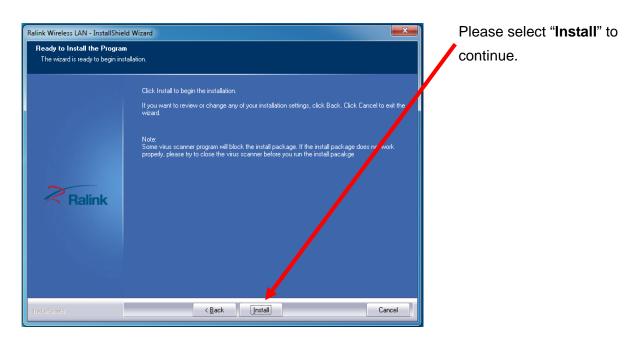
Win7 users are recommended to select "Install Driver only"

Please select "**Next >**" after your selection to continue the installation process.



When Install under Window XP, you may see this selection window, you can select among "Ralink Configuration Tool" or "Microsoft Zero Configuration Tool"

Once select, please click "**Next** >" to continue.



< <u>B</u>ack Finish

Ralink Wireless LAN - InstallShie	ld Wizard	
Setup Status		
	The InstallShield Wizard is installing Ralink Wireless LAN	
Ralink	Installing	
Instalishield	Cancel	
	Installing device driver software 🔌 🗙 Click here for status.	During t you may lower rig you the
Ralink Wireless LAN - InstallShie	ld Wizard	Click "Fi installati
Ralink	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Ralink Wireless LAN. Click Finish to exit th wizard.	

Setup wizard will process.

During the Installation process, you may see this popup on your lower right hand corner showing you the installation status.

Click "**Finish**" to complete the nstallation process

Cancel

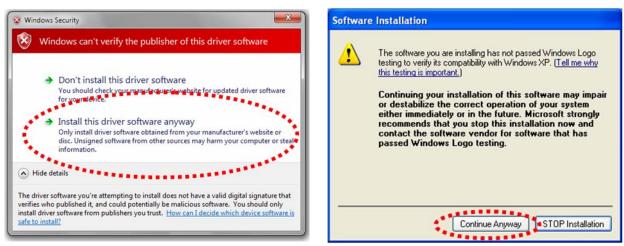


When complete, this window at the lower right hand corner will pop up, thus complete the driver installation.

if you see below window popup, please select **install this driver software anyway**.

Win7

Win XP



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).

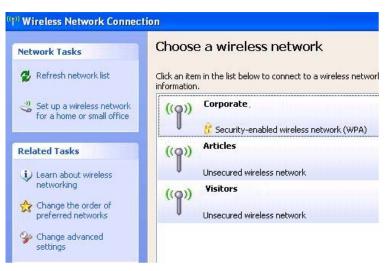
In the following instruction for making a network connection, we use the provided Utility to configure your wireless network settings.

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.

Wireless Network Cor	nnection	
	ess Acc' requires a network key (also called a WEP key or W s prevent unknown intruders from connecting to this networ	
Type the key, and then cli	ick Connect.	
Type the key, and then cli Network key:	ick Connect.	

Choose a wireless network

Click an item in the list below to connect to a wireless network in range or to get more information.

((Q))	Corporate .	Connected 姈
U	😚 Security-enabled wireless network (WPA)	
((0))	Articles	
U	Unsecured wireless network	
((0))	Visitors	
	Unsecured wireless network	

3.2 Connecting with Window 7

You can easily access to wireless with 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.

Not connected	* *
Wireless Network Connection 2	^
dlink	all
dlink123	.all
andy	.ell
PoHOME523	.all
Other Network	.all
Open Network and Sharing Cente	er

Select your desired SSID, then Click "Connect".

Not connected	47
Connections are available	
Wireless Network Connection 2	^
dlink123	all
andy	all
Rosewill_Wireless_Signal	llte
Connect automatically <u>C</u> on	nect
dlink	.all
Ruckus	.41
Wireless_DF21E0	3 1
Open Network and Sharing Cente	r

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

Connect to a Netwo	ork	×
Type the networ	k security key	
Security key:		
\rightarrow	Hide characters	
	You can also connect by pushing t e button on the router.	
	ОК	Cancel

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

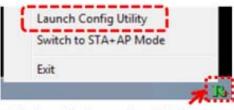


If this is your first time connect, you will see a window show up and ask you for setting up Network Location. Please select the location based on your internet useage.



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.



