Rosewill®

Wireless N Adapter RNX-N250PC

Quick Installation Guide

Chapter 1 Product Overview

Thank you for choosing Rosewill's 802.11n Wireless PIC adapter – RNX-N250PC. 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 802.11n Wireless PCI Adapter x 1
2. 2 dBi detachable Antenna x 2
3. Low Profile Bracket x 1
4. Quick Installation Guide x 1
5. Resource CD x 1, including:
   - Rosewill Wireless N Client 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

PCI Adapter connects you with IEEE802.11n (Draft 2.0) networks at transfer rate up to an incredible 300Mbps! By using the reflection signal, 802.11n technology increases the range and reduces "dead spots" in the wireless coverage area. Unlike ordinary wireless networking of 802.11b/g standards that are confused by wireless reflections, 802.11n can actually use these reflections to increase four times transmission range of 802.11g products.

Besides, when both ends of the wireless link are 802.11n products, the PCI card can utilize twice radio band to increase three times transmission speed of ordinary 802.11g standard products, and can comply with backwards 802.11b/802.11g standards.

Soft AP supported by PCI Adapter can help you establish wireless LAN networking with lowest cost. Also WPS (PBC and PIN) encryption method can free you from remembering the long passwords. Complete WMM function makes your voice and video more smooth.

1.3 Product Features

- Complies with IEEE 802.11n, IEEE 802.11g, IEEE 802.11b standards
- Provides 32-bit PCI interface 2.2
- Provides 300Mbps upload and download rate
- Supports 20MHz/40MHz frequency width
- Supports 64/128-bit WEP, WPA, WPA2 encryption methods
- Supports WMM for smooth transmit of multimedia files
- Supports Windows 2000, XP 32/64, Vista 32/64, Win 7 32/64, Linux Kernel 2.6.1
- Supports Multiple BSSID

1.4 Product Specification

Standard IEEE 802.11n Draft 2.0 and IEEE802.11g/b	**RF Output Power(Typical)** 802.11b: up to 17 ± 1 dBm 802.11g: up to 15 ± 1 dBm 802.11n: up to 16 ± 1 dBm	**Driver Support** Windows® 2000, XP 32/64, Vista 32/64, Win7 32/64, Linux 2.6.1
Frequency Band 2.400GHz ~ 2.484GHz	**Interface** PCI interface 2.2	**Security** 64/128-bit WEP (Hex & ASCII), WPA(TKIP with IEEE 802.1x), WPA2(AES with IEEE 802.1x)
Data Rate 802.11n: up to 300Mbps Upstream and downstream 802.11g: 54, 48, 36, 24, 18, 12, 9 & 6Mbps 802.11b: 11, 5.5, 2 and 1 Mbps with auto-rate fall back	**Antenna** 2dBi External Detachable antenna x 2	**Dimension:** **Without Bracket** 4.7 x 2.08 in (120x 53 mm) **Weight: (with Bracket and Antenna)** 60 g
Operation Temperature 0°C ~ 55°C ambient temperature	**Storage Humidity** 10% ~ 90% (Non-condensing)	**Storage Temperature** -20°C ~ 70°C ambient temperature

1.5 System Requirement

You must have at least the following

- A desktop PC with an available 32-bit PCI slot
- Minimum 300MHz processor and 32MB memory
- Windows 98SE, ME, 2000, XP 32/64, Vista 32/64, Win7 32/64
- A CD-ROM Drive
- PCI controller properly installed and working in the desktop PC
- 802.11n or 802.11b/g Access Point (for infrastructure Mode) or another 802.11n or 802.11b/g wireless adapter (for Ad-Hoc; Peer-to-Peer networking mode.)

1.6 PCI Adapter LED Status

The status LED indicators of the PCI Adapter are described in the following.

