

# LINDY®

## CONNECTION PERFECTION

### Wireless N Router

User Manual

English



LINDY No. 52015

[www.lindy.com](http://www.lindy.com)



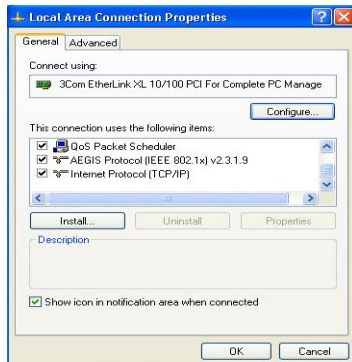
**Internet:** This LED will flash when there is a successful Internet connection

**LAN:** This LED will light up when the Ethernet port of your router is connected to LAN. The LED will flash to indicate network activity over the port

## Configure the Network Settings

### Windows 2000/XP

1. Click **Start, Settings** then **Control Panel**
2. Double-Click the **Network Connection** icon
3. Right-Click on the **Local Area Connection** icon and then click on **Properties**



4. Under the **General** Configuration Tab, locate and select **TCP/IP** with the corresponding network card, then click **Properties**. The Internet Protocol (TCP/IP) properties window will appear
5. Click on **Use the following IP Address** and enter  
 IP Address: 192.168.1.10  
 Subnet Mask: 255.255.255.0  
 Default gateway: 192.168.1.1

## Introduction

Thank you for purchasing the LINDY Wireless N Router. This product complies with IEEE 802.11n draft 2.0 wireless specifications and is also backward compatible with 802.11g. This Router has integrated MIMO (multi in, multi out) technology which enhances coverage range and delivers 6x greater performance. With the ability to achieve incredible data rates of up to 300Mbps, you can enjoy high speed internet access for data, video and voice at the home or office. To ensure your wireless network is secure against hackers, the PCI Card incorporates the latest WPA2 encryption, WPA with AES and TKIP.

## Installation

1. Power off your network devices
2. Locate an optimum position for the Router. The best place is usually at the centre of your wireless network, with line of sight to all of your wireless devices
3. Adjust the antennas to the highest possible location for the best performance
4. Using a standard Ethernet network cable, connect to the router's Ethernet port to your local network
5. Connect the AC power adapter to the router's power port. Then connect the other end to an electrical outlet. Only use the power adapter supplied with the unit. Use of a different adapter may cause product damage
6. The Hardware installation is now complete

## Hardware LED status

The following LED's should be lit:

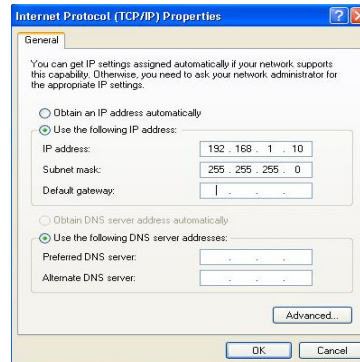
**Power:** The Power LED will be lit when power is applied

**Security (orange):** WPS encryption is working when lit

**Wireless:** This LED will be lit when wireless is available and blink when data is transmitted or received

**Router:** This LED will be lit when used in router mode

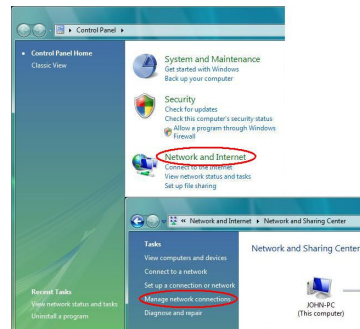
**DIAG (red):** This will be lit when the firmware is updating or the system has an error



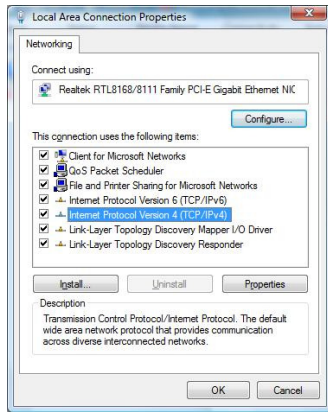
6. Now your computer is ready to access and configure the Router

### Windows VISTA/7

1. Click **Start, Settings, Control Panel**, then **Network and Internet** and **Manage network connections**



- Right-Click on the **Local Area Connection** icon and then click on **Properties**.
- Under the **Networking** Configuration Tab, locate and select **Internet Protocol Version4 (TCP/IPv4)** with the corresponding network card, then click **Properties**. The Internet Protocol (TCP/IP) Properties window will appear



- Click on **Use the following IP Address** and enter  
 IP Address: 192.168.1.10  
 Subnet Mask: 255.255.255.0  
 Default gateway: 192.168.1.1
- Now your computer is ready to access and configure the Router

