



## UGL2454-01XR

### 108Mbps Wireless-G 32-bit PC Card

#### Linking Your Notebook with Super-G Wireless Network



#### FEATURES

- Wi-Fi compliant with IEEE 802.11g and 802.11b
- Complies with 32-bit Cardbus Type II Interface
- eXtended Range (XR) Technology for better wireless signal coverage
- High performance Super G mode up to 108Mbps data transfer rate for 802.11g Turbo function
- Supports 64/128-bit WEP wireless data encryption
- Supports advance network security of 802.1X/WPA, WPA-PSK, TKIP/AES, WPA2, WPA2-PSK
- Supports Ad-Hoc (Peer to Peer) communication and Infrastructure mode with Access Point
- 2.4GHz ISM band, no license required for operation
- Support Worldwide Radio Domain
- Quick setup wizard and Web based user interface for easy management and configuration
- Supports most popular operating systems including Windows 98SE / Me / 2000 / XP
- Integrated microstrip dual diversity antenna for multi-path environment
- Range Coverage: Indoor 35 ~ 100 meters  
Outdoor: 100 ~ 300 meters

#### Package Contents

- One Wireless-G 32-bit PC Card
- One Setup Utility CD-ROM (Driver/Manual/Utility)

#### OVERVIEW

The UGL2454-01XR is a 54Mbps Wireless 32-bit Cardbus adapter with Atheros Super-G mode to enhance a maximum wireless speed up to 108Mbps data transfer rate. It supports Ad-Hoc ( peer-to-peer ) communication and Infrastructure mode with Access Point. Therefore, it is an ideal device for home and SOHO networking with high speed internet connection with the flexibility, speed and security you need.

This Wireless-G Cardbus Adapter comes with software drivers for the most popular Microsoft Windows operating systems and can be integrated into a larger network, running Windows XP, Windows 2000, Windows ME, Windows 98SE, in either Ad Hoc mode (without an Access Point) or Infrastructure mode (with an Access Point).

