

## UGL2454-01A



### 54/108Mbps Wireless-G Cardbus Linking your notebook with Super G

#### FEATURES

- Dual standards IEEE 802.11g and 802.11b compliant
- Connecting Cardbus of Windows notebook to Wireless without the difficulties and cost of cabling
- High performance Super G mode up to 108Mbps data transfer rate for 802.11g Turbo function
- Based on 2.4GHz Direct Sequence Spread Spectrum (DSSS) Technology
- Supports 64/128-bit WEP (Wired Equivalent Privacy) and Wi-Fi Protected Access (WPA)
- Supports Ad-Hoc (Peer to Peer) communication and Infrastructure mode with Access Point
- Supports most popular operating systems including Windows 98/Me/2000/XP/Server 2003
- Supports Power Save mode
- Supports Cardbus standard
- Build-in diversity antenna for compact PC Card design

#### OVERVIEW

The 54/108Mbps Wireless-G Cardbus Adapter is an advanced IEEE 802.11g/b compatible, high performance, wireless card that supports data transfer speeds of up to 54 Mbps or 108Mbps in 802.11g and Super G modes.

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).

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 802.11g/b Wireless Cardbus Adapter is a truly solid-design networking device that provides you with the ultimate freedom of wireless networking anywhere.

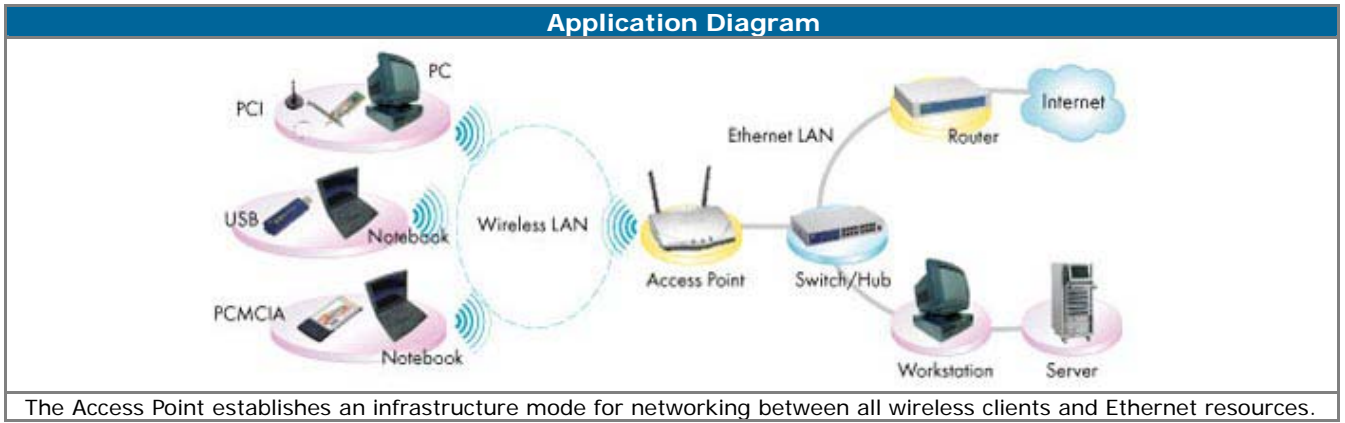
## SPECIFICATIONS

Wireless LAN Specifications	
Wireless Standards	IEEE 802.11g, IEEE 802.11b
Data Rate	802.11g: 54 / 48 / 36 / 24 / 18/ 12 / 9 / 6 Mbps auto fallback 802.11b: 11 / 5.5 / 2 / 1 Mbps auto fallback Up to 108Mbps when Super G enabled
Frequency Band	2.4GHz ISM (Industrial Scientific Medical) Band
RF Frequency	2412 ~ 2462 MHz (North America) 2412 ~ 2472 MHz (Europe) 2412 ~ 2484 MHz (Japan)
Radio Channel	1 ~ 11 channels (North America) 1 ~ 13 channels (Europe) 1 ~ 14 channels (Japan)
Antenna type	Built-in diversity patch antenna, 2dBi gain (max.)
RF Output Power	15dBm ± 2dB
Receiver Sensitivity	54Mbps OFDM, 10% PER, -68dBm 11Mbps CCK, 8% PER, -82dBm 6Mbps OFDM, 10% PER, -88dBm 1Mbps BPSK, 8% PER, -89dBm
Data Security	WPA-WiFi Protected Access (64,128, 152-bit WEP with TKIP, MIC, IV Expansion, Shared Key Authentication)
Modulation Type	Orthogonal Frequency Division Multiplexing (OFDM) Complementary Code Keying (CCK)
Media Access Control	CSMA/CA with ACK
Compliant	FCC Part 15 Class B (USA) ETSI, CE (Europe) WiFi Compliant

