WL-8305

22Mbps Wireless PCI Card

WL-8305 for PCI standard version 2.2 compliant desktop PCs, is fully compatible with IEEE 802.11b standard and supporting higher data rate up to 22Mbps. It can operate in either Ad-Hoc mode (Point to Point/Point to Multipoint without Access Point) or Infrastructure mode (Point to Point/Point to Multipoint with Access Point). The frequency band WL-8305 operates is 2.4GHz unlicensed ISM band in the home or office environment.

Provided with a detachable dipole antenna, you can replace original antenna with other external antenna to get better signal quality and longer connection distance.

The WL-8305 is compatible with Windows 98, Me, 2000 and XP. It supports 64/128-bit and 256-bit WEP (Wired Equivalent Privacy) Encryption for securing wireless network connection. It's data rate support 22, 11, 5.5, 2 and 1 Mbps. The 22Mbps data rate is designed by the Packet Binary Convolution Code (PBCC) modulation technique. With its auto-fallback function, the data rate can be move to lower speed if signal quality is not good enough.

▶▶ Key Feature

- 2.4GHz ISM band, unlicensed operation
- Wireless connection without the hassles and cost of cabling
- Wireless LAN IEEE 802.11b compliant
- Up to 22Mbps data rate with CSMA/CA. In 22Mbps mode, provides up to 20% faster data transfer rate than 11Mbps wireless device
- Utilize Direct Sequence Spread Spectrum (DSSS) Technology and support the modulation of PBCC mode to provide robust, interference-resistant solution in a multi-user environment
- Working range up to 300 feet indoor and 1100 feet outdoor
- Support Ad-Hoc / Infrastructure mode
- Seamless integration with IEEE 802.3 LAN through WAP-1960, WAP-1965 or other IEEE 802.11b compliant Access Point
- Supports most popular operating systems including Windows 98/Me/2000/XP
- Support one detachable antenna
- Plug-and -Play installation
- Support PCI standard v2.2

Product	22Mbps Wireless PCI Card
Model	WL-8305
Attach Interface	PCI 2.2 compliant
LED Indicators	Power/Act
Operating Frequency / Channel	2.412~2.462GHz (FCC, Canada) / 11 Channels
	2.412~2.4835GHz (Japan, TELEC) / 14 Channels
	2.412~2.472GHz (Euro ETSI) / 13 Channels
RF Modulation	Direct Sequence Spread Spectrum (DSSS) Technology(PBCC, CCK, DQPSK, DBPSK)
RF Output Power	18dBm
Sensitivity	-83dBm (@ PER<8%)
Data Rate	22,11, 5.5, 2, 1 Mbps with auto-rate fall back
Media Access Protocol	CSMA/CA + ACK
Standard Antenna	Detachable dipole antenna with reverse-polarity SMA connector
Range	Up to 1100 feet outdoor and 300 feet indoor
Working Mode	Ad-Hoc, Infrastructure
Power Consumption	TX: 3.3V, 650mA
	RX: 3.3V, 350mA
	Stand by / sleep mode: 3.3V, 20mA
Dimension (mm)	133 x 121 x 22 mm
Humidity	0-90%, non-condensing (Operating and storage)
Temperature	0~50 degree C (Operating), -20~70 degree C(Storage)
Compatibility	Windows 98, Me, 2000 and XP
Management	Utility or Windows XP built-in management interface
STANDARDS COMPLIANCE	
Electromagnetic Compatibility	FCC Part 15 class B, CE Mark, ETSI 300 328

▶▶ APPLICATIONS

☐ *Infrastructure*

WL-8305 provides access to a wired LAN for wireless workstations. An integrated wireless and wired LAN is called an Infrastructure configuration. An Infrastructure configuration extends the accessibility of a WL-8305 equipped PC to a wired LAN, and doubles the effective wireless transmission range for 2 WL-8305 PCs. Since the Access Point is able to forward data within its Basic Service Set, the effective transmission range in an infrastructure LAN is doubled.

☐ *Ad-hoc*

An Ad-Hoc wireless LAN is a group of computers, each equipped with one WL-8305 adapter or other wireless adapters, connected as an independent wireless LAN. Computers in a specific Ad-Hoc wireless LAN must be configured to share the same radio channel.Ad-Hoc wireless LAN configurations are appropriate for branch level departments or SOHO operations.

▶▶ ORDERING INFORMATION

▶ **WL-8305** 22Mbps Wireless PCI Adapter

PLANET Technology Corp.

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