

**802.11 a/b/g  
Radio Card**

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## 802.11 n/b/g Compliant 2.4GHz Mini-PCI Module

**MODEL NAME** WM5200



### Introduction

The WM5200 is an IEEE802.11n/b/g mini-PCI module that connects your laptop to a wireless local area. The WM5200 2\*3 MIMO Technology improves effective throughput and range over existing 802.11 b/g products better expands the receiving distance and efficiently eliminates wireless connection dead spots compared with normal 11g products.

The WM5200 is a very small module that can fit into any laptop, handheld or desktop computer equipped with a mini-PCI(Type III B slot) interface for wireless network applications. It allows you to take full advantage of your laptop's mobility with access to real-time information and online services anytime and anywhere. It slides easily into the mini-PCI expansion slot to enable a wireless connection to your network.

### Features

- 300 Mbps PHY Rate Support
- 2 X 3 MIMO Technology improves effective throughput and range over existing 802.11 b/g products
- Qos WMM, WMM-PS
- Support 802.11n/b/g standard
- Low power consumption
- Operating Systems Support: Windows 2000, Windows XP, Windows Vista, Linux

### Specifications

<b>Standards</b>	IEEE 802.11 n/b/g standards compliant
<b>Chipset</b>	Ralink
<b>Antenna</b>	Detachable antenna
<b>Frequency Range</b>	802.11 n/b/g USA (FCC): 2.412 ~ 2.462 GHz Europe (ETSI): 2.412 ~ 2.472GHz Japan (TELEC): 2.412 ~ 2.483GHz 802.11 n 20MHz / 40MHz; 802.11 b/g
<b>Channels</b>	USA(FCC): 11 channels; EU(ETSI): 13 channels; Japan(TELEC): 14 channels
<b>Data Rate</b>	802.11n: up to 300Mbps 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
<b>Coverage Area</b>	Up to 12 times faster then existing 802.11 b/g products
<b>Transmit Power</b>	11n HT40: +16dBm; 11b CCK: +18dBm; 11g OFDM: +18dBm
<b>Receiver Sensitivity</b>	-67dBm at 300Mbps -79dBm at 54Mbps, 10% PER -92dBm at 11Mbps, 8% PER
<b>Power Requirement</b>	3.3 Vdc
<b>Dimension</b>	44.6(L) x 59.9(W) x 3.1(H) mm
<b>Certifications</b>	FCC, CE

**NOTE:** SOME SIZES, STYLES AND OPTIONS ARE NON-STANDARD, NON-CANCELLABLE AND NON-RETURNABLE.

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# MOUNTS

**MODEL NAME** WM5201



## Introduction

The WM5201 is an IEEE802.11n/b/g PCI Express mini card connects your notebook to a wireless local area. The WM5201 1x1 11n Technology improves effective throughput and range over existing 802.11b/g products better expands the receiving distance and efficiently eliminates wireless connection dead spots compared with normal 11g products.

The WM5201 is a very small module that can connects notebook, handheld or desktop computer equipped with PCI Express mini card interface for wireless network applications. It allows you to take full advantage of your notebook's mobility with access to real-time information and online services anytime and anywhere.

## Features

- 150MHz PHY Rate Support
- 20MHz/40MHz bandwidth
- WEP 64/128, WPA, WPA2, TKIP,AES Support
- QoS – WMM, WMM-PS
- PCI Express 1.1
- Low Power with Advanced Power Management

## Specifications

<b>Standards</b>	IEEE 802.11 n/b/g standards compliant
<b>Chipset</b>	Ralink
<b>Antenna</b>	Detachable antenna
<b>Frequency Range</b>	802.11 n/b/g USA (FCC): 2.412 ~ 2.462 GHz Europe (ETSI): 2.412 ~ 2.472GHz Japan (TELEC): 2.412 ~ 2.483GHz 802.11 n 20MHz / 40MHz; 802.11 b/g
<b>Channels</b>	USA(FCC): 11 channels; EU(ETSI): 13 channels; Japan(TELEC): 13 channels
<b>Data Rate</b>	802.11n: up to 150Mbps 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
<b>Coverage Area</b>	Up to 12 times faster then existing 802.11 b/g products
<b>Transmit Power(EIRP)</b>	11n HT40 : +15dBm 11b CCK: +18dBm 11g OFDM: +15dBm
<b>Receiver Sensitivity</b>	-66dBm at HT40MHz; -69dBm at HT20MHz -72dBm at 54Mbps, 10% PER -88dBm at 11Mbps, 8% PER
<b>Power Requirement</b>	3.3 Vdc
<b>Dimension</b>	51(L) x 30(W) x 3.5(H) mm
<b>Certifications</b>	FCC, CE