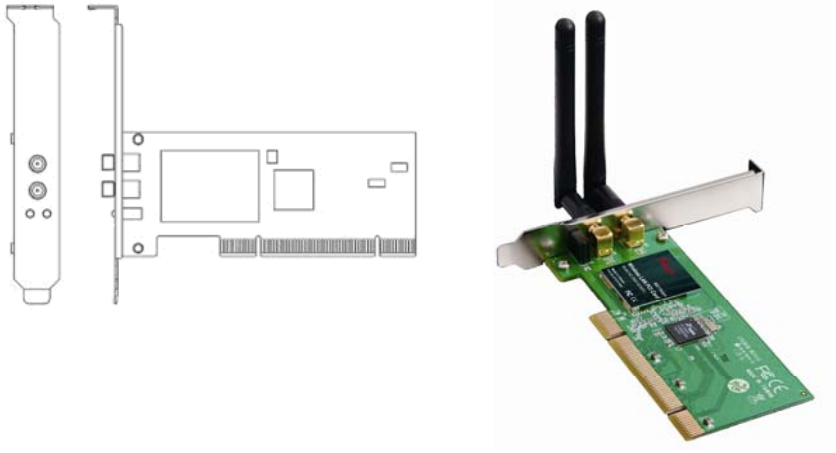

Figure 1-1 Wireless PCI Card LED

- Lnk/Act ON (Green): Indicates a valid connection.
- Lnk/Act Flashing: Indicates the Adapter is transmitting or receiving data

Chapter 2 Security Check List before Installation

Wireless Networks are very convenient, however, since it uses radio waves to send information. It can be vulnerable from those who intended to do harm. So we recommend you take additional steps to secure your wireless network.

- **Change the default wireless network name** or SSID on your wireless router
- **Change the default password** on your wireless router
- **Enable encryption**. We suggest enabling high level of the encryption such as WPA and above.
- **Install Anti-virus program and personal firewall software**
- When set your encryption password, please **select strong pass phrases** that are at least eight characters in length. Combines both letters and numbers to create stronger password and avoid using standard words that can be found in the dictionary.
- Please also remember to keep a record of your **wireless network name**, **default password** (The login name and password which you will need when linking into your wireless router through Internet explorer), **SSID** and **encryption password** (the password which you will need when connecting your wireless adapter with your wireless network) somewhere in case you need them in the future.

Chapter 3 Installation Guide

3.1 Hardware Installation

To install the adapter, follow these steps listed below:

1. Turn off your desktop PC and disconnect the power.
2. Remove your PC case and locate an available PCI slot on the motherboard. Remove the metal slot cover on the back of the PC. Check with your computer manufacturer for instructions if needed.
3. Slide the PCI Adapter into the PCI slot. Make sure that all of its pins are touching the slot's contacts. Once the adapter is firmly in place, secure its fastening tab to your PC's chassis with a mounting screw as shown in **Figure 3-1**. Then, close your PC case.

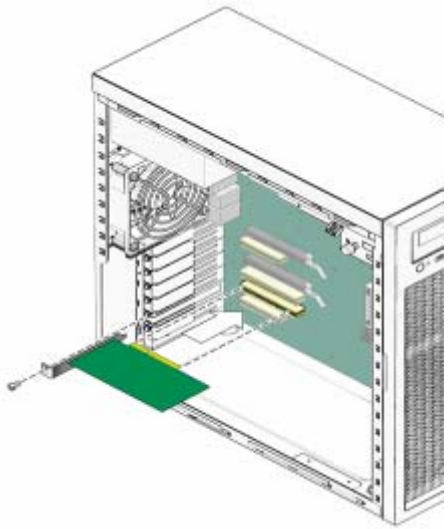

Figure 3-1

4. Reconnect your PC's power and turn on your desktop PC.

Note: Select **Cancel** when "Found New Hardware" window appears.

3.2 Software Installation

Note: The following driver installation guide uses Windows® XP as the presumed operation system. The procedures and screens in Windows® 2000 and Vista are familiar with Windows® XP.

1. After Inserted PCI adapter into your computer. The system should find the newly installed device automatically like **Figure 3-2**. Click cancel to close this window.

