



**802.11b/g/n High Power
Wireless USB Adapter**

**User Guide of
MT-WN946N/MT-WN943N**

USING THIS DOCUMENT

This document provides detail user guide for MT-WN946N/MT-WN943N
150Mbps High-Power Wireless-N USB Adapter operation and set-up instructions.

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Chapter 1: Introduction

Thank you for purchasing our 150Mbps High-Power Wireless-N USB Adapter. It is a perfect combination of both performance and cost-effective solutions. We hoped that you can enjoy both the freedom of wireless technology and reliability of this product at the same time.

It provides a full compatibility of all the IEEE 802.11 b/g/n protocols that passes the Wi-Fi tests; and ensures the interoperability of these standards. In other words, it means you can connect to the internet wireless world without any difficulty.

It also equips with full security option setting from the 64/128bits WEP encryptions, second generation WPA-PSK encryption, to the most advanced WPA2-AES encryption. WPA2 is the latest security standard currently approved by Wi-Fi standards.

Saving mode, Adhoc wireless Lan, Wake-on-Lan (WOL) and other exciting features are also included. This user manual will guide you through these exciting features in the following chapters and we believed that you will enjoy the performance and ease of use on our adapter.

Chapter 2: Specifications

Host system connections

Interface	Fully complies with USB 2.0 or 1.1
USB data transfer rate	USB high speed (150Mbps), and full speed (12Mbps)

Wireless LAN (WLAN) environment connections

WLAN Interface	Multimode features
	Fully complies with IEEE 802.11 b/g/n specifications
Data Rate	802.11n:150,135,121.5,108,81,54,40.5,27,13.5Mbps 130,117,104,78,52,39,26,13Mbps 72,65,58.5,52,39,26,19.5,13,6.5Mbps
	802.11g:54,48,36,24,18,12,9&6Mbps
	802.11b:11,5.5,2 and 1 Mbps with auto-rate fall back
WLAN Frequency Band	2.4 ~ 2.497 GHz ((Industrial Scientific Medical Band)
Operation Channel	Channel 1 ~ 11
Coverage Area	Indoors:100m with straight path Outdoor: 1000m
Compatibility	Fully compatible to IEEE 802.11 b/g/n devices
Security	Hardware-based IEEE 802.11i encryption/decryption engine, including 64-bit/128-bit WEP, TKIP, and AES
Antenna	Detachable 2dBi dipolar antenna
LED present (Green/Red light)	On: link is on
	Off: link is off
	Quick blinking: data transfer
	Slow blinking with 5 times: scan wireless connections
Wake-on-WLAN	Wake up system by wireless LAN(AP mode)

SYSTEM REQUIREMENT

Windows Operating System: Windows 7, Windows 98SE, ME, 2000, XP 32/64 bit, Vista 32/64 bit.

