802.11n Wireless PCI Express Adapter

Addressing on the demand of high WLAN performance, PLANET introduces the 802.11n wireless PCI Express adapter – WNL-9500. With the PCI Express Bus Architecture, the WNL-9500 provides more efficient than the network cards based on 32/64bit PCI architecture. Integrating the latest innovative 802.11n technology, the maximum data rate of WNL-9500 is up to 300Mbps which is almost six times of standard G. Featuring smart antenna technology, the 802.11n design helps combat distortion and interference, so the WNL-9500 can send its data stream with greater distances and be more reliable.

The WNL-9500 provides a feature rich wireless connectivity. It supports WMM to maintain stable quality of multimedia by granting high priority for such packets. For security, the WNL-9500 supports the most advanced mechanism, WPA2, to protect the information exchange through wireless. Moreover, in order to simplify the security configurations, WPS (Wi-Fi Protected Setup) is enhanced in WNL-9500. There are two types of WPS, Push-Button Configuration (PBC) and PIN code (key Wireless adapter card pin number). This design helps inexperienced users to secure their wireless network quickly and easily.

The driver and utility support most popular operating systems, Windows 2000 / XP and Vista. With advanced features and high performance capability, the WNL-9500 is an excellent choice for constructing a wide range of wireless solutions.
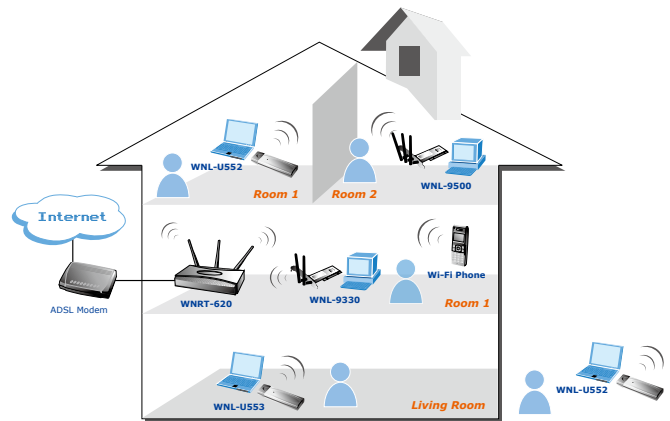
KEY FEATURES

- Compliant with PCI Express 1.0a - x1 PCI Express standard
- 2.4GHz ISM band, unlicensed operation
- Supports Wi-Fi Protected Setup (WPS) utility and hardware button
- Compliant with IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (draft 2.0)
- 802.11n provides up to 300Mbps data rate
- Supports WPA/WPA2 high-level security mechanisms
- Supports Software AP mode
- 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)
- Support of Power Save mode
- High-efficiency antenna expands the scope of wireless network
- Support of most popular operating systems including Windows 2000 / XP / 2003 server and Vista
- Smart Antenna Technology with 2 transmitted and 3 received antennas

WNL-9500

APPLICATIONS

Home Networking

PLANET makes your home networking easiler and more compact with 802.11n solution. Via setting up the WNRT-620 in the center of house, its wide coverage and stable quality will make strong impression to users. Installing WNL-9500 to user's desktop offers the 100Mbps* wire speed without any wire constraint. From now on, users can surf the web, enjoy multimedia streaming, share files, and make VoIP calls wirelessly without any limitation.

*Actual data throughput is varied. Network conditions and environmental factors include volume of network traffic, building materials and construction and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

SPECIFICATION

Product	802.11n Wireless PCI Express Adapter
Model	WNL-9500
Interface	PCI Express 1.0a – x1 PCI Express
Standards Conformance	Compliant with 802.11b / 802.11g / 802.11n (draft 2.0)
Data Transfer Rate	IEEE 802.11b: 11/5.5/2/1M IEEE 802.11g: 54/48/36/24/18/12/9/6 IEEE 802.11n: 300/270/243/240/216/180/162/120/108Mbps in 40Mhz mode 145/130/117/104/78Mbps in 20Mhz mode
Operating Mode	Infrastructure Mode, Ad-Hoc Mode
Security	WEP 64/128bit, WPA, WPA2, WPA-PSK, WPA2-PSK
RF Modulation	802.11b: DSSS, CCK, QPSK, BPSK 802.11g: OFDM 802.11n: 64QAM, 16QAM, QPSK, BPSK
Media Access Protocol	CSMA / CA
Output Power	11b mode: 14-16dBm 11g mode: 14-16dBm 11n mode: 12-14dBm
LED Indicators	Tx/Rx, Link
Channels	2.412~2.462GHz (FCC, Canada) /11 Channels 2.412~2.4835GHz (Japan, TELEC) /14 Channels 2.412~2.472GHz (Euro ETSI) /13 Channels
Management	Built-in utility or Windows XP Zero Configuration utility
Operating Systems	Windows 2000 / XP / 2003 server / Vista
Environmental and Mechanical Characteristics	
Temperature	Operating: 0 - 55 Degree C Storage: -20 - 70 Degree C
Operating Humidity	Operating: 0 ~ 85% Storage: 0 ~ 95% Non-Condensing
Dimension (W x D)	120 × 45 mm (Non-Bracket)
Weight	60g
Certifications	FCC, CE

ORDERING INFORMATION

WNL-9500	802.11n Wireless PCI Express Adapter

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