Figure 3-2

2. Insert the CD-Rom that came with this product to your CD-Rom drive. The menu window pops up automatically as **Figure 3-3**. Please click the **"Driver"** button of this product. **Note:** If the CD-Rom fails to auto-run, please click on "**My Computer**"> your **CD-Rom Drive> (folder of this product)> Driver** then double-click the "**Setup"** icon to start this menu.

Figure 3-3

3. Select if you are going to configure your wireless network with this **Rosewill Utility** or with **Microsoft Zero Configuration tool**.

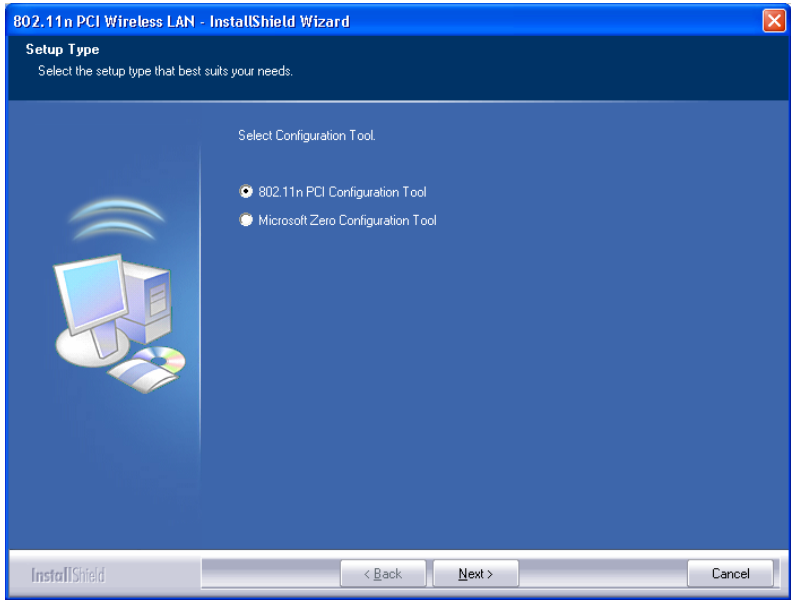

Figure 3-4

4. Click the "**Install"** button to start installing.

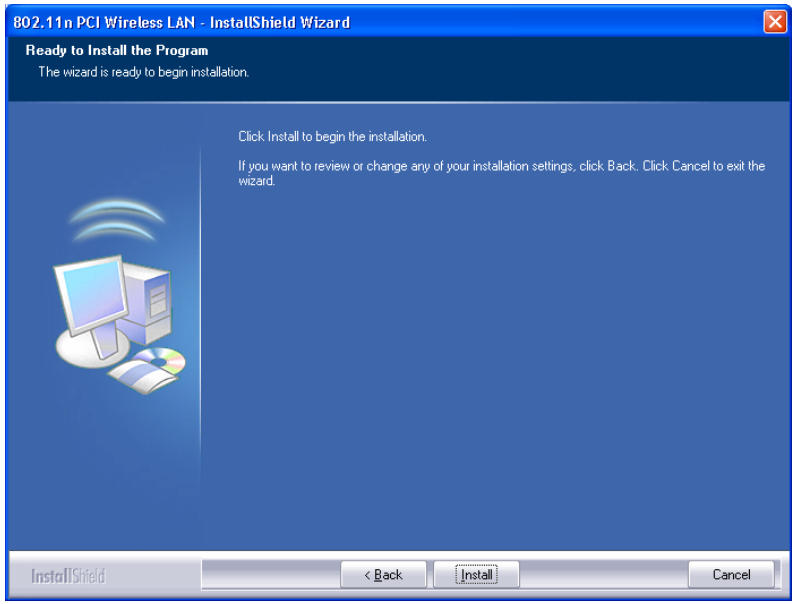

Figure 3-5

5. Click the "**Finish"** button to complete installation.

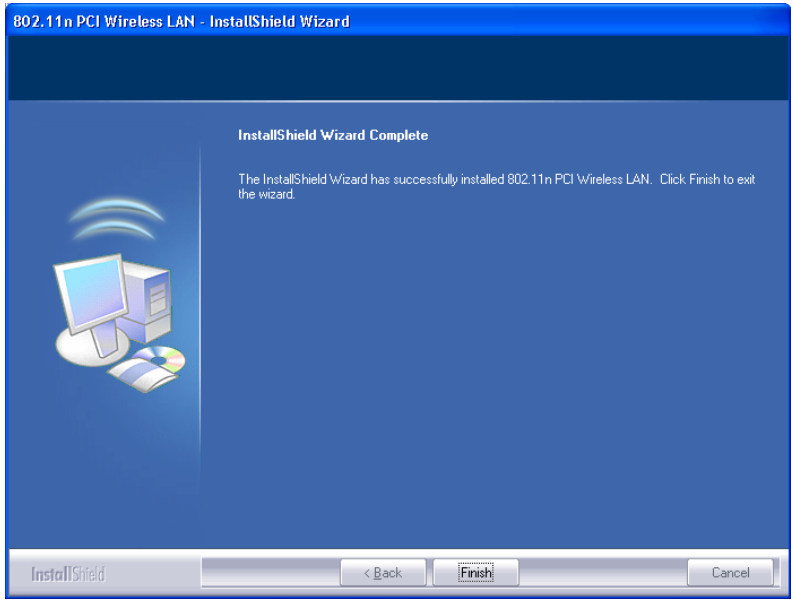

Figure 3-6

6. You may be prompt to restart your computer for the driver to take effect. Please select "**Restart**" or depending on your desire, you can select "**Restart Later**"

Chapter 4 Connection Guide

This chapter will help you understand the management interface of the device and how to manage the device.

4.1 Configures a Basic Network Connection

4.1.1 Selecting configuration tool

Windows XP includes a wireless configuration utility named "Windows Zero configuration" (WZC) which provides basic configuration functions to RNX-N250PC. Rosewill's utility provides additional WPA functionality. This utility will let users make a selection when it first runs after windows XP boots.

Note:

You could use either the software we provide or Microsoft Zero Configuration tool to configure this adapter. To switch between the two configuration tools, please mouse right click select in the lower right hand corner of the Toolbars like **Figure 4-1**.

Figure 4-1

4.2 Connecting with Microsoft Zero Configuration

1. After specifying the Microsoft **Zero Configuration tool** to configure your wireless network, right click on the icon on system tray as **Figure 4-2**. Select "**View available wireless Networks**" to specify your wireless network.