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# 802.11 b/g/n Mini Wireless LAN USB 2.0 Adapter

**MODEL NAME**      **WU5202**



## Introduction

The WU5202 is an IEEE802.11b/g/n USB adapter that connects your notebook to a wireless local area. The WU5202 1\*2 MIMO Technology improves effective throughput and range over existing 802.11b/g products better expands the receiving distance and efficiently eliminates wireless connection dead spots compared with normal 11g products.

The WU5202 is a very small adapter that can connect notebook, handheld or desktop computer equipped with USB interface for wireless network applications. It allows you to take full advantage of your notebook's mobility with access to real-time information and online services anytime and anywhere.

## Features

- High-speed Wireless-N (draft 802.11n) networking for your desktop or notebook PC
- 802.11b/g compliant
- WPA/WPA2 Encryption
- USB interface
- Compatible with Microsoft Windows 2000, and XP

## Specifications

<b>Standards</b>	IEEE 802.11 b/g/n standards compliant	<b>Power Requirement</b>	5 Vdc
<b>Antenna</b>	Chip antenna (2dBi) *2	<b>Environment Specifications</b>	Operating Temp : 0°C to 45°C Storage Temp : -20°C to 70°C Operating Humidity : 10% to 90% Non-Condensing Storage Humidity : 5% to 90% Non-Condensing
<b>Supported OS</b>	Windows 2000, XP, Vista		
<b>Certifications:</b>	FCC, CE		
<b>Security</b>	WEP 64/128 WPA, WPA2		
<b>Frequency Range</b>	802.11b/g/n USA (FCC): 2.412GHz ~ 2.462GHz Europe (ETSI): 2.412GHz ~ 2.472 GHz Japan (TELEC): 2.412GHz ~ 2.483GHz		
<b>Number of Selectable Channels</b>	802.11b/g/n: USA (FCC) 11 channels; EU (ETSI) 13 channels; Japan (TELEC) 13 channels		
<b>Data Rate</b>	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: up to 300Mbps		
<b>Coverage Area</b>	Up to 12 times faster than existing 802.11b/g products		
<b>Transmit Power (EIRP)</b>	802.11b : 16+/-1.5 dBm (Typical) 802.11g : 13+/-1.5 dBm (Typical) Wireless-N : 13+/-1.5 dBm (Typical)		
<b>Receiver Sensitivity</b>	11b 11Mbps :-76dBm 11g 54Mbps :-65dBm 11n-HT20 72.22Mbps :-62dBm 11n-HT40 150Mbps :-59dBm		
<b>Physical Specifications</b>	Weight : 10g Dimension : 71.5(L)*19(W)*7.9(H) mm		

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# 802.11 b/g/n Mini Wireless LAN USB 2.0 Adapter

**MODEL NAME**      **WU5204**



### Introduction

The WU5204 is an IEEE802.11b/g/n USB adapter that connects your notebook to a wireless local area. The WU5204 fully complies with IEEE 802.11n draft 3.0 and IEEE 802.11 b/g standards, delivers reliable, cost-effective, feature rich wireless connectivity at high throughput from an extended distance.

The WU5204 is a very small adapter that can connects notebook, handheld or desktop computer equipped with USB interface for wireless network applications. It allows you to take full advantage of your notebook's mobility with access to real-time information and online services anytime and

### Features

- 1T1R Mode with 150Mbps PHY Rate for both
- Complies with IEEE 802.11n draft 3.0 and IEEE 802.11 b/g standards
- Supports WEP 64/128, WPA, WPA2
- Supports WMM and WMM-PS
- Supports WPS configuration
- Supports USB 2.0/1.1 interface
- Portable and mini-size design
- Compatible with Microsoft Windows Vista, XP, 2000