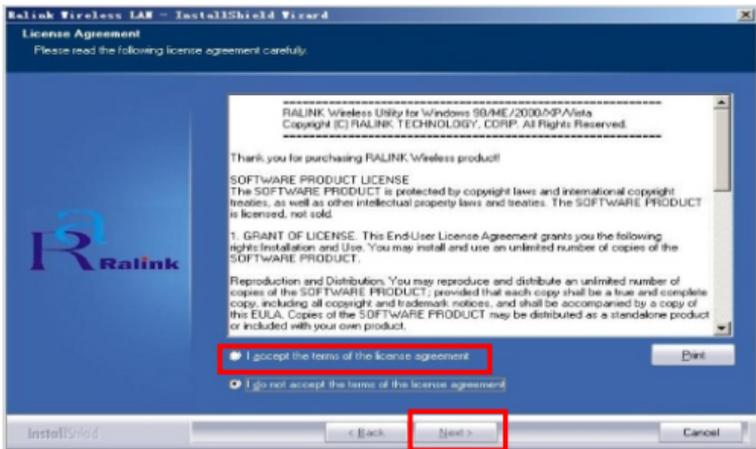
Chapter 3: Installation

3.1 Install the driver

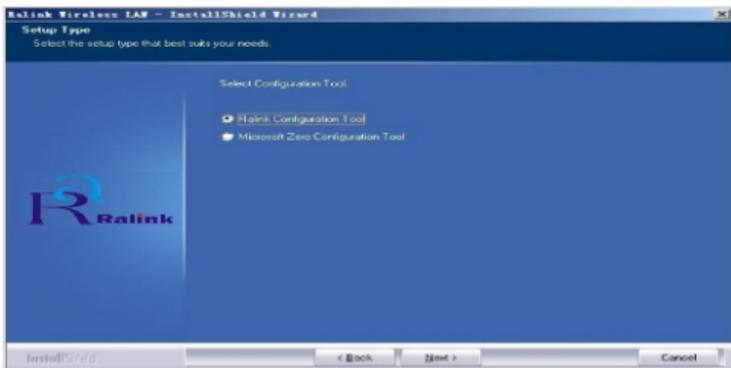
- a. Insert the installation CD into your CD-ROM driver, Double click



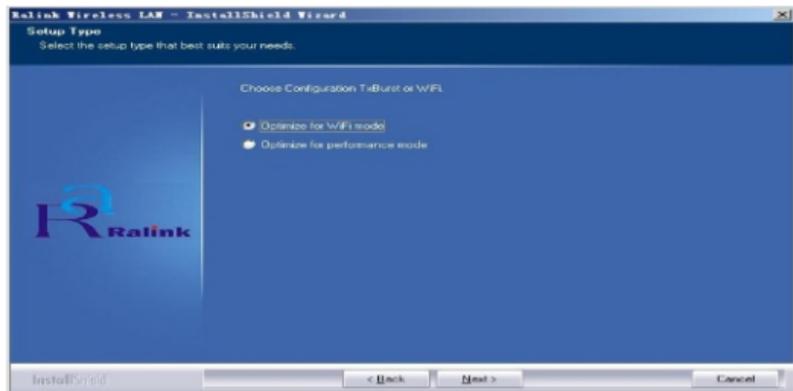
- b.



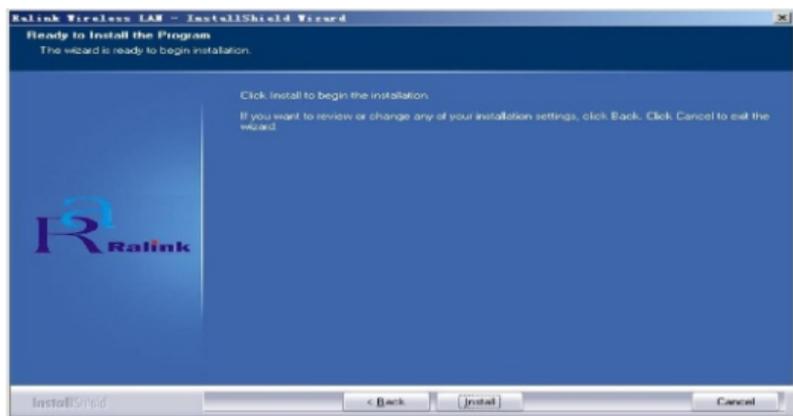
- c. Choose Ralink configuration Tool and click next to go on



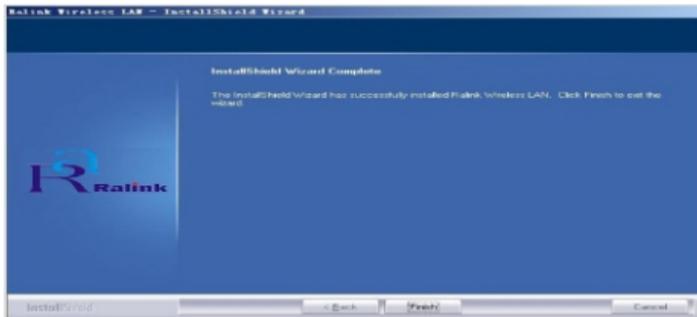
d. Choose optimize for wifi mode and click next to go on