Figure 4-2

2. The tool shows the available wireless networks. Select your network SSID to connect with like **Figure 4-3**.

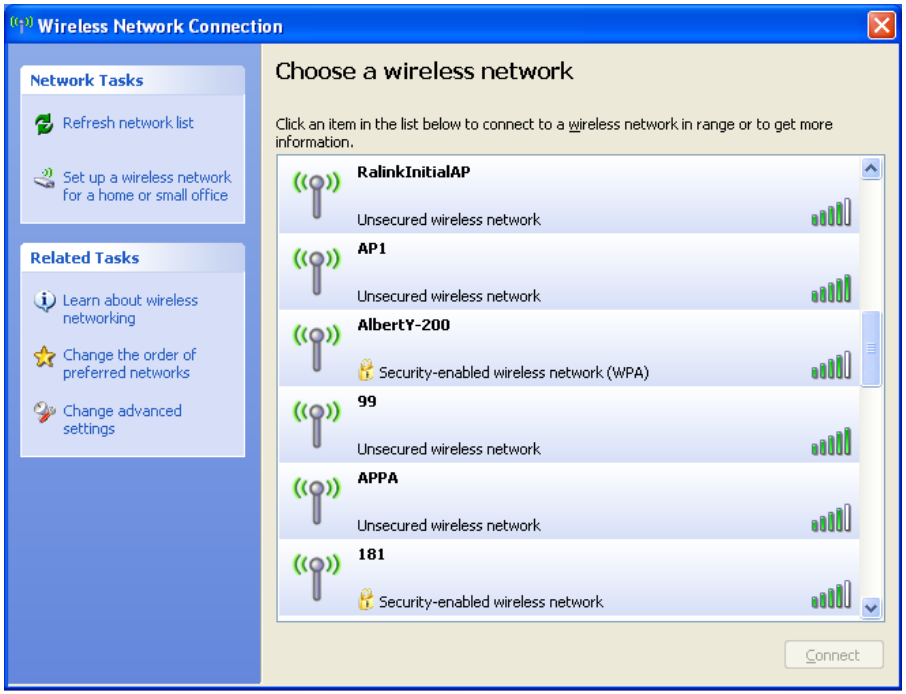

Figure 4-3

3. If your wireless Network has encryption enable, you will be ask to enter the password like **Figure 4-4**. Please enter your wireless password at "**Network key**" section twice and click "**Connect**" to confirm.

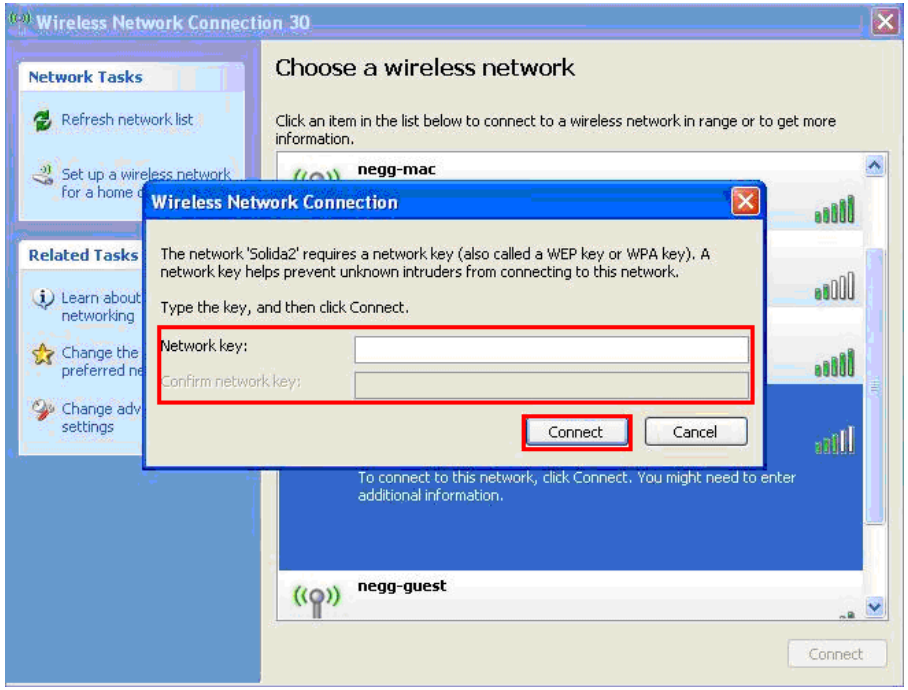

Figure 4-4

4. If your wireless Network does not contains encryption, select the intended access point and click "**Connect**". Then click "**Connect Anyway**" like **Figure 4-5**.