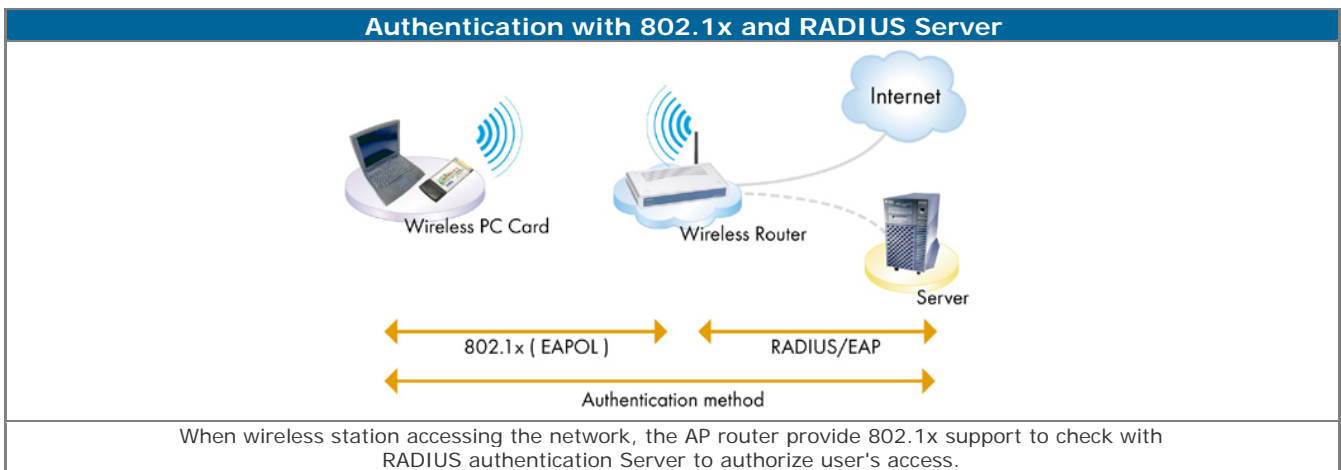
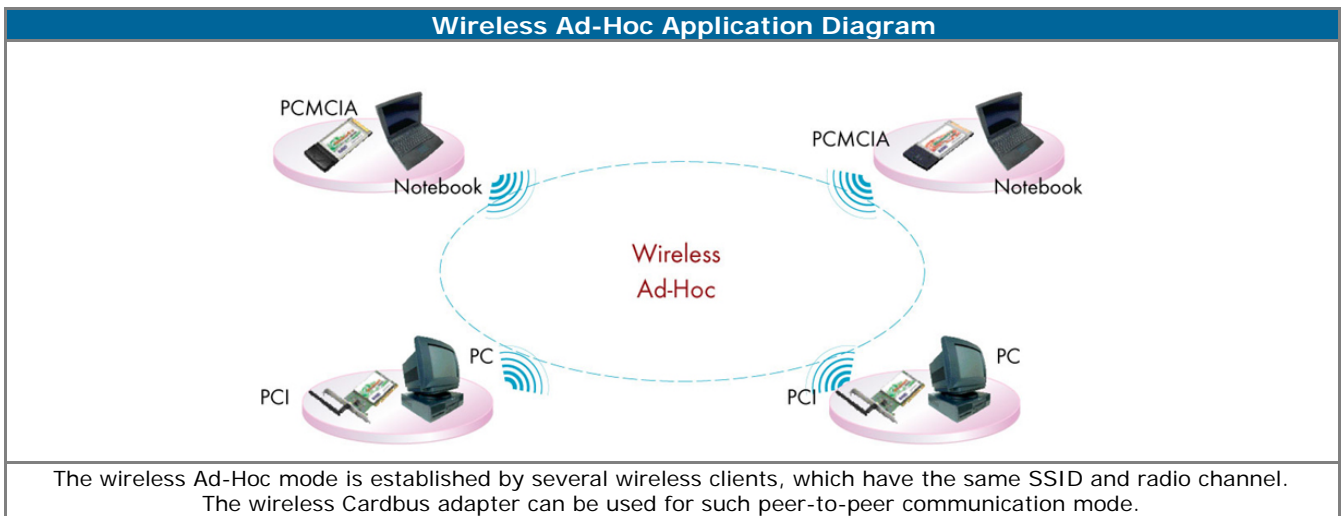
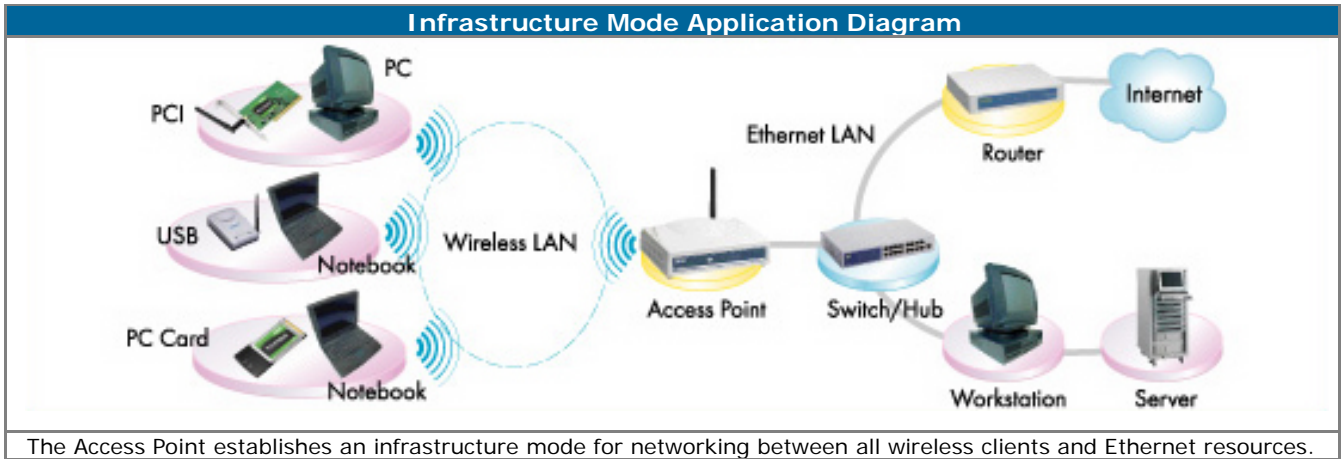
The UGL2454-01XR features Wi-Fi Protected Access (WPA) and 64/128-bit WEP Encryption to provide an enhanced level of security for wireless data communications. It also includes advanced security features such as WPA2 and AES to keep your wireless connection safe from unauthorized access. With drivers and utility available for most commonly used Windows OS. The 2.4GHz 802.11g/b Wireless Cardbus 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 PC Card configuration ready to run in few easy steps by clicking on the "Wizard" button on the function menu.

