



UGL2430-VP

Wireless-N Express PCI Adapter

Delivers Faster Speed and Farther Range for Wireless Connection



FEATURES

- IEEE 802.11n (draft) up to 300Mbps Wi-Fi compliant
- Fully backward compatible with IEEE802.11g/b
- Supports 32-bit PCI Rev.2.1/2.2/2.3 bus interface
- MIMO technology increase up to 4x farther coverage
- Delivers 12x faster speed than IEEE802.11b/g
- Seamless roaming among 802.11n/g/b networks
- Operation at 2.4 ~ 2.5GHz frequency ISM band to meet worldwide regulations
- Support 64/128-bit WEP (Wired Equivalent Privacy)
- Supports advance network security of 802.1X/WPA, WPA-PSK, TKIP/AES, WPA2, WPA2-PSK
- Supports advance WMM (Wi-Fi MultiMedia) function
- Quick setup wizard and Web based user interface for easy management and configuration
- Supports Ad-Hoc (Peer to Peer) communication and Infrastructure mode with Access Point
- Supports most popular operating systems including Windows 2000/ XP/ XP x64/ Vista
- Convenience site survey function and profiles
- Suitable for Desktop PC

Package Contents

- One Wireless-N PCI Adapter
- One Setup Utility CD-ROM
- Three External Detachable Antennas

OVERVIEW

Up to 300Mbps with 12 times faster speed Wireless-N PCI Adapter is an advanced IEEE 802.11n (draft) compatible, high performance, wireless PCI adapter that is fully backward compatible with IEEE802.11g/b standards. Therefore, it is an ideal device for home and SOHO networking to a share high speed internet connection, files, printers, and multimedia communications with the flexibility, speed and security you need.

The Wireless-N PCI Adapter installs in most desktop or server and lets you put your computer almost anywhere in the building. In order to solve weakness of wireless signal problem, enhanced MIMO technology enables you to very easily extend the range of your wireless network up to 4 times farther wireless range than regular IEEE802.11b/g standard.

This Wireless-N PCI Adapter comes with software drivers for the most popular Microsoft Windows operating systems and can be integrated into a larger network, running Windows XP, 2000, Vista in either Ad Hoc mode (without an Access Point) or Infrastructure mode (with an Access Point).

WEP encryption and Wi-Fi Protected Access (WPA), and further enhanced with 802.1x authentication security. With drivers and utility available for most commonly used Windows OS. The 2.4GHz 802.11n/g/b Wireless-N PCI Adapter is a truly solid-design networking device that provides you with the ultimate freedom of wireless networking anywhere.

A setup wizard is provided as the part of the web configuration utility. You can simply follow the step-by-step process to get your wireless-N PCI adapter configuration ready to run in few easy steps.

SPECIFICATIONS

Wireless LAN Specifications	
Wireless Standards	IEEE802.11n (draft) IEEE 802.11g IEEE 802.11b
Host Interface	32-bit PCI Rev.2.3 interface
Data Rate	802.11n: up to 300Mbps 802.11g: 54 / 48 / 36 / 24 / 18/ 12 / 9 / 6 Mbps auto fallback 802.11b: 11 / 5.5 / 2 / 1 Mbps auto fallback
Frequency Band	2.4GHz ISM (Industrial Scientific Medical) Band
Chipset	Ralink RT2860 + RT2820
RF Frequency	2412 ~ 2462 MHz (North America) 2412 ~ 2472 MHz (Europe) 2412 ~ 2484 MHz (Japan)
Radio Channel	1 ~ 14 channels (Universal Domain Selection)
Range Coverage	Outdoor: 100 ~ 300 meters (depends on environment) Indoor: 35 ~ 100 meters (depends on environment)
Antenna type	Three Detachable Antennas
Roaming	Full mobility and seamless roaming from cell to cell
RF Output Power	14 ~17 dBm (Typical)
Modulation	11n: BPSK, QPSK, 16QAM, 64QAM with OFDM 11g: BPSK, QPSK, 16QAM, 64QAM, OFDM 11b: DQPSK, DBPSK, DSSS, CCK
Data Security	64/128-bit WEP Encryption WPA, WPA-PSK, WPA2, WPA2-PSK. TKIP/AES
Network	Auto-switch to use 802.11n or 802.11g or 802.11b mode Supports Ad-Hoc, Infrastructure WLAN network Wireless roaming Data rate auto fall-back under noisy environment or longer range distance Site Survey with Profile function
Configuration & Management	Plug-and-Play setup and installation Management Utility supports 2000 / XP/ Vista
Media Access Control	CSMA/CA with ACK
LED Indicator	Link/Act
Operating System	Windows 2000 / XP / XP x64 / Vista
Weight	50g
Dimension	120 (L) x 65 (W) x 15 (H) mm (PCBA)
Environment	Operating Temperature: 0°C to 55°C Storage Temperature: -20°C to 75°C Operating Humidity: 10% ~ 90% (Non Condensing) Storage Humidity: 5% ~ 95% (Non Condensing)
Compliant	FCC (USA) CE Mark (Europe) RoHS Compliant Wi-Fi Compliant

APPLICATION DIAGRAM

Infrastructure Mode Application Diagram



The AP Router (AP) establishes an infrastructure mode for networking between all wireless clients and Ethernet resources.

Wireless Ad-hoc Application Diagram



The wireless Ad-hoc mode is established by several wireless clients, which have the same SSID and radio channel. The wireless USB/PCI/PC Card adapters can be used for such peer-to-peer communication mode.

Authentication with 802.1x and RADIUS Server



When wireless station accessing the network, the AP router provide 802.1x support to check with RADIUS authentication Server to authorize user's access.

ORDERING INFORMATIONS

Model	Description
UGL2430-VP	300Mbps Wireless-N 32-bit PCI Adapter

EUSSO Technologies, Inc. is a dedicated data communication and networking company. With professional experiences in design, production, marketing and service support, we deliver the full range networking products including Gigabit Ethernet, Fiber Optic, Wireless LAN, Switches, Hubs, LAN cards, PCMCIA adapters, Converter, Transceivers. As well as Internet Telephony Gateway, Print Servers, Internet Sharing Servers and many others.

2008/4/2 ver 2.0



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