

# Wireless N Band Adapter RWND-N1501UB / RWND-N1502UBE

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.

#### **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 USB adapter – RWND-N1501UB / RWND-N1502UBE. 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 RWND-N1501UB / RWND-N1502UBE 802.11n Wireless USB Adapter x 1
- 2. Resource CD x 1, including:
  - Wireless Utility and Driver
  - User Manual
  - Quick Installation Guide

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 1T1R technology, the RWND-N1501UB / RWND-N1502UBE allows high packet throughput rate up to 150Mbps maximum download and upload. It can also interoperate with other wireless (802.11b and 802.11g) standards. The adapter supports 64/128 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.

## 1.3 Features

- Minimized form factor design
- Comply with b/g/n standards.
- Support the most popular OS: Win 2K/XP/Vista/7; Linux Kernel 2.6.x; Mac OS 10.5/10.6/10.7
- Supports USB 2.0 interface.
- QoS: WMM & WMM-PS support.
- Low Power usage with Advanced Power Management

# 1.4 Product Specification

Chipset	Ralink RT5370
Standard	IEEE 802.11b/g/n
Bus Type	USB 2.0/1.1 Interface
Frequency Band	2.4GHz ISM (Industrial Scientific Medical Band)
Data Rate	11b: 1/2/5.5/11Mbps;
	11g: 6/9/12/24/36/48/54Mbps
	11n: up to 150Mbps
Output Power	11n:13dBm+/-1.5dBm
	11g:13dBm+/-1.5dBm
	11b:13.5dBm+/-1.5dBm
Security	WEP 64/128, WPA, WPA-PSK, WPA2, WPA2-PSK,
	TKIP/AES
OS support	Windows 2K/XP/Vista/7 (32/64bit); Linux Kernel 2.4 and
	2.6 series; Mac OS 10.5/10.6/10.7
Temperature	Operating: 32 ~ 104°F (0~40°C); Storage: -4 ~ 167°F
	(-20~75°C)
Humidity	Operating: 10% ~ 90% (Non-Condensing); Storage: 5% ~
	95% (Non-Condensing)

# 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 Win2000, XP, Vista, 7; Mac OS X 10.5~10.6; or Linux OS under Kernel 2.4 and 2.6 series
- A CD-ROM Drive
- USB controller properly installed and working in the computer

# **Chapter 2 Installation Guide**

- 2.1 Hardware Installation
- Please first connect the RWND-N1501UB / RWND-N1502UBE with the USB cable, then insert into the USB slot of your PC or NB.
- 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

Organize 🔹 🛛 I	include in library 🔻 Share with 👻 New folder	833	- 🔳 (
🔆 Favorites	Name	Date modified	Туре
	\mu um_qig	5/7/2012 4:24 PM	File folder
詞 Libraries	RNWD-N1501UB_RNWD-N1502UBE_Linux_OS_software_2	5/7/2012 1:55 PM	BZ2 File
	RNWD-N1501UB_RNWD-N1502UBE_MAC_OS_software_4	5/7/2012 1:57 PM	DMG File
🖳 Computer	RNWD-N1501UB_RNWD-N1502UBE_Win_OS_software_3.2	5/7/2012 1:53 PM	Application
🗣 Network			
	۲ ( ۱۱۱ ۱۱۱		

Click on the Driver for Windows OS in the CD to install driver and utility for Windows

Open File	- Security Warning
The pu run this	blisher could not be verified. Are you sure you want to software?
	Name:RNWD-N1502UBE_Win_OS_software_3.2.4.0.exe Publisher: <b>Unknown Publisher</b> Type: Application From: C:\Users\Rosewill\Desktop\RNWD-N1501UB_RN
🔽 Alwa	Run Cancel
8	This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust. How can I decide what software to run?

Click **Run** 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"
- For other Windows OS customer, please feel free to select "Install driver and Ralink WLAN Utility"

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.



Ralink Wireless LAN - InstallShield	Wizard
Setup Status	
	The InstallShield Wizard is installing Ralink Wireless LAN
	Installing
Ralink	
	Carol
Instalibrield	



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 installation process

Kalink Wireless LAN - InstallShiel	d Wizard
	InstallShield Wizard Complete
Ralink	The InstallShield Wizard has successfully installed Ralink Wireless LAN. Click Finish to exit th wizard.
InstaliShield	< Back Finish 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	inection	
The network 'Rosewill Wirele key). A network key helps Type the key, and then cl	*** Acc' requires a network key (also called a WEP key or WPA prevent unknown intruders from connecting to this network. ick Connect.	
Network key:	••••••	

# Choose a wireless network

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

((0))	Corporate .	Connected ☆
	😚 Security-enabled wireless network (WPA)	
((Q))	Articles	
	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 <b>Refresh</b>	<b>*</b> *
Wireless Network Connection 2	^
dlink	al
dlink123	al
andy	
PoHOME523	all
Other Network	.11
Open Network and Sharing Center	

Select your desired SSID, then Click "Connect".

Not connected	49
Wireless Network Connection 2	
dlink123	all
andy	.all
Rosewill_Wireless_Signal	lle.
dlink	nect
Ruckus	.all
Wireless_DF21E0	<b>3</b> 1
Open Network and Sharing Center	r I

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 environment and 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.