Right Click on the "R" logo

IP Address

5 Mask

Ralink

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SSID

10:027

sci -guest

tasup-r.m

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nege -----

prohallmarks

AP Information

SSID

Ralink	<u>م و ا م م ا ، ×</u>
"" ssid	
💣 🕽 Rate	> IP Address
Channel	Mask

2 E

0657). 11 (2165) 18 (21....)25 Available Networks

100%

0% 47% 23%

0

100%

89%

7%

100%

83%

2%

73%

しししゃい

This is the startup window of the Ralink Wireless Utility

Here	IS	each	button	s func	tion:

(2)	Wi-Fi Direct
	(will appear only if your computer can support this function)
\bigcirc	Site Survey
	Link Information
	Profile
0	Advanced
i	<u>About</u>

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

When first click on (20), a window will popup and presents to you the nearby Wi-Fi Signals.

One time connect:

Please first highlight your desired

SSID, then click ⁽¹⁾. Then follow the popup window's direction to connect. (Please refers hereh for detail)

Setup the Profile for all future connect:

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

Available Networks ×	×	×	E 94%	1 9 94% 9 9 9 9 9 9 9 9 100% 9 9 9 100% 9 0% 100% 9 10% 100% 9 10% 100% 9 10% 10 23% 10 9 100%			1999 1995	1 1 1 4 1 1 5 1 1 5 1 1 5 1 1 64 1 1 5 1 1 64 1 1 5 1 1 64 1 1 5 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 10 1 64 1 1 64 1 1 64 1 1 64 1 1 64 1 1 64 1 1 64 1 1 64	
						Available M	letworks		×
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Imperation Imperation <td>non 10 19 23%</td> <td>777 1 1 9 1 100% E</td> <td>err 🤌 11 🚺 💁 🦹 83% 🗍</td> <td></td> <td>2977</td> <td>1 11</td> <td>6 9 6 9</td> <td>83%</td> <td></td>	non 10 19 23%	777 1 1 9 1 100% E	err 🤌 11 🚺 💁 🦹 83% 🗍		2977	1 11	6 9 6 9	83%	

1

11

64 **a**

1

11

10

MAC Address Colocitie Colocities Encryption

Б

b

 \mathbf{b}

Authentication WPA2-PSK

64 a

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

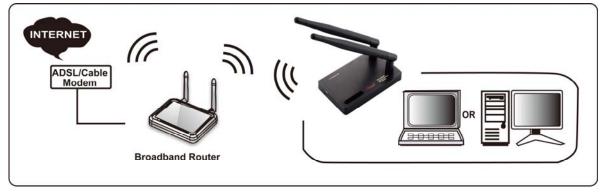
TKIP + AES

04)

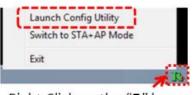
Chapter 4 Ralink Utility Configuration

4.1 Station Mode

Station Mode is the default access mode for RNX-N600UBE. RNX-N600UBE serves as a client to receive the wireless signal for connecting to the internet.



You can find this icon start 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**.



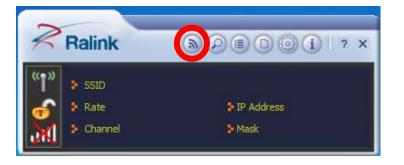
Right Click on the "R" logo

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



4.1.1 Site Survey

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



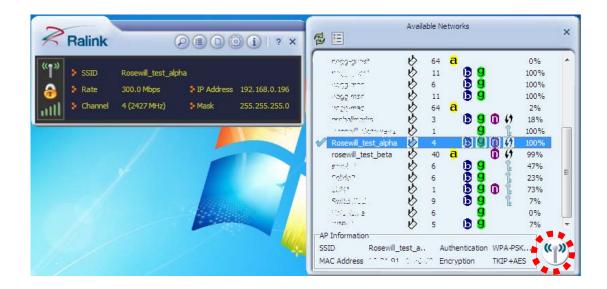
Click on Site Survey button if from menu bar, the information window will pop out.