Software Specifications	
Network	Auto-switch to use 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
Data Security	64, 128, 152-bit WEP (Wired Equivalent Privacy) Encryption 802.1x: WPA - Wi-Fi Protected Access (64-,128-WEP with TKIP, MIC, IV Expansion, Shared Key Authentication)
Configuration & Management	Plug-and-Play setup and installation Management Utility supports Win98SE/ME/2000 and XP

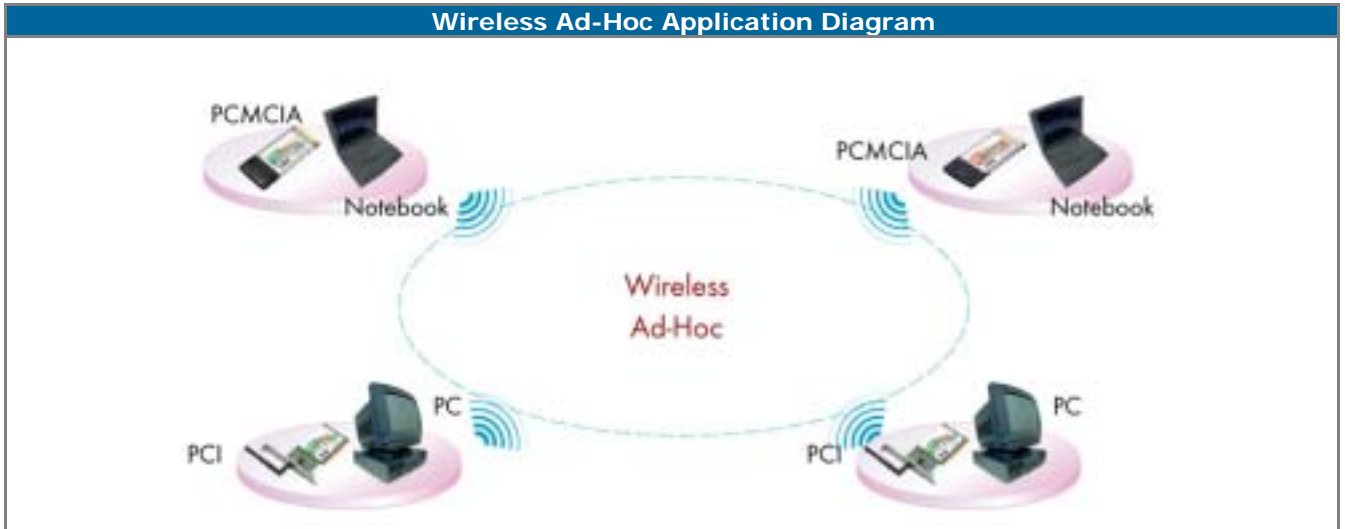
Hardware Specifications	
Host Interface	PC Cardbus 32 bit compliant
Standards	IEEE 802.11g, IEEE802.11b
Frequency Band	2.4GHz Industrial Scientific Medical (ISM) Band
Modulation	11g: BPSK, QPSK, 16 QAM, 64 QAM, OFDM 11b: DQPSK, DBPSK, DSSS, CCK
Data Rate	54/48/36/24/18/12/11/9/6/5.5/2/1Mbps auto fallback
Data Security	64/128/152-bit WEP Data Encryption
Media Access Control	CSMA/CA with ACK
LED Indicator	Power, Network
Antenna Type	Internal diversity antenna
Operating System	Windows 98SE / Me / 2000 / XP
Output Power	Transmitter: 15dBm ± 2dB
Dimension	114(L) x 54(W) x 8.7(H) mm
Environment	Temperature: 0°C to 55°C (32~131°F) Humidity: Max. 95% (Non Condensing)

**Application Diagram**



The Access Point 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 Cardbus adapter can be used for such peer-to-peer communication mode.

**ORDERING INFORMATIONS**

Model	Description
UGL2454-01A	54/108Mbps Wireless-G Cardbus 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.*

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