![](_page_14_Figure_8.jpeg)

Right Click on the "R" logo

2	Ralink	
" <b>T</b> "	> SSID	20000000
6	🐉 Rate	FIP Address
Ж	Channel	Mask

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

1101010	
(2)	Wi-Fi Direct
	(will appear only if your computer can support this function)
$\bigcirc$	Site Survey
	Link Information
	Profile
0	Advanced
(i)	About

Please first start by selecting its 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 <sup>(1)</sup>. 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.

Ralink	(a) (2) (a) (a) (b) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c							
(()) setD			\$	1	9	<b>1</b>	94% 1008/	-
		integral -	Ň	2	ăğ	e e	0%	
👩 🕴 Rate	IP Address	CONT T	ň	6	ăă	៣ ភ្នំ	47%	
Channel	Mask	HIPPE SCOT	¥.	10	ă.	<b>W</b> •/	23%	
			3	1	ă q	2	100%	-
			ň	11	a a	e l	83%	=
		7000	Ň	1		n.	2%	
			Ň	11	6 9	15	100%	
		rec -quest	Ď	11	ā g		89%	
		thing another	Ď	10			7%	
		* 1 *** . <b>13</b> **	Ď	1	69		100%	
		- 109 5381	Ď	11	<b>b g</b>		83%	
		pergerana.	Ď	11			2%	
		prohallmarks	ø	10	69	1 47	73%	-
		AP Information	10		1.1700.170		1.	
		SSID		Aut	hentication	WPA2-F	SK (	())
		MAC Address (*1.4%)	2.22.04	13 Enci	ryption	TKIP+A	ES	$\mathbf{U}$
					_			_

Available Networks

	Availa	able Net	works			×
	V.		9	1	94%	
	Ø	9	69	1	100%	
199517	ø	2	69	1	0%	
CLICT.III.T	ø	6	- 🕒 🧕 (	D ()	-17 <b>0</b> /-	
14P87.2005	4	10	6		23%	
rege	v	1	69	L	100%	=
7867	0	11	69	L	83%	
٦ <mark>٥</mark> ٣	0	1		1	2%	
7 2 CV	0	11	69	10.3	100%	
rac: -guesh	ø	11	69		89%	
tim i-quest	ø	10			7%	
T ST BRE	B	1	69		100%	
igg-paat	B	11	69		83%	
196120	Ø	11			2%	
prohallmarks	Ď	10	69(	0 ()	73%	4
AP Information	•					-
SSID		Aut	hentication	WPA2-P	SK (	))
MAC Address	5 2 C C 4	Enc	ryption	TKTP+A	ES	12

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

# **Chapter 4 Ralink Utility Configuration**

## 4.1. Station Mode

Station Mode is the default access mode for RWND-N1501UB / RWND-N1502UBE. Wireless Adapter will serves as a client to receive the wireless signal for connecting to the internet.

![](_page_16_Figure_5.jpeg)

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**.

![](_page_16_Picture_7.jpeg)

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.

![](_page_16_Picture_10.jpeg)

## 4.1.1. Site Survey

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

![](_page_17_Picture_2.jpeg)

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

	\$	_1	9	2	94%	-
	Ø	9	69	î.	100%	
	B	2	69	1	0%	
diction T	B	6	69	1 47	47%	
HP85 2005	1	10	6		23%	
- Pope	v	1	69	l	100%	
2857	0	11	69	Ĩ.	83%	
1000	0	1		E	2%	
~ A (**	B	11	69		100%	
rect-guest	3	11	69		89%	
trivoji-guzet	3	10			7%	
t i gre igen	B	1	69		100%	
igg naat	v	11	69		83%	
1969 <u>9</u> 9	B	11			2%	
prohallmarks	V	10	69	1 47	73%	-
AP Information						

- 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. Connect

Once you highlighted the desired SSID, then click

![](_page_17_Picture_12.jpeg)

![](_page_18_Picture_2.jpeg)

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.

![](_page_18_Picture_4.jpeg)

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	×
WPA Preshared Key	Rosewill_test_alpha 300.0 Mbps IP Address 192.168.0.196 4 (2427 MHz) Mask 255.255.255.0 Profile Settings X	rragg-grost       11       0%         rragg-grost       11       9       100%         rragg-grost       6       9       100%         ragg-grost       6       9       100%         ragg-grost       3       9       10%         ragg-grost       3       9       10%         ragg-grost       3       9       10%         ragg-grost       3       9       13%         random state       1       2%         random state       1       9         rowstill_test_alpha       4       10%         rowstill_test_alpha       4       10%         rowstill_test_alpha       4       10%         rowstill_test_beta       1       10%         rowstill_test_alpha       4       10%         rowstill_test_beta       1       10%         rowstill_test_beta       1       10%         rowstill_test_alpha       4       10%         rowstill_test_a       6       9         rowstill_test_a       4       9         rowstill_test_a       4       9%         rowstill_test_a       4       9%         rowstill_test_a	

#### 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.

![](_page_19_Picture_5.jpeg)

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

![](_page_19_Picture_7.jpeg)

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

#### 4.1.3.1 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

#### 4.1.3.2 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 RWND-N1501UB / RWND-N1502UBE and other wireless device

WPS AP List	💽 🗖 Auto
NPS Method	Push-Button Configuration(PBC)
	O PIN / numeric code

- PIN/numeric code: Enter 8 digit numbers Pin code to automatically connect the RWND-N1501UB / RWND-N1502UBE with wireless devices around.
  - Select WPS AP from drop-down menu or check Auto checkbox to find WPS AP automatically.