	Ø	1			9		8	94%	
	♦	9		Б	9		2	100%	
1915:12	V	2		Б	g		1	0%	
S.S. UST	V	6		000000	9	0	6	47%	
· \$5x0-2025	4	10		6				23%	
17293	V	1		6	g		1	100%	E
75 9 7	3	11		6	g		สาวอาณา	83%	
OFTING	V	64	a				°L	2%	
and grant	V	1		D	9			100%	
tragg clares	B	11		6	9			89%	
7-regrigazisti	ø	64	a	-				7%	14
12:00 -480	B	1		6	9			100%	
10000 1430	V	11		6	g			83%	
2000 (20 SARC	6	64	a					2%	
psycholizaarhe	6	10		6	g	0	49	73%	-
AP Information	1976)				100.0	1111	2,9,10		

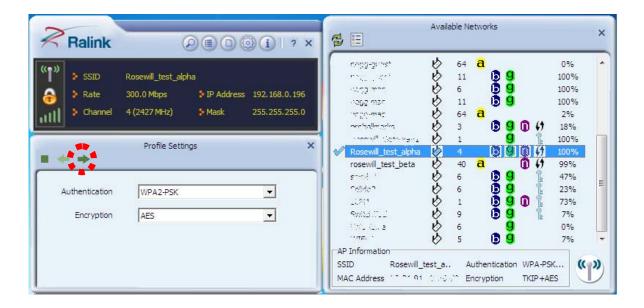
- Rescan: to update and refresh surrounding wireless networks
- Profile: to jump to profile list window
 - Connect: select one wireless network and click this button to connect it

4.1.1.1 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.

Ralink		? × 🔁 🗉	Available Networks	×
SSID Ro Rate 30	Disewill_test_alpha 10.0 Mbps IP Address 192, 168. (2427 MHz) Mask 255, 255. Profile Settings	196 55.0 X Rosewill test ain rosewill test beta smed 1 rosewill test beta smed 1 rosewill test beta SID Rosewill	ha 🖄 4 🖸 🖸 🚺 🗍	100% 99% 47% 23% 73% 7% 0% 7% ▼ PSK

4.1.2 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 w	/ill 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
- ♦ Ø Add WPS Profile: to configure WPS settings
- Activate: to make an existing profile become active and to connect

4.1.2.1 Add / Edit Profile

Profile Name	PROF1
SSID	Wireless_N
Network Type	Infrastructure - Connect to AP

- **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.

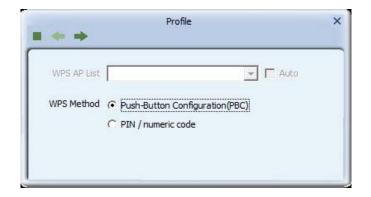
Authentication	Open	-
Encryption	None	•

- Authentication: Open, Shared, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1x, CCKM, WAPI-PSK, WAPI-CA
- Encryption: None, WEP, TKIP, AES, SMS4

4.1.2.2 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 RNX-N600UBE and other wireless device



- PIN/numeric code: Enter 8 digit numbers Pin code to automatically connect RNX-N600UBE with wireless devices around.
 - 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.

Pin Code	ETATION	Renew
Config Mode	Enrollee	▼ WPS Profile
	Enrollee Registrar	

- **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	Wireless_N_WPS	
BSSID	00-23-F8-08-11-26	
Authentication	WPA2-PSK	•
Encryption	AES	-

- **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.
- 4.1.3 Link Information



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

Link Status

ull 🕜	Link Information	
Status	Rosewill_test_alpha <> 0 21 11 20 10 75	
Extra Info	Link is Up [Tx Power: 100%]	
Authentication	WPA2-PSK	
Encryption	AES	
Network Type	Infrastructure	
Central Channel	6	

Throughput

ull 🕜	Link Info	rmation	
Link Quality			100 %
Signal Strength 1			-37 dBm
Signal Strength 2			-33 dBm
Signal Strength 2 Transmit		Receive	-33 dBn
CEO 270	300.0 Mbps	Receive Link Speed	-33 dBm 81.0 Mbps

Statistics

Statistics displays the detail counter information.



4.1.4 Advanced

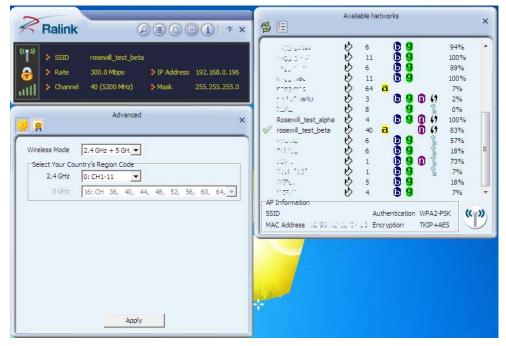
Click Advanced button for bringing out the **Advanced** function window. You will be able to adjust the wireless Mode by 2.4 GHz and/or 5 GHz and also

manage the certification for some Authorization required.