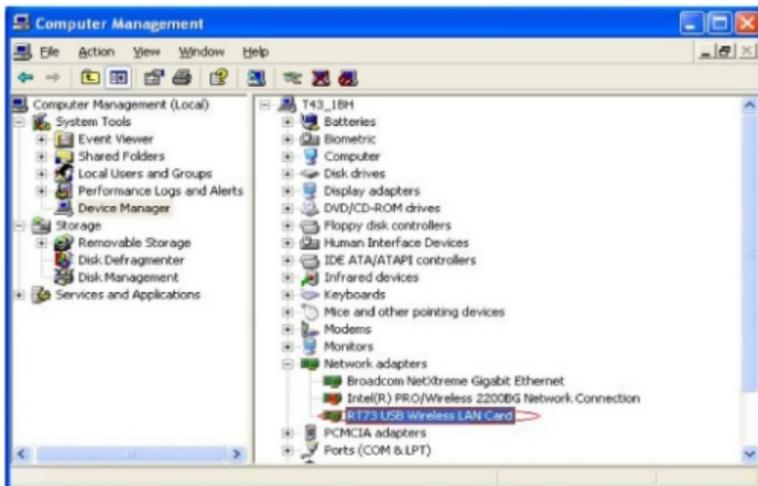
e. Choose Click Install to begin the installation and click Install to go on



f. Click Finish to end the setup



3.2.Plug in your usb wireless LAN adapter,it will be recognized and auto installed..Just confirmed it like below:



3.3.Make infrastructure connection
Double click the icon in red circle



You will see:

The screenshot shows the Mikrotik WinBox interface with the Network tab selected. The 'AP List' table is as follows:

SSID	Channel	Signal
hidvan	11	81%
HIDVAN_SW1	11	81%
RTL88B6-VPN-GW	6	99%
zdoncom	11	50%
zdoncom	1	100%
zdoncom	1	100%
zmk	6	100%

Below the table, the 'Rescan' and 'Connect' buttons are circled in red. The status of the selected 'zdoncom' network is shown below:

Status >> zdoncom <--> 00-0E-89-49-03-04
 Extra Info >> Link is Up (Power:100%)
 Channel >> 1 <--> 2412 MHz; central channel : 0
 Authentication >> Unknown
 Encryption >> None
 Network Type >> Infrastructure
 IP Address >> 192.168.8.13
 Sub Mask >> 255.255.255.0
 Default Gateway >> 192.168.0.1
 HT

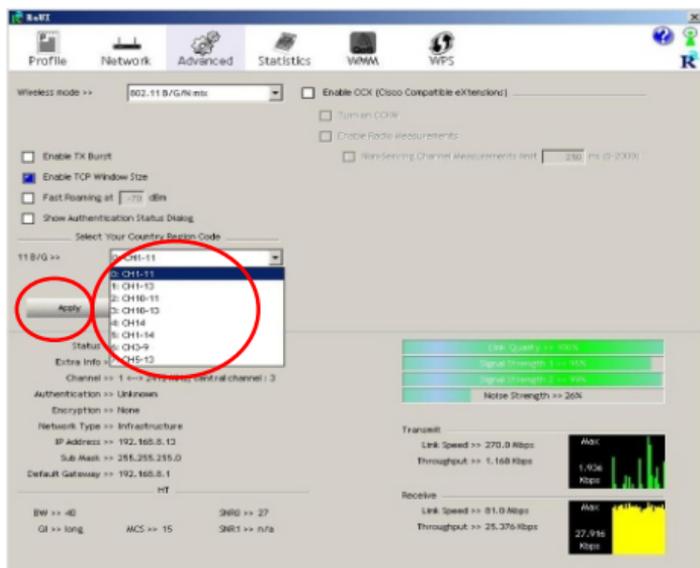
Transmit: Link Speed >> 270.0 Mbps (Max), Throughput >> 0.000 Kbps (0.000 Kbps)

Receive: Link Speed >> 81.0 Mbps (Max), Throughput >> 25.444 Kbps (25.444 Kbps)

You can click the button Rescan to find which AP is in range, then will show on the window, choose one you want to connect, and click the button of connect.