![](_page_22_Picture_2.jpeg)

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

Pin Code	ETATIST	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.
- 4.1.4. Link Information

Ralink	Ø <b>()</b> () () () () () () () () () () () () ()
SSID	
af 🚯 Rate	IP Address
Channel	> Mask

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

Link Status

Dilli @	Link Information	×
Status	Rosewill_test_alpha <> 0 21112050 vs	
Extra Info	Link is Up [Tx Power: 100%]	
Authentication	WPA2-PSK	
Encryption	AES	
Network Type	Infrastructure	
Central Channel	6	
1		

- 👫 Throughput

(The data showing here will be varied due to your current environment and wireless usage).

aill 🕜	Link Info	rmation	
Link Quality Signal Strength 1			100 % -43 dBm
Transmit Link Speed	150.0 Mbps	Receive Link Speed	150.0 Mbps

Statistics

Statistics displays the detail counter information.

![](_page_24_Picture_2.jpeg)

#### 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.

![](_page_24_Picture_6.jpeg)

## Advanced

RWND-N1501UB / RWND-N1502UBE Only channels 1~11 is available in North America and courtry code selection is disable for Noth America .

![](_page_24_Picture_9.jpeg)

	Advanced	×
install Certificate		
User certificate		
Issuer certificate		
	Tes.	
		Tas
Certificate Details		
Issuer	Version	
Subject	Туре	

### 4.1.6. About

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

Ralink				i)
SSID				
🛊 Rate		31	P Address	
S Channel		> Mask		
	Abou	t		>
Version Utility	Abou 4.1.1.0	t Date	2011-05-19	>
Version Utility Driver	Abou 4.1.1.0 3.2.1.0	t Date Date	2011-05-19 2011-04-28	>
Version Utility Driver SDK	Abou 4.1.1.0 3.2.1.0 1.1.0.0	t Date Date Date	2011-05-19 2011-04-28 2011-05-04	>

# 4.2. AP Mode

RNWD-N1501UB / RNWD-N1502UBE can also serve as an access point to transmit wireless signals and create wireless network, allowing other wireless clients to access the

network. (This function will depends on if your OS can support, also requires direct link to your internet)

![](_page_26_Picture_3.jpeg)

## 4.2.1 Window 7

◆ Right-click the tray icon <sup>13</sup> and select switch to AP Mode.

![](_page_26_Picture_6.jpeg)

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

	<b>×</b>
Pre-Shared key.	
SoftAP	
*******	
ОК	
	Pre-Shared key. SoftAP ******* OK

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

 RWND-N1501UB / RWND-N1502UBE 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

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

![](_page_27_Picture_4.jpeg)

## 4.2.1.1 Configuration

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

![](_page_27_Picture_7.jpeg)

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.

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

# MAC Table

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

	AP	
BSSID CS-3A 75 65-3 MAC Table	5.79	
C8-3A-35-25-4 C	Authenticated	

4.2.2 Windows 2000 / XP / Vista

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

![](_page_28_Picture_8.jpeg)

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

![](_page_29_Picture_2.jpeg)

# 4.2.2.1 Config AP

2	Ralink	G	)@	) 🤋	) ( <b>i</b> )   ? ×
" <mark>1</mark> "	SSID	SoftAP			
6	Mode	2.4GHz	8	IP	169.254.126.187
4	Channel	1 (2412 MHz)	\$	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	
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	/ Region	
2.4GHz	0: CH1-11	-

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

Config AP	>
Open	
Not Use	•
	Config AP Open Not Use

# 4.2.2.2 Advanced

2	Ralink		0	) 🤊	) 🗊 (i)   ? ×
" <b>T</b> "	SSID	SoftAP			
6	Mode	2.4GHz		IP	169.254.126.187
4	Channel	1 (2412 MHz)	3	Mask	255.255.0.0

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

No forwarding among v	vireless clients
Beacon Interval(ms)	100
TX Power	100 %
Idle time(60 - 3600)(s)	300
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 RWND-N1501UB / RWND-N1502UBE 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 RWND-N1501UB / RWND-N1502UBE).

## 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.

![](_page_31_Picture_7.jpeg)

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

MAC Address	Disable 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.

![](_page_32_Picture_5.jpeg)

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

Associate List X						
MAC Address	AID	Power Saving Mode	Status			
CB-CA-35-C3-41-C.	1	No	N: MCS = 7, BW =			

# FAQ

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

#### 1. The Wireless N USB Adapter does not work properly.

- Reinsert the Wireless N 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.

# 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.

- 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.

- 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.