



## UGL2430-U2H2 (1T2R)

### Wireless-N Express USB 2.0 Adapter

Delivers Faster Speed and Farther Range for Wireless Connection



#### FEATURES

- Wi-Fi compliant with IEEE 802.11n standard for up to 300Mbps receiver & 150Mbps transmit data rate.
- Fully backward compatible with IEEE802.11g / 11b
- Supports high speed USB 2.0/1.1/1.0 bus interface
- 1T2R MIMO technology improves wireless coverage
- Provides Wi-Fi Protected Setup (WPS) push button for easy establishment of wireless network secure
- Delivers 9x faster speed than IEEE802.11b/g
- Seamless roaming among 802.11n/g/b networks
- Operation at 2.4 GHz frequency ISM band
- Support 64/128-bit WEP (Wired Equivalent Privacy)
- Supports advance network security of WEP, 802.1X, WPA/WPA2-PSK, WPA/WPA2-EAP, AES, TKIP, WPS
- 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 Windows 7, 2003, 2000, XP (86,64), Vista (86,64), Me, Mac 10.4 & 10.5, Linux KERNEAL v2.6
- Convenience site survey function and profiles

#### Package Contents

- One Wireless-N USB Adapter
- One Setup Utility CD-ROM
- Quick Installation Guide (QIG)

#### OVERVIEW

Up to 300Mbps downlink and 150Mbps uplink faster wireless speed, UGL2430-U2H2 is a Wireless-N USB Adapter with IEEE 802.11n 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 USB Adapter installs in most desktop or notebooks 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 USB Adapter comes with software drivers for the most popular Microsoft Windows operating systems and can be integrated into a larger network, running Windows, Mac, Linux 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 USB 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 USB adapter configuration ready to run in few easy steps.

**SPECIFICATIONS**

<b>Wireless LAN Specifications</b>	
<b>Wireless Standards</b>	IEEE 802.11n ( e & i ) IEEE 802.11g IEEE 802.11b
<b>Host Interface</b>	High speed USB2.0/1.1 interface
<b>Data Rate</b>	802.11n: up to 300Mbps (Receiver) and 150Mbps (Transmit) 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>	RTL8191SU
<b>RF Frequency</b>	2412 ~ 2484 MHz
<b>Spread Spectrum</b>	IEEE 802.11b : DSSS (Direct Sequence Spread Spectrum) IEEE 802.11g/n: OFDM (Orthogonal Frequency Division Multiplexing)
<b>Radio Channel</b>	1 ~ 14 channels (Japan) 1 ~ 13 channels (ETSI, European Countries) 1 ~ 11 channels (North America) 1 ~ 9 channels (France Outdoor) 3 ~ 9 channels (Israel) 10 ~ 11 channels (Mexico)
<b>Operation Range</b>	Indoor : up to 100 meters Outdoor : up to 280 meters
<b>Antenna type</b>	Integrated Antenna
<b>Power Consumption</b>	Transmit : around 380mA Receive : around 250mA
<b>RF Output Power</b>	<14dBm@11n, <14dBm@11g, <17dBm@11b
<b>Receiver Sensitivity</b>	11Mbps -80dBm@8% ; 54Mbps -70dBm@10% ; 300Mbps -64dBm@10%
<b>Modulation</b>	11n: BPSK, QPSK, 16QAM, 64QAM with OFDM 11g: BPSK, QPSK, 16QAM, 64QAM, OFDM 11b: DQPSK, DBPSK, DSSS, CCK
<b>Data Security</b>	64/128-bit WEP Encryption WPA, WPA-PSK, WPA2, WPA2-PSK, TKIP/AES WPS Button ( Wi-Fi Protected Setup )
<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>LED Indicator</b>	Power
<b>Operating System</b>	Windows XP(86/64), Vista(86/64), Me, 2000, 2003, Win 7, Mac10.4 & 10.5, Linux KERNEAL V2.6
<b>Weight</b>	10g (net)
<b>Dimension</b>	52.3 (L) x 24.4 (W) x 9.9 (H) mm
<b>Environment</b>	Operating Temperature: 0°C to 50°C Storage Temperature: -10°C to 70°C Humidity: 5% ~ 90% (Non Condensing)
<b>Compliant</b>	CE Mark (Europe) RoHS Compliant Wi-Fi Compliant

**APPLICATION DIAGRAM**

**Infrastructure Mode Application Diagram**



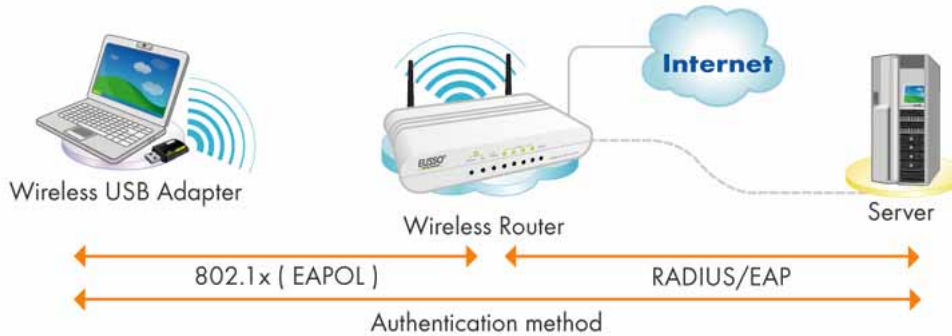
The AP Router establishes an infrastructure mode for networking between all wireless clients and Ethernet resources to the Internet.

**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-U2H2	300/150Mbps Wireless-N USB2.0 Adapter (1T2R)

*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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