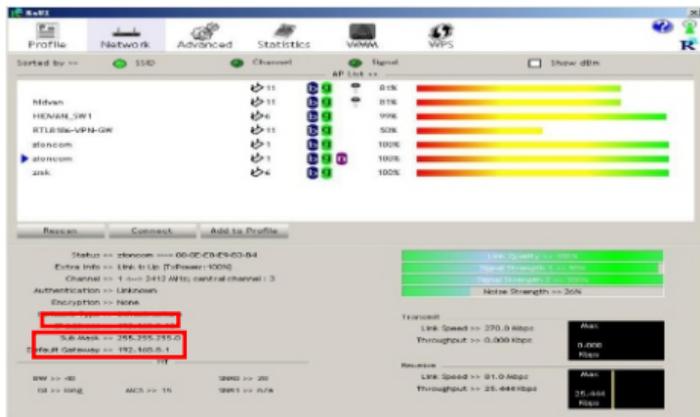
An infrastructure connection is accomplished.

Note, please choose correct channel setting up to your law, for example, ch13 is permitted in your country, and you set your router at ch13, while you choose ch1-ch11 (default setting), you will never find the AP, and you will have to choose ch1-ch13 setting in Advanced page as below.



Chapter 4: Help Information

How to find out your IP address:



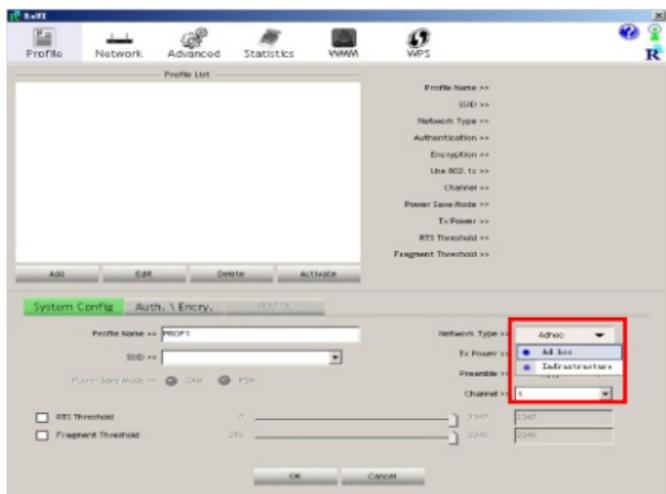
Chapter 5: Ad-hoc Mode Connection

5.1. Make Ad-hoc mode connection

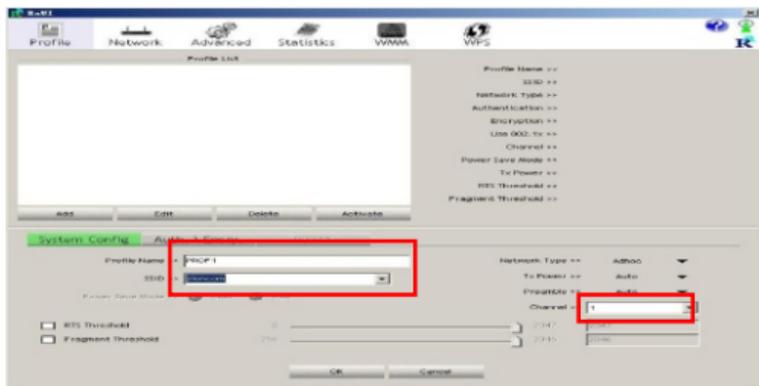
Make an Ad-hoc SSID



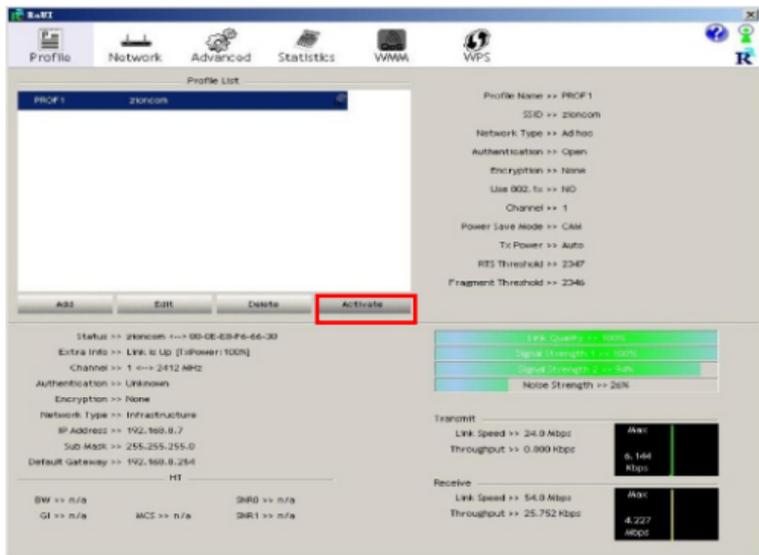
A



B