Advanced

RNX-N600UBE is a dual band wireless adapter; therefore, you can select among 3 options on 2.4GHz, 2.4GHz + 5 GHz, or 5 GHz.



٠	9	Certification Management
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Install Certificate			
User certificate			
Issuer certificate			
		+2	
		Ì	
Certificate Details			
Issuer	Version		
Subject	Туре		
Man and Mar			

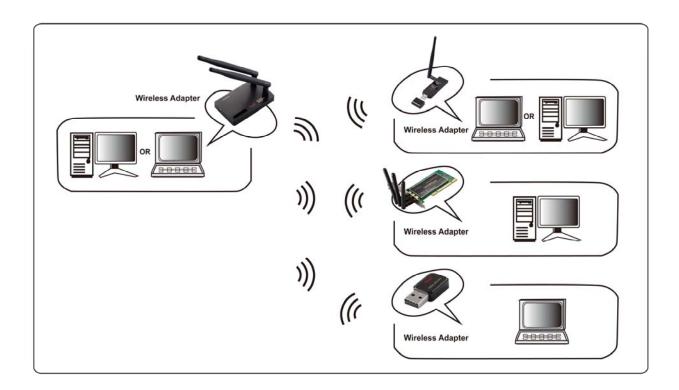
4.1.5 About

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



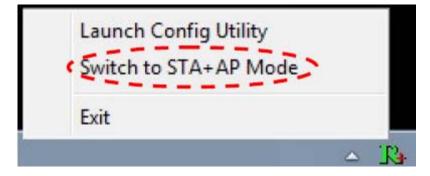
4.2 AP Mode

RNX_N600UBE can also serve as an access point to transmit wireless signals and create wireless network, allowing other wireless clients to access the network.



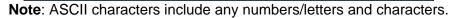
4.2.1 Window 7

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



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

Please enter SSID and P	re-Shared key.	
SSID	SoftAP	1
WPA2 Pre-Shared Key	******	



• RNX-N600UBE will automatically create a virtual adapter in your computer.

WAN Adapter Name:	802.11n USB Wireless LAN Card	•	
LAN Adapter Name:	Microsoft Virtual WiFi Miniport Adapter		
	οκ		

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



4.2.1.1 Configuration

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

2	Ralink	0	9000)() ? ×
" 1 "	SSID	Wireless_N		
a	🔰 Rate	54.0 Mbps	IP Address	192.168.0.101
all	Channel	1 (2412 MHz)	Mask	255.255.255.0

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



In AP Configuration page, you can make some basic configurations, such as wireless network name, and security setting.

8	AP			
SSID	SoftAP			
Authentication	WPA2-PSK	Encryption	AES	
WPA2 Pre-Shared Key	******			
Max Number of Peers	20			
IP Address	192.168.123.1		Apply	

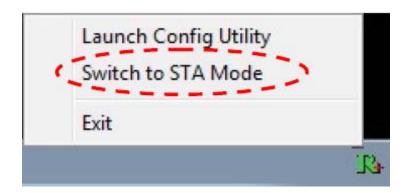
♦ I MAC Table

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

BSSID	CS-38 25 05-14-79		
MAC Table			
C3-34-35-C	2-4-2-	Authenticated	

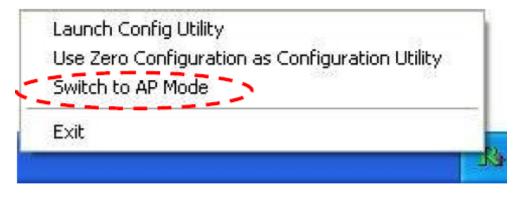
4.2.1.2 Switching to Working Station Mode

In STA+AP mode, right-click the icon in the system tray and choose Switch to STA Mode, then RNX-N600UBE is switching to working station mode with an interface of working station.



4.2.2 Windows 2000 / XP / Vista

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



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



4.2.2.1 Config AP

2	Ralink	G)@) 😨) (a) (i) ? ×
" 1 "	SSID	SoftAP			
6	Mode	2,4GHz	191	IP	169.254.126.187
4	Channel	1 (2412 MHz)	8	Mask	255,255,0,0

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

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

+ +	Config AP	
SSID	SoftAP	
	Hide SSID	
Wireless Mode	2.4GHz	•

 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.

elect Country	y Region	
2.4GHz	0: CH1-11	•

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

Authentication	Open	•
Encryption	Not Use	•

4.2.2.2 Advanced

2	Ralink		C) 🤊) () () ? ×
" I "	SSID	SoftAP			
6	8 Mode	2.4GHz	۶	IP	169.254,126,187
<u> </u>	Channel	1 (2412 MHz)	8	Mask	255.255.0.0

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

No forwarding among v	wireless clients
Beacon Interval(ms)	100
TX Power	100 %
Idle time(60 - 3600)(s)	300

- 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 RNX-N600UBE 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 RNX-N600UBE).

