



# MIMO Wireless USB Adapter



WNC-0500USB

H/W Version: 1

## Higher Data Throughput

The WNC-0500USB supports high data throughput up to 54Mbps. In the Turbo Mode, data is compressed to decrease the waiting time to send data to a wireless access point or router. The dual built-in antenna allows for high-data transmission using Multiple In Multiple Out (MIMO) technology for extended distances and no dead zones in the wireless network.

## Excellent solution for enhanced Multi-Media use

With improved wireless connection, this USB wireless adapter is an excellent solution to enhance Voice over Internet Protocol (VoIP) and other priority data transmission. The QoS (Quality of Service) feature of the MIMO USB

adapter allows users to select which traffic stays at the head of the transfer queue for uninterrupted transfers.

## Security

WNC-0500USB supports an array of security features to protect data transmitted over the wireless network. It provides 64/128-bit WEP data encryption with WPA (Wi-Fi Protected Access), TKIP (Temporal Key Integrity Protocol) keys and IEEE 802.1x user authentication. In addition, it supports WPA2 that provides a stronger encryption mechanism through AES (Advanced Encryption Standard), which is a requirement for corporate and government users.



1. TX LED
2. Power LED
3. RX LED
4. Mini USB Port

## Key Features

- Works with both IEEE 802.11b and IEEE 802.11g products
- Farther coverage, less dead spaces and higher throughput with MIMO (Multiple Input Multiple Output) technology
- Supports WMM (IEEE 802.11e QoS standard) function to meet the multi-media data bandwidth requirement
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x) functions for high level of security
- Automatic fallback increases data security and reliability
- Supports Windows 98SE/ME/2000/XP/Vista

## Related Products



**WNC-0500**  
MIMO Wireless PCI Card



**WPC-0500**  
MIMO Wireless Cardbus Adapter

## Technical Specification

### Standards

IEEE 802.11g, IEEE 802.11b

### Host Interface

USB Port Type: USB 2.0, 1.1

### Radio Operation

#### Data Transfer Rate

802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps

802.11b: 11, 5.5, 2 and 1 Mbps

#### Modulation

802.11g: OFDM

802.11b: CCK, QPSK, BPSK

#### Media Access Control

CSMA/CA with ACK

#### Frequency Band

2.4GHz ~ 2.4835GHz

#### Number of Channels

Channel 1~11 North America

Channel 1~13 Europe, Japan

#### Transmitter Output Power (Typical)

802.11g/b: 18 ~ 20dBm

### Network Security

- WEP-64/128 bit
- WPA
- WPA-PSK
- WPA2
- WPA2-PSK
- TKIP, AES with 802.1x

### Device Management

Windows Utility Software

OS Supported: Windows 98SE/ME/2000/XP/Vista 32bit/  
Vista 64bit

### Physical Specifications

#### LED

Power/Link (TX/RX)

#### Temperature

Operating: 0°C ~ 50°C

#### Humidity

&lt; 95% (non-condensing)

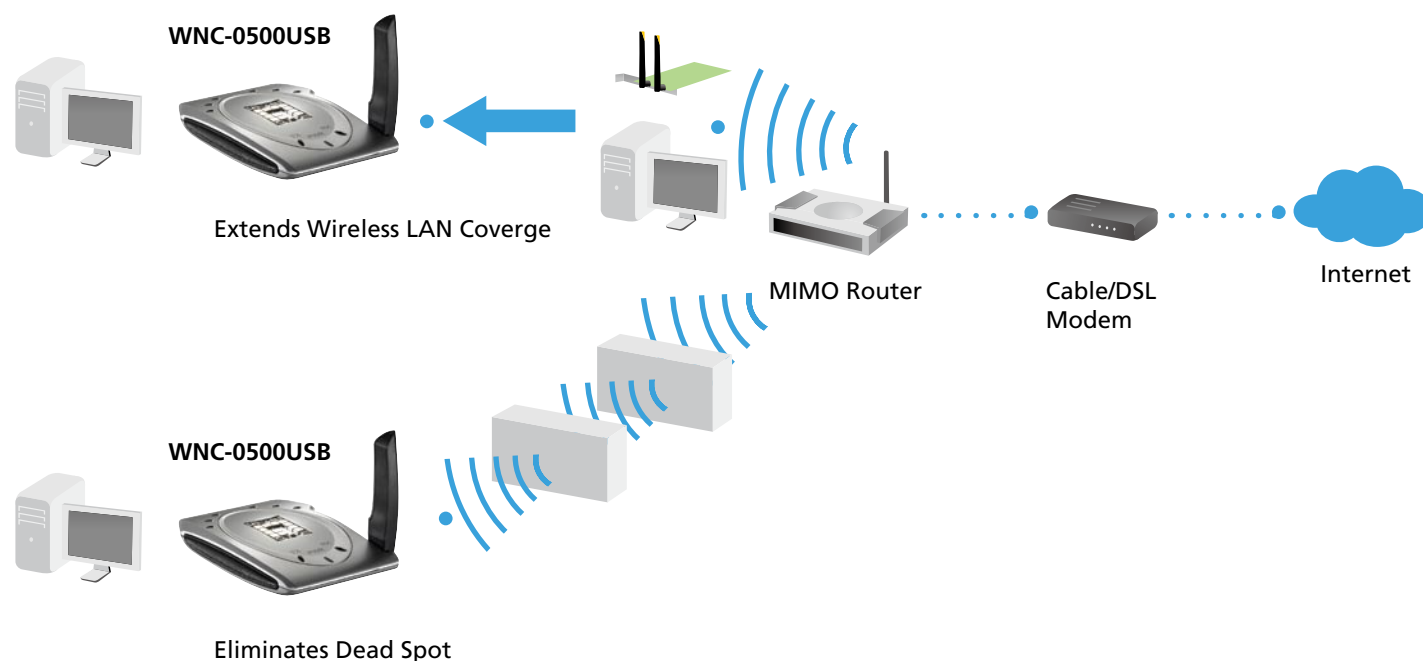
#### Dimensions

100mm(L) x 65mm(W) x 15mm(H)

### Certifications

CE,FCC

## Product Diagram



### Order Information

**WNC-0500USB:** MIMO Wireless USB Adapter

### Package Contents

WNC-0500USB

USB to Mini USB Extension Cable

Quick Installation Guide

CD Manual/Driver/Utility