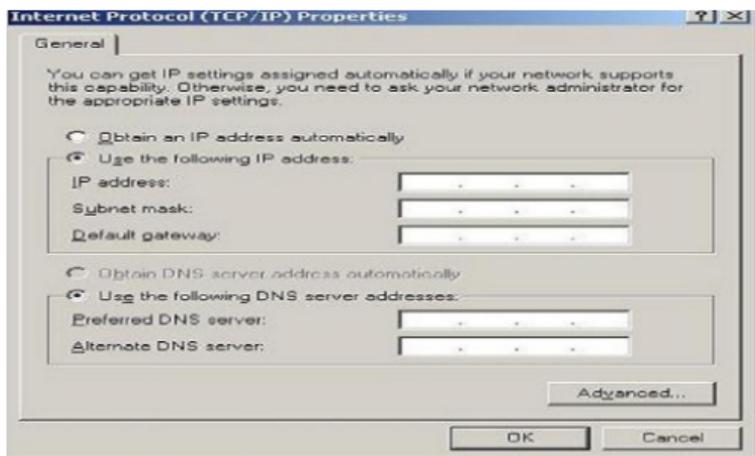
C



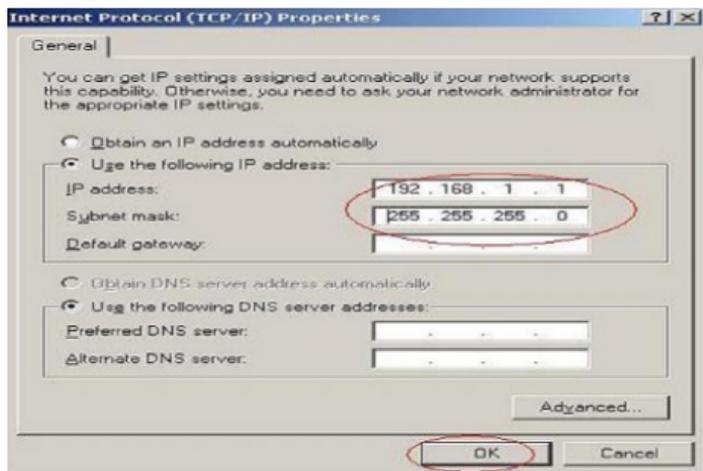
5.2. Setup static IP address for the AD-Hoc Link A at its property page, double click item Internet Protocol (TCP/IP)



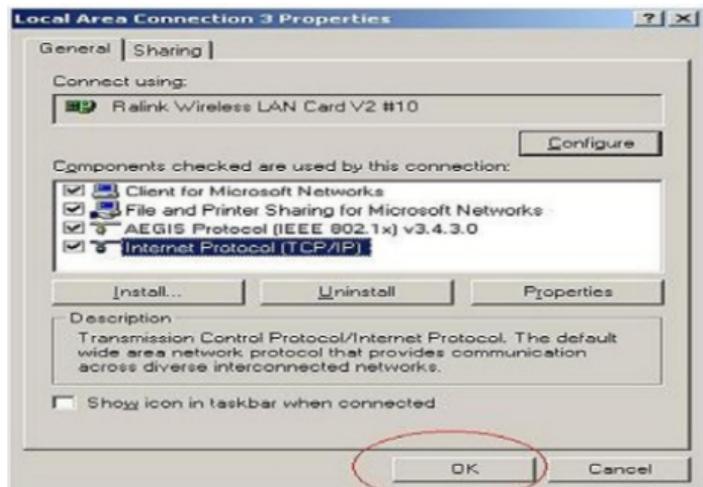
B You will get



C Fill the IP address blank,example as below:



D Click ok to finish the setup



5.3.Ad-Hoc setup for one point accomplished

5.4 Setup another Ad-hoc point as step A B C D.

5.5 Ad-hoc mode link accomplished.And you can visit each other.

Note:To make an Ad-Hoc mode link.Do remember to choose the same channel.Its static IP address should be in the same netsub,and the SSID should be the same too.