4.2.2.3 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.

Access Policy	Disable Disable	-
MAC Address	Allow All Reject All	
Add	[
Delete		
Remove All		

4.2.2.4 Associate List

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

2	Ralink	😮 💿 🖓 🚺 🚺 ? ×				
" I "	SSID	SoftAP				
6	Mode	2.4GHz	2	IP	169.254.126.187	
4	Channel	1 (2412 MHz)	8	Mask	255.255.0.0	

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

Associate List X					
AID	Power Saving Mode	Status			
1	No	N: MCS = 7, BW =			
		3			
	AID	AID Power Saving Mode 1 No			

FAQ

This chapter provides solutions to problems that may occur during the installation and operation of the Wireless Dual Band USB Adapter. Read the descriptions below to solve your problems.

1. The Wireless Dual Band USB Adapter does not work properly.

Reinsert the Wireless Dual Band USB Adapter into your PC's USB slot. Right click My Computer and select Properties. Select the device manager and click on the Network Adapter. You will find the Adapter if it is installed successfully. If you see the yellow exclamation mark, the resources are conflicting. You will see the status of the Adapter. If there is a yellow question mark, please check the following:

Make sure that you have inserted the right adapter and installed the proper driver. If the Adapter does not function after attempting the above steps, remove the adapter and do the following:

Uninstall the driver software from your PC through Control Panel's "Add or Remove Programs".

Restart your PC and repeat the hardware and software installation as specified in this User Guide.

2. I cannot communicate with the other computers linked via Ethernet in the

Infrastructure configuration.

Make sure that the PC to which the Adapter is associated is powered on.

Make sure that your Adapter is configured on the same channel and with the same security options as with the other computers in the Infrastructure configuration.

3. What should I do when the computer with the Adapter installed is unable to

connect to the wireless network and/or the Internet?

Check that the LED indicators for the broadband modem are indicating normal activity. If not,

there may be a problem with the broadband connection.

Check that the LED indicators on the wireless router are functioning properly. If not, check that the AC power and Ethernet cables are firmly connected.

Check that the IP address, subnet mask, gateway, and DNS settings are correctly entered for the network.

In Infrastructure mode, make sure the same Service Set Identifier (SSID) is specified on the settings for the wireless clients and access points.

In Ad-Hoc mode, both wireless clients will need to have the same SSID. Please note that it might be necessary to set up one client to establish a BSS (Basic Service Set) and wait briefly before setting up other clients. This prevents several clients from trying to establish a BSS at the same time, which can result in multiple singular BSSs being established, rather than a single BSS with multiple clients associated to it.

Check that the Network Connection for the wireless client is configured properly.

If Security is enabled, make sure that the correct encryption keys are entered on both the Adapter and the access point.

4. I can't find any wireless access point / wireless device in 'Site Survey' function.

- Click 'Rescan' for few more times and see if you can find any wireless access point or wireless device.
- 2. Please move closer to any known wireless access point.
- 'Ad hoc' function must be enabled for the wireless device you wish to establish a direct wireless link.
- 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.

5. Nothing happens when I click 'Open Config Utility'

- 1. Please make sure the wireless network card is inserted into your computer's USB port.
- 2. Reboot the computer and try again.
- 3. Remove the card and insert it into another USB port.
- 4. Remove the driver and re-install.
- 5. Contact the dealer of purchase for help.

6. I can not establish connection with a certain wireless access point

- 1. Click 'Add to Profile' for few more times.
- 2. If the SSID of access point you wish to connect is hidden (nothing displayed in
- 3. '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.
- 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.
- 5. The access point you wish to connect only allows network cards with specific MAC address to establish connection. Please go to 'Status' menu and write the value of 'MAC Address' down, then present this value to the owner of access point so he / she can add the MAC address of your network card to his / her access point's list.

7. The network is slow / having problem when transferring large files

- 1. Move closer to the place where access point is located.
- 2. There could be too much people using the same radio channel. Ask the owner of the access point to change the channel number.

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.