### Specifications

<b>Standards</b>	IEEE 802.11 b/g/n standards compliant	<b>Power Requirement</b>	DC 5V
<b>Antenna</b>	Chip antenna (2dBi) *1	<b>Environment Specifications</b>	Operating Temp : 0°C to 45°C Storage Temp : -20°C to 70°C Operating Humidity : 10% to 90% Non-Condensing Storage Humidity : 5% to 90% Non-Condensing
<b>Supported OS</b>	Windows 2000, XP, Vista		
<b>Certifications:</b>	FCC, CE		
<b>Security</b>	WEP 64/128 WPA, WPA2		
<b>Frequency Range</b>	802.11b/g/n USA (FCC): 2.412GHz ~ 2.462GHz Europe (ETSI): 2.412GHz ~ 2.472 GHz Japan (TELEC): 2.412GHz ~ 2.472GHz		
<b>Number of Selectable Channels</b>	802.11b/g/n: USA (FCC) 11 channels; EU (ETSI) 13 channels; Japan (TELEC) 13 channels		
<b>Data Rate</b>	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n(20MHz):MCS0~7, up to 72.22Mbps 802.11n(40MHz):MCS0~7, up to 150Mbps		
<b>Transmit Power (EIRP)</b>	802.11b : 17+/-1.5 dBm (Typical) 802.11g : 13+/-1.5 dBm (Typical) Wireless-N : 13+/-1.5 dBm (Typical)		
<b>Receiver Sensitivity</b>	11b 11Mbps :-76dBm 11g 54Mbps :-65dBm 11n-HT20 72.22Mbps :-62dBm 11n-HT40 150Mbps :-59dBm		
<b>Physical Specifications</b>	Weight : 7.5g Dimension : 55.50(L)*19.00(W)*8.10(H) mm		

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# 802.11 b/g/n Mini Wireless LAN USB 2.0 Adapter

**MODEL NAME**      **WU5205**



### Introduction

The WU5205 is an IEEE802.11b/g/n mini-size USB adapter that can connect notebook, handheld or desktop computer equipped with USB interface without the hassle of cabling or wiring, which significantly brings mobile workers the freedom of staying connected to the network while roaming around a building or multiple buildings maintaining access to the Internet, e-mail, networked applications, and print services.

The WU5205 fully complies with IEEE 802.11n draft 3.0 and IEEE 802.11 b/g standards, delivers reliable, cost-effective, feature rich wireless connectivity at high throughput from an extended distance. It supports WMM and WMM-PS (IEEE802.11e QoS standard); also has an innovative built-in WPS (Wi-Fi Protected Setup) function which can build a connection between an AP and synchronize the encryption settings.

### Features

- 1T1R Mode with 150Mbps PHY Rate for both
- Supports WEP 64/128, WPA, WPA2
- Supports WPS configuration
- Supports USB 2.0/1.1 interface
- Compatible with Microsoft Windows 2000, XP, Vista,



### Specifications

<b>Standards</b>	IEEE 802.11 b/g/n standards compliant	<b>Receiver Sensitivity</b>	11b 11Mbps :-76dBm
<b>Antenna</b>	Chip antenna (2dBi) *1 (Peak Gain)		11g 54Mbps :-65dBm
<b>Supported OS</b>	Windows 2000, XP, Vista		11n-HT20 72.22Mbps :-62dBm
<b>Certifications:</b>	FCC, CE	<b>Physical Specifications</b>	11n-HT40 150Mbps :-59dBm
<b>Security</b>	WEP 64/128 WPA, WPA2		Weight : 10g Dimension : 71.5(L)*19(W)*7.9(H) mm
<b>Frequency Range</b>	802.11b/g/n USA (FCC): 2.412GHz ~ 2.462GHz Europe (ETSI): 2.412GHz ~ 2.472 GHz Japan (TELEC): 2.412GHz ~ 2.472GHz	<b>Power Requiremen</b>	DC 5V
<b>Number of Selectable Channels</b>	802.11b/g/n: USA (FCC) 11 channels; EU (ETSI) 13 channels; Japan (TELEC) 13 channels		<b>Environment Specifications</b>
<b>Data Rate</b>	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n(20MHz):MCS0~7, up to 72.22Mbps 802.11n(40MHz):MCS0~7, up to 150Mbps		
<b>Transmit Power (EIRP)</b>	802.11b : 16+/-1.5 dBm (Typical) 802.11g : 12+/-1.5 dBm (Typical) Wireless-N : 12+/-1.5 dBm (Typical)		

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