802.11g Wireless MIMO PCI Adapter

With MIMO technology, WML-8315 enables you to connect to wireless networks at farther distances than before. WML-8315 has two antennas for signal reception and one antenna for high power signal transmission. Not only the connection distance is enhanced, but also the "dead spots" in the network will be reduced. For WLAN security issues, WML-8315 supports 64/128-Bit WEP / WPA and WPA2 data encryption that protect your wireless network from eavesdropping.

In order to meet the multimedia data bandwidth requirement, IEEE 802.11e Quality of Service (QoS) (The Wi-Fi Alliance defined WMM as a profile of the IEEE 802.11e) extensions for 802.11 networks will help to define the priorities of the data traffics by the data categories to provide enhanced multimedia support. The WML-8315 supports the advanced technology for sure.

WML-8315 supports higher data throughput than the IEEE 802.11g standard (up to 54Mbps). It supports specific ways to increase the data transfer rate at a time; compress the data and decrease the waiting time to send the next data to the Routers or APs. This feature is called Turbo Mode. When the card is connecting to the Routers or APs with the proprietary feature, the wireless network will be more effective.

Key Feature

- Works with both IEEE 802.11b and IEEE 802.11g products
- Farther coverage, less dead spaces and higher throughput with MIMO technology
- Supports Turbo Mode to enhance the data transfer speed within the specific wireless network (the connected AP must support Turbo mode as well)
- Supports WMM (WiFi Multi-Media) function to meet the multi-media data bandwidth requirement (the connected AP and the application must support WMM as well)
- Supports 64/128-Bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x) functions for high level of security
- Supports CCX 2.0 (Cisco Compatible Extensions) for the radio monitoring and fast roaming
- Automatic fallback increases data security and reliability
- Supports the most popular operating system: Windows 98SE/Me/2000/XP and Server 2003
- Supports PCI v2.2 interface

Specification

Product	802.11g Wireless MIMO PCI Adapter
Model	WML-8315
Interface	Complaint with PCI v2.2 standard
Standards Conformance	Compliant with 802.11b/802.11g
Data Transfer Rate	11b: 1/2/5.5/11Mbps (auto sensing) 11g: 6/9/12/18/24/36/48/54Mbps (auto sensing)
Operating Mode	Infrastructure Mode, Ad-Hoc Mode
Security	64/128-Bit WEP Data Encryption, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x)
RF Modulation	11g: OFDM with BPSK, QPSK, 16-QAM, 64QAM 11b: BPSK, QPSK, CCK
Media Access Protocol	CSMA/CA
Antenna	3 x Dipole Antenna
Output Power	18dBm±2dB
LED Indicators	ACT, LNK
Operating systems	Windows 98/Me/2000/XP and Server 2003
Temperature	Operating: 0 ~ 55 Degree C Storage: -20 ~ 70 Degree C
Operating Humidity	Operating: 10% to 90% Non-Condensing Storage: 5% to 95% Non-Condensing
Dimensions (L x W x H)	134 x 120 x 21 mm
Weight	82g
Certifications	FCC, CE

Applications

Infrastructure

For some environments with limitations on running Ethernet cables around, simply install the WML-8315 on your desktop or laptop, and users thus can get connected to the wired Ethernet through a wireless access point to access the network resources within the coverage of wireless signals. The installation of multiple access points to enlarge the coverage of wireless signals and can ensure seamless network access for mobile users.

Ad-Hoc

Need connecting several desktop PC or notebooks wirelessly? Configuring all the wireless adapters to Ad-Hoc mode without wireless access point is the easiest and costly way to meet this demand.

Ordering Information

WML-8315	802.11g Wireless MIMO PCI Card

PLANET Technology Corporation
11F, No. 96, Min Chuan Road, Hsin Tien, Taipei, Tawian R.O.C.
Tel: 886-2-2219-9518 Fax: 886-2-2219-9528
Email: sales@planet.com.tw www.planet.com.tw
VoIP Gateway: vip.planet.com.tw