

## MIMO Wireless PCMCIA Adapter

With its revolutionary wireless technology, the **LevelOne** WPC-0500 MIMO (Multi-input, Multi-Output) wireless PCMCIA Adapter and other MIMO products allows you to access totally superior wireless connections. This adapter is equipped with PCMCIA Cardbus 32-bit user-friendly interface thus enabling high-bandwidth data transfers between adapter and your laptop computer.

**Compatible with Proven Technology** -- Based on proven technology, our WPC-0500 is backward compatible with IEEE 802.11g and IEEE 802.11b for faster data transfer rates. There is no need to replace your existing wireless device to realize the advantages of MIMO technology thus protecting your original investment.

**Improved Wireless Throughput** -- In order to create a solid wireless connection, LevelOne WPC-0500 consistently and quickly boosts your WLAN throughput to meet the requirements of streaming videos, VoIP applications, gaming and large file sharing functions. When the card is connected to the standard 11g or 11b APs or routers, it can perform much better than client's current units.

**Greater Wireless Signal Coverage** -- With MIMO technology, this card enables you to connect to wireless networks at farther distances than before. The unit has two internal antennas for signal reception and one for high power signal transmissions. Not only is the connection distance enhanced, but also "dead spots" in the network are reduced.

**Tough Wireless Security Protection** -- For WLAN security issues, this card supports 64/128-bit WEP data encryption that protects your wireless network from eavesdropping. It also supports a WPA (Wi-Fi Protected Access) feature that combines IEEE 802.1x and PSK (Pre-Shared Key), TKIP (Temporal Key Integrity Protocol) technologies. Furthermore, this card supports WPA2 that provides a stronger encryption mechanism through AES (Advanced Encryption Standard), which is a requirement for some corporate and government users.



**WPC-0500**

### Related Products



**WNC-0500**

MIMO Wireless PCI Card



**WBR-5400**

MIMO Wireless Broadband Router

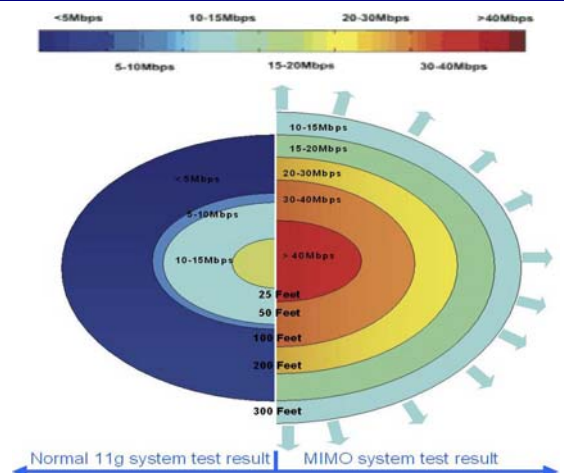


**WAP-0010**

MIMO Wireless Access Point

## Key Features

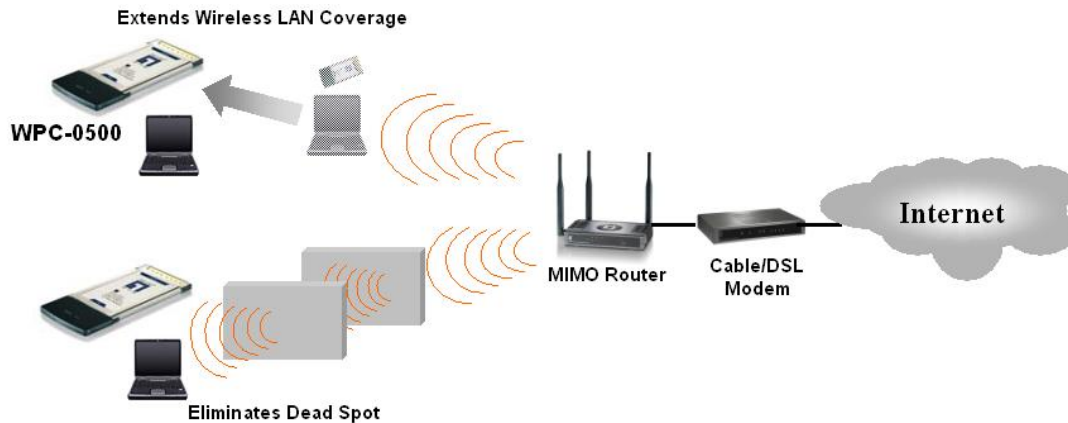
- Backward Compatible with IEEE 802.11b/g Standards
- Provides Stable Throughput and Improves Wireless Coverage
- Mitigate Dead Spots and Provides Robust Connection
- Cost Optimized MIMO Solution
- Supports 32-bit Cardbus interface
- Supports WMM, enhanced multi-media support
- Supports 64/128-bit WEP Encryption, WPA, 802.1x, WPA2 (Windows 2000/XP Only)
- Supports Popular OS Including: Windows™ 98SE/ME/2000/XP



## Technical Specification

- **Standard Conformance**  
IEEE802.11b/g,
- **Bus Type**  
32-bit Cardbus
- **Frequency Band**  
2.4000~2.4835GHz
- **Media Access Control**  
CSMA/CA with ACK
- **Data Transfer Rate**  
802.11g up to 54 Mbps (6/9/12/18/24/36/48/54 Mbps)  
802.11b up to 11Mbps (1/2/5.5/11 Mbps)
- **Modulation**  
OFDM with BPSK, QPSK, 16QAM, 64QAM(11g), BPSK, QPSK, CCK
- **Antenna**  
Multiple Internal Smart Antenna with Two RX and One TX
- **Transmit Power**  
16dBm ± 2dBm
- **Receive Sensitivity**  
54Mbps OFDM, 10% PER, -79dBm  
11Mbps CCK, 8% PER, -90dBm  
1Mbps BPSK, 8% PER, -95dBm
- **Range**  
Indoor: approx. 35~200 meters  
Outdoor: approx. 100~400 meters
- **Security**  
64/128-bit WEP Data Encryption,  
WPA (TKIP, with IEEE 802.1x)  
WPA2 (Windows 2000/XP Only)
- **LEDs**  
Link, Activity
- **Drivers**  
Windows 98SE/ME/2000/XP
- **Temperature**  
Operating Temperature: 0~55°C
- **Humidity**  
Operating Humidity: Max. 95%(non-condensing)
- **Dimensions**  
54mm(D) \*118 mm (W) \* 8mm(H)
- **Certification**  
FCC, CE

## Product Diagram



## Ordering Information

- WPC-0500: MIMO Wireless PCMCIA Adapter