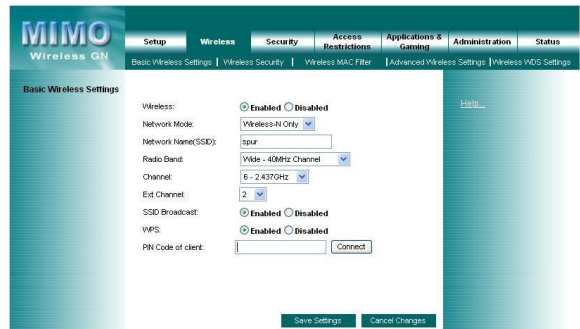
**NOTE:** The default IP address setting for the router is a class C IP address (192.168.1.1 / 255.255.255.0). Please make sure that the current workstation is following the class C IP address range, from 192.168.1.2 to 192.168.1.254

## Configure the Router Settings

- Open your web browser and type **http://192.168.1.1** in the Address bar, and press **Enter**.
- An authentication window will appear. Enter the username and password, and then click **OK**. (by default, please leave the username blank and type **admin** in password)



- Click on the **Wireless** tab to make changes to the SSID or security settings



- Click "Save Settings" to finish the Setup and close the browser to reboot the router. All changes will take effect when you log out of the browser
- When the router reboot procedure is complete, you may change the TCP/IP properties of your computer to use DHCP. Select the "Obtain an IP address automatically" instead of "Use the following IP Address". This step will set your computer as DHCP client and get an IP address from your DHCP server via the router
- To check the DHCP function, go to the Windows command prompt and type "ipconfig." You should now see the IP address, subnet mask and default gateway, this confirms your computer is connected to local network

For a detailed manual, please refer to the included CD-ROM

## Product Specifications

- IEEE802.11n draft compliant
- DHCP Client/Server
- NAT, PPoE Client
- Dynamic DNS
- Up to 300Mbps data transfer rate
- 6 x greater performance
- MIMO technology
- Backwards compatible with 802.11b/g
- Advanced security: 64/128bit WPA, WPA2, TKIP, AES
- SPI Firewall
- Chipset: Ralink
- Three external detachable 2dBi RSMA antenna

**Standard:** IEEE draft 802.11n, 802.11b/g, 802.3, 802.3u

### Frequency Band:

802.11b: ISM band 2.400 ~ 2.484GHz (subject to local regulations)  
 802.11g: ISM band 2.400 ~ 2.484GHz (subject to local regulations)  
 802.11n draft: ISM band 2422 – 2452MHz (channel BW=40MHz)  
 2400 – 2483.5MHz (channel BW=20MHz)

## Certifications

### FCC Certifications

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

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.

### CE Certification

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55024 and EN55022 class A for ITE, EN61000-3-2/-3 the essential protection requirement of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

## Recycling Information



WEEE (Waste of Electrical and Electronic Equipment),  
 Recycling of Electronic Products

### United Kingdom

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process. Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your

**RF chain:** 2T3R for HT20, HT40, 1T3R for 802.11b/g mode

### Spreading:

802.11b: Direct Sequence Spread Spectrum (DSSS)  
 802.11g: Orthogonal Frequency Division Multiplexing (OFDM)  
 HT20: Orthogonal Frequency Division Multiplexing (OFDM) multiple-input/multiple-output (MIMO)  
 HT40: Orthogonal Frequency Division Multiplexing (OFDM) multiple-input/multiple-output (MIMO)

### Modulation:

802.11g: G64 QAM, 16 QAM, QPSK, BPSK  
 802.11b: GCCK, DQPSK, DBPSK  
 HT20, HT40: 64 QAM, 16 QAM, QPSK, BPSK Data

### Data Rate:

802.11b: 11, 5.5, 2, 1 Mbps per channel  
 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps per channel  
 HT20: 144, 130, 115, 86, 57, 43, 28, 14 Mbps  
 HT40: 270, 240, 180, 120, 90, 60, 30Mbps

### Receive sensitivity:

Nominal Temp Range  
 802.11g (3RX):  
 6Mbps @ -91dBm, typical, +/-2dBm  
 54Mbps @ -72dBm, typical, +/-2dBm  
 802.11b:  
 Typ. -85dBm @ 11Mbps, +/-2dBm  
 Typ. -92dBm @ 1Mbps, +/-2dBm  
 HT20 (3RX):  
 MCS=0 -87dBm, +/-2dBm  
 MCS=15 -67dBm, +/-2dBm  
 HT40 (3RX):  
 MCS=0 -85dbm, +/-2dBm  
 MCS=15 -64dBm, +/-2dBm

national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

### Germany / Deutschland

Die Europäische Union hat mit der WEEE Richtlinie umfassende Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden von der Bundesregierung im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt. Dieses Gesetz verbietet vom 24.März 2006 an das Entsorgen von entsprechenden, auch alten, Elektro- und Elektronikgeräten über die Hausmülltonne! Diese Geräte müssen den lokalen Sammelsystemen bzw. örtlichen Sammelstellen zugeführt werden! Dort werden sie kostenlos entgegengenommen. Die Kosten für den weiteren Recyclingprozess übernimmt die Gesamtheit der Gerätehersteller.

### France

En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique. Chaque Etat membre de l' Union Européenne a mis en application la nouvelle réglementation (DEEE) de manières légèrement différentes. Veuillez suivre le décret d'application correspondant à l'élimination des déchets électriques ou électroniques de votre pays.

### Italy

Nel 2006 l'unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate. Ogni stato membro dell' EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico. Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.

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