



WL-8313

## 54Mbps standard 11g PCI Bus Wireless LAN Adapter

Complying with the newly approved 802.11g standard, WL-8313 provides a faster wireless connection for desktop users who want to access network resources. The gadget delivers data at speeds up to 54Mbps, 5 times data rate than 802.11b. It can operate in Infrastructure mode or Ad-hoc mode based on your needs.

WL-8313 provides 360 degrees' coverage of wireless access by employing a detachable dipole antenna, which can be replaced with any types of external antennas to better signal strength, link quality and enhance signal coverage range. Support of 64 and 128-bit WEP encryption plus WPA (Wi-Fi Protected Access) high-level encryption keeps your wireless network from unauthorized access and ensures secure data transfer.

WL-8313 is backward compatible with 802.11b products, allowing interoperability with any Wi-Fi certified wireless 802.11b/g products. Support of most operating systems such as Windows98SE/ME/2000/XP/Server 2003 offers greater scalability and usability. Now with it you can enjoy the fun of seamless wireless connection!

### ▶▶ KEY FEATURE

- 2.4GHz ISM band, unlicensed operation
- Wireless connection without the hassles and cost of running cables
- IEEE 802.11b/g standard compliant
- Up to 54Mbps data rate
- Utilization of Direct Sequence Spread Spectrum plus OFDM modulation to provide a robust, interference-resistant solution in a multi-user environment
- One detachable dipole antenna
- Support of 64/128-bit WEP encryption and WPA (Wi-Fi Protected Access)-PSK high-level encryption
- Support of Ad-Hoc / Infrastructure mode
- Seamless integration with IEEE 802.3 Ethernet through any other IEEE 802.11b/g compliant Access points
- Support of most popular operating systems including Windows 98SE/ME/2000/XP/Server 2003
- Support of Power Save mode

▶▶ SPECIFICATION

Product	54Mbps standard 11g PCI Bus Wireless LAN Adapter	
Model	WL-8313	
Attachment Interface	PCI V2.2	
LED Indicators	LINK/ACT	
Operating Frequency / Channel	2.412~2.462GHz (FCC, USA & Canada) / 11 Channels 2.412~2.472GHz (ETSI, Europe) / 13 Channels 2.412~2.4835GHz (TELEC, Japan) / 14 Channels	
Emission type	Direct Sequence Spread Spectrum (DSSS) Technology	
RF Modulation	OFDM with CCK, BPSK, QPSK, 16QAM, 64QAM	
RF Output Power	13-15dBm	
Data Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps	
Antenna	One Detachable Dipole Antenna	
Sensitivity	IEEE802.11b: 1, 2 Mbps (BPSK, QPSK): - 90 dBm      5.5 Mbps (CCK+QPSK): - 87 dBm 11 Mbps (CCK+QPSK): -84 dBm (Typically @PER < 8% packet size 1024 and @25°C + 5°C) IEEE802.11g: 54Mbps (64QAM): -70dBm      48Mbps (64QAM): -71dBm 36Mbps (16QAM): -75dBm      24Mbps (16QAM): -79dBm 18Mbps (QPSK): -82dBm      12Mbps (QPSK): -84dBm 9Mbps (BPSK): -85dBm      6Mbps (BPSK): -86dBm (Typically @PER < 10% packet size 1024 and @25°C + 5°C)	
Working Mode	Infrastructure, Ad-Hoc	
Power	3.3V±5%	
Power Consumption	802.11g: TX: 550mA,      RX: 330mA Standby: 300mA 802.11b: TX: 580mA      RX: 350mA Standby: 300mA	
Dimension (mm)	120x 65 x 5 mm	
Humidity	5-95%, non-condensing (Operating and storage)	
Temperature	0 - 55 degree C (Operating), -10~70 degree C (Storage)	
Compatibility	Windows 98SE/ME/2000/XP/Server 2003	
Management	Utility or Windows XP/Server 2003 Wireless Zero configuration Utility	
Electromagnetic Compatibility	FCC , CE	

▶▶ APPLICATIONS

WL-8313 offers a fast, reliable, and cost-effective solution for wireless access to the various network scenarios:

- Remote access to the corporate network for information**  
E-mail, file transfer, or terminal service.
- Difficult-to-wire environments**  
Old or historical buildings, public occasions, venues and open area where it is difficult to wire.
- Frequently changing environments**  
Factories, retailers, and offices that frequently change locations and rearrange the workplace.
- Temporary network access**  
Events, exhibitions, construction sites or some important occasions that require temporary network access.
- SOHO (Small Office and Home Office) users**  
SOHO users in need of easy-to-install and wide coverage networking.

▶▶ ORDERING INFORMATION

- ▶ **WL-8313**      54Mbps standard 11g PCI Bus Wireless LAN Adapter



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