**SPECIFICATIONS**

| Wireless LAN Specifications |  |
|-----------------------------|--|
| Wireless Standards          | IEEE 802.11g,<br>IEEE 802.11b  |
| Host Interface              | 32-bit Type II Cardbus compliant   |
| Data Rate                   | Atheros Super-G mode up to 108Mbps<br>802.11g: 54 / 48 / 36 / 24 / 18/ 12 / 9 / 6 Mbps auto fallback<br>802.11b: 11 / 5.5 / 2 / 1 Mbps auto fallback   |
| Frequency Band              | 2.4GHz ISM (Industrial Scientific Medical) Band  |
| RF Frequency                | 2412 ~ 2462 MHz (North America)<br>2412 ~ 2472 MHz (Europe)<br>2412 ~ 2484 MHz (Japan)   |
| Radio Channel               | 1 ~ 11 channels (North America)<br>1 ~ 13 channels (Europe)<br>1 ~ 14 channels (Japan)   |
| Range Coverage              | Outdoor: 100 ~ 300 meters<br>Indoor: 35 ~ 100 meters   |
| Antenna type                | Internal microstrip dual diversity antenna   |
| Roaming                     | Full mobility and seamless roaming from cell to cell   |
| RF Output Power             | 16 – 18 dbm (typical)  |
| Receiver Sensitivity        | 54Mbps OFDM, 10% PER, -68dBm<br>11Mbps CCK, 8% PER, -86dBm<br>6Mbps OFDM, 10% PER, -88dBm<br>1Mbps BPSK, 8% PER, -92dBm  |
| Data Security               | WPA, WPA-PSK ( Wi-Fi Protected Access Pre-Shared Key ), WPA2, WPA2-PSK<br>64/128-bit WEP Encryption /Decryption  |
| Network                     | Auto-switch to use 802.11g or 802.11b mode<br>Supports Ad-Hoc, Infrastructure WLAN network<br>Wireless roaming<br>Data rate auto fall-back under noisy environment or longer range distance<br>Site Survey with Profile function |
| Configuration & Management  | Plug-and-Play setup and installation<br>Management Utility supports Win98SE / ME / 2000 and XP   |
| Media Access Control        | CSMA/CA with ACK   |
| LED Indicator               | Power, Link Status   |
| Operating System            | Windows 98SE / Me / 2000 / XP  |
| Weight                      | 35g (Net)  |
| Dimension                   | 118 (L) x 54 (W) x 7 (H) mm  |
| Environment                 | Operating Temperature: 0°C to 55°C (32~131°F)<br>Storage Temperature: -10°C to 70°C (32~162°F)<br>Operating Humidity: 10% ~ 90% (Non Condensing)<br>Storage Humidity: 10% ~ 95% (Non Condensing)                                 |
| Compliant                   | FCC Class B (USA)<br>CE Mark (Europe)<br>Wi-Fi Compliant   |

**Application Diagram**



**ORDERING INFORMATIONS**

| Model        | Description   |
|--------------|---|
| UGL2454-01XR | 108Mbps Wireless-G 32-bit PC Card ( with Super-G Mode ) |

*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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