



## UGL2430-VP2 (2T2R)

### Wireless-N Express PCI Adapter

Delivers Faster Speed and Farther Range for Wireless Connection



#### FEATURES

- Wi-Fi IEEE 802.11n for up to 300Mbps data rate
- Supports 2TX, 2Rx Wireless data transmit & receive
- Fully backward compatible with IEEE802.11g/b
- Supports 32-bit PCI Rev.2.1/2.2/2.3 bus interface
- 11n MIMO technology provides farther coverage and delivers faster speed than IEEE802.11b/g
- Seamless roaming among 802.11n/g/b networks
- Support 64/128-bit WEP wireless data encryption
- Supports advance network security of WPA (TKIP with IEEE802.1x), WPA2 (AES with IEEE802.1x)
- Supports WMM (Wi-Fi MultiMedia), WMM-PS, and WMM-SA (IEEE802.11e QoS Standard) functions
- Quick setup wizard and Web based user interface for easy management and configuration
- Supports Ad-Hoc (Peer to Peer) communication mode and Infrastructure mode with Access Point
- Supports most popular operating systems including Win 7, 2000, XP, XP64, Vista, 2003, Linux, MAC OS
- Supports Cisco CCX V1.0, V2.0 and V3.0 compliance

#### Package Contents

- One Wireless-N PCI Adapter
- One Setup Utility CD-ROM
- Two External Detachable Antennas
- One Quick Installation Guide (OIG)

#### OVERVIEW

Up to 300Mbps faster speed data rate, UGL2430-VP2 is a Wireless-N PCI Adapter with IEEE 802.11n Wi-Fi compatible that is fully backward compatible with IEEE802.11g/b standards. Therefore, it is an ideal device for home and SOHO networking to 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 3 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 Win 7, XP, Vista OS 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.

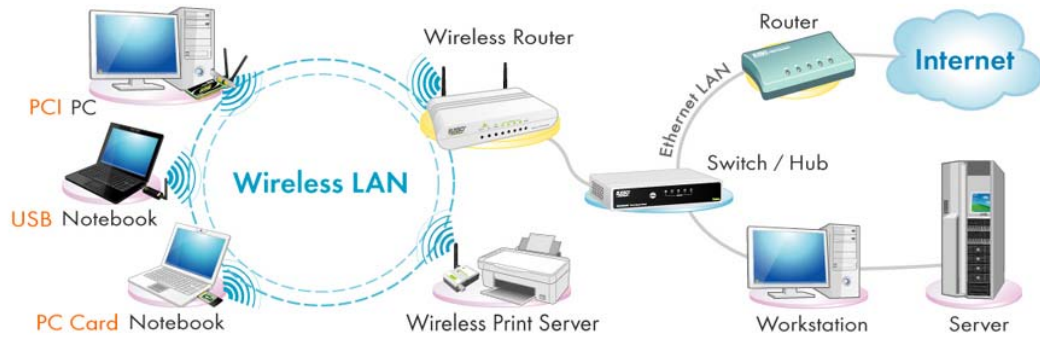
A setup wizard is provided as the part of the web configuration utility. You can simply follow the step-by-step process to get your wireless-N PCI adapter configuration ready to run in few easy steps.

**SPECIFICATIONS**

<b>Wireless LAN Specifications</b>	
<b>Wireless Standards</b>	IEEE802.11n IEEE 802.11g IEEE 802.11b
<b>Ethernet Standards</b>	IEEE802.113 and 3u 10/100Mbps All Ethernet ports support auto-crossover (MDI/MDI-X)
<b>Host Interface</b>	32-bit PCI interface
<b>Data Rate</b>	802.11n (40MHz): up to 300Mbps, MCS0-15, 32 with Half Guard Interval Support 802.11n (20MHz): up to 144Mbps, MCS0-15, 32 with Half Guard Interval Support 802.11g: 54 / 48 / 36 / 24 / 18/ 12 / 9 / 6 Mbps auto fallback 802.11b: 11 / 5.5 / 2 / 1 Mbps auto fallback
<b>Frequency Band</b>	2.4GHz ISM (Industrial Scientific Medical) Band
<b>Chipset</b>	Ralink RT2860+ RT2820
<b>RF Frequency</b>	2.4000 ~ 2.4835GHz ( Industrial Scientific Medical Band )
<b>Radio Channel</b>	1 ~ 14 channels (Universal Domain Selection)
<b>Antenna type</b>	Two Detachable Antennas
<b>Roaming</b>	Full mobility and seamless roaming from cell to cell
<b>RF Output Power</b>	16dBm ± 2dBm
<b>Modulation</b>	11n: BPSK, QPSK, 16QAM, 64QAM with OFDM 11g: BPSK, QPSK, 16QAM, 64QAM, OFDM 11b: DQPSK, DBPSK, DSSS, CCK
<b>Security &amp; Features</b>	64/128-bit WEP Encryption WPA, WPA-PSK, WPA2, WPA2-PSK, TKIP/AES, 802.1x WPS (Wi-Fi Protection Setup) push botton IEEE802.11e QoS Cisco CCX V1.0, V2.0 & V3.0 Compliance Wi-Fi Alliance WMM (Wi-Fi Multimedia Enhancement) Support Hardware-Based Priority Queues Support Software AP
<b>Network</b>	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
<b>Media Access Control</b>	CSMA/CA with ACK
<b>LED Indicator</b>	Link, Act
<b>Operating System</b>	Windows 7, 2000, XP, XP64, Vista, 98SE, ME, 2003, Linux, MAC OS (Driver can download from Ralink Website Directly)
<b>Weight</b>	95g (with 2 Antennas)
<b>Dimension</b>	122 (L) x 65 (W) x 20 (H) mm
<b>Environment</b>	Operating Temperature: 0°C to 40°C Storage Temperature: -20°C to 70°C Operating Humidity: 10% ~ 95% (Non Condensing) Storage Humidity: 10% ~ 90% (Non Condensing)
<b>Compliant</b>	FCC (USA) CE Mark (Europe), LVD RoHS Compliant Wi-Fi Compliant

**APPLICATION DIAGRAM**

**Infrastructure Mode Application Diagram**



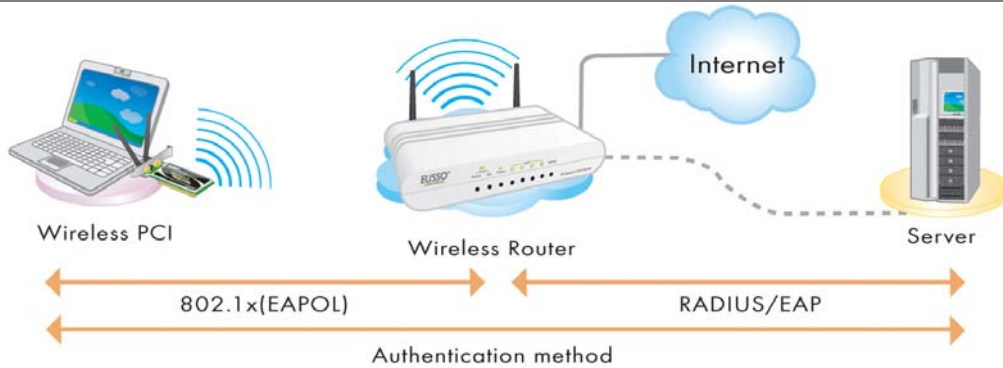
The AP Router establishes an infrastructure mode for networking between all wireless clients and Ethernet resources.

**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-VP2	300Mbps Wireless-N 32-bit PCI Adapter (2T2R)

*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.*

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