



WL-8310

54/108Mbps Standard 11g PCI Bus Wireless LAN Adapter

The WL-8310 is an IEEE 802.11g Wireless PCI card that can operate in either Ad-Hoc mode (Point to Point/Point to Multipoint without an Access Point) or Infrastructure mode (Point to Point/Point to Multipoint with an Access Point). IEEE 802.11g uses 2.4GHz frequency band, the same as IEEE 802.11b; but it provides almost 5 times throughput rate than 802.11b. With the latest innovative Super G technology integrated, the maximum data rate of WL-8310 is 108Mbps, which doubles the speed of standard 802.11g. WL-8310 is also backward compatible and interoperable with IEEE 802.11b compliant wireless devices. This dual-standard support allows for greater flexibility of deployment and use.

The WL-8310 is provided with a detachable dipole antenna that can be replaced with optional external antennas to obtain better signal quality and greater connection distances.

The WL-8310 supports both 64/128-bit WEP (Wired Equivalent Privacy) and Wi-Fi Protected Access (WPA) for securing wireless network connections. The driver and utility supports most popular operating systems: Windows 98SE/ME/2000/XP/Server 2003. With advanced features and high performance capability, the WL-8310 is an excellent choice for constructing a wide range of wireless solutions.

▶▶ KEY FEATURE

- ☐ Fully compliant with wireless LAN IEEE 802.11g and 802.11b standards
- ☐ Wireless connection without the difficulty and cost of cabling
- ☐ Dual-standard capability: 802.11g and 802.11b compliant
- ☐ Super G mode provides up to 108Mbps data rate
- ☐ Based on 2.4GHz Direct Sequence Spread Spectrum (DSSS) Technology
- ☐ Support 64/128-bit WEP (Wired Equivalent Privacy) and Wi-Fi Protected Access (WPA)
- ☐ Support Ad-Hoc (Peer to Peer) communication and Infrastructure mode with Access Point
- ☐ Seamless integration with IEEE 802.3 LAN through any IEEE 802.11b or 802.11g compliant Access Point
- ☐ Support most popular operating systems including Windows 98/Me/2000/XP/Server 2003
- ☐ One detachable dipole antenna
- ☐ Low Interference and High Susceptibility Guarantee Reliable Performance
- ☐ Support Power Save mode
- ☐ Support PCI standard v2.2
- ☐ Support eXtended Range mode

Product	54/108Mbps Standard 11g PCI Bus Wireless LAN Adapter
Model	WL-8310
Attachment Interface	PCI V2.2
LED Indicators	Steady for power on; blink for WLAN link/act
Operating Frequency / Channel	2.412~2.462GHz (FCC, USA & Canada) / 11 Channels 2.412~2.4835GHz (TELEC, Japan) / 14 Channels 2.412~2.472GHz (ETSI, Europe) / 13 Channels
RF Modulation	Direct Sequence Spread Spectrum (DSSS) Technology (OFDM, CCK, QPSK, BPSK)
RF Output Power	16-18dBm (typical)
Sensitivity	802.11g: -72dBm @ PER<8%, 54 Mbps 802.11b: -82dBm @ PER<8%, 11 Mbps
Data Rate	Super G: Up to 108Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps with auto-rate fall back 802.11b: 11, 5.5, 2, 1 Mbps with auto-rate fall back
Media Access Protocol	CSMA/CA + ACK
Antenna	One detachable dipole antenna
Working Mode	Ad-Hoc, Infrastructure
Power	3.3 / 5 Volt
Dimension (mm)	133 x 121 x 22 mm
Humidity	0-95%, 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 built-in management interface
Electromagnetic Compatibility	FCC Part 15 class B, CE Mark, ETS 300 328

►► APPLICATIONS

WL-8310 offers a fast, reliable, cost-effective solution for wireless client access to the network in applications like these :

- ☐ **Remote access to corporate network information**
E-mail, file transfer and terminal emulation.
- ☐ **Difficult-to-wire environments**
Historical or old buildings, asbestos installations, and open areas where wiring is difficult to employ.
- ☐ **Frequently changing environments**
Retailers, manufacturers and banks who frequently rearrange the workplace and change locations.
- ☐ **Temporary LANs for special projects or peak time**
Trade shows, Sports events, exhibitions and construction sites need temporary setup for a short time period. Retailers, airline and shipping companies need additional workstations for a peak period. Auditors requiring workgroups at customer sites.
- ☐ **SOHO (Small Office and Home Office) users**
SOHO users requiring quick and easy installation of a small computer network.
- ☐ **High security connection**
Wireless network security installs quickly and provides the flexibility to reconfigure easily.

►► ORDERING INFORMATION

- **WL-8310** 54/108Mbps Standard 11g PCI Bus Wireless LAN Adapter



PLANET Technology Corp.

11F, No. 96, Min Chuan Road, Hsin Tien, Taipei, Taiwan, R.O.C.
TEL:886-2-2219-9518 FAX:886-2-2219-9528
E-mail: sales@planet.com.tw http://www.planet.com.tw
VoIP Gateway : vip.planet.com.tw

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