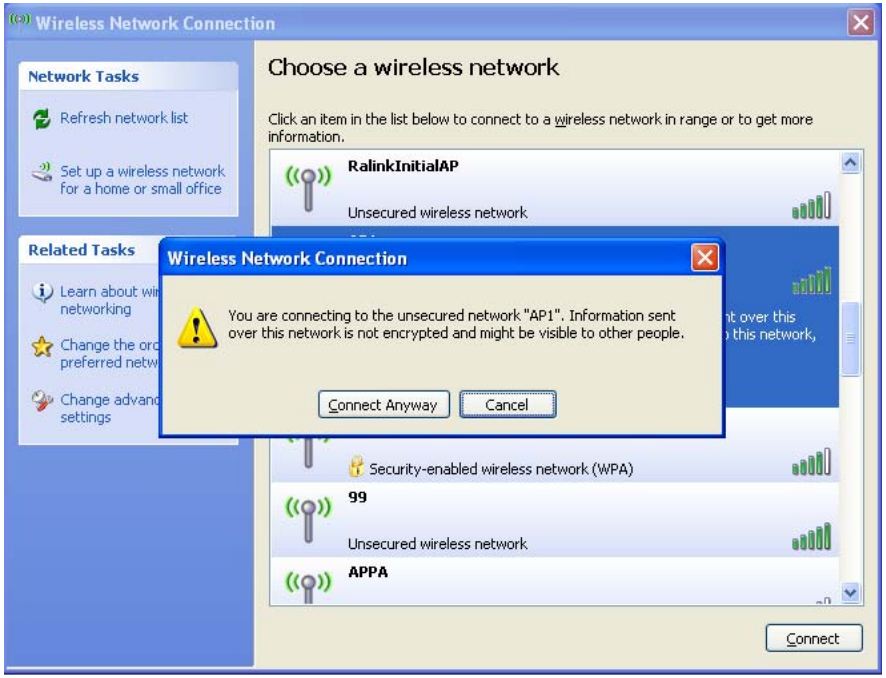

Figure 4-5

5. Once completed, you should see like **Figure 4-6** as your computer is now "**Connected**" with your wireless Network.

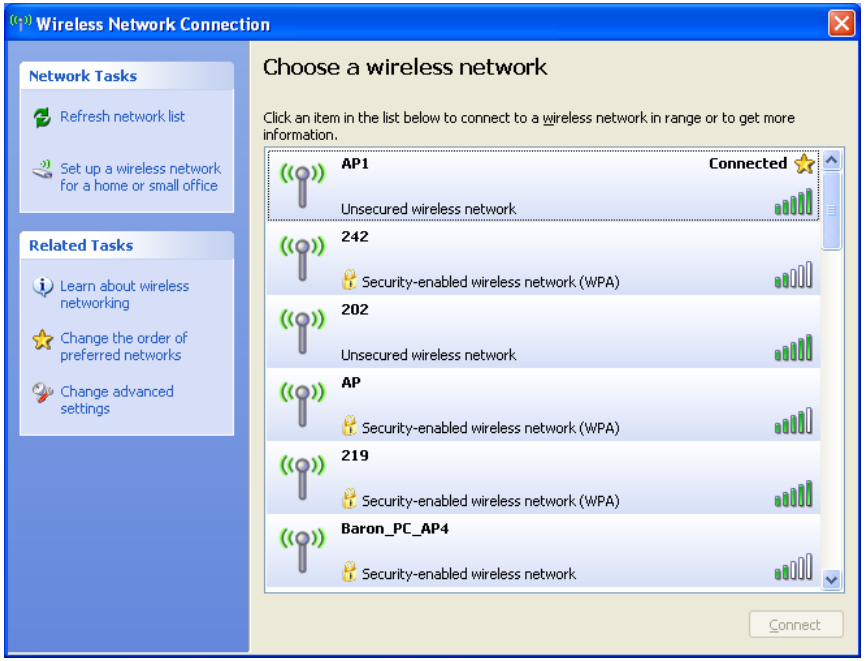

Figure 4-6

6. You should see the pop-up window on your low right hand corner indicate the connected status. As shown in **Figure 4-7**.

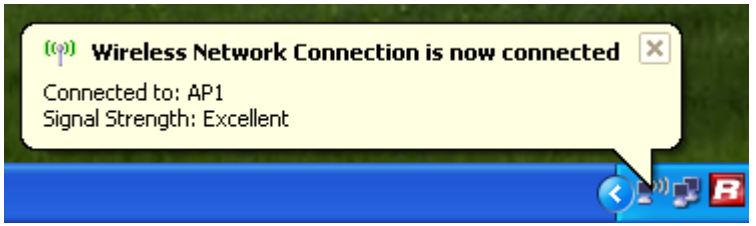

Figure 4-7

Wireless N Adapter RNX-N250PC

Please register your product at: www.rosewill.com for complete warranty information and future support for your product.

Support: techsupport@rosewill.com