

GL2454-01



54Mbps Wireless Cardbus Adapter Dual Standards for IEEE 802.11g and IEEE 802.11b

FEATURES

- Fully IEEE 802.11g (draft) and 802.11b standards compliant.
- Highly efficient design mechanism to provide unbeatable performance achieving data rate up to 54 Mbps for 802.11g (draft) and 11 Mbps for 802.11b with wide range coverage
- Strong network security with 802.1x, Wi-Fi Protected Access (WPA) and WEP encryption
- Auto-switch between the two standards, IEEE 802.11b and g (draft) that the corresponding networking device is using.
- Driver/Utility supports most commonly used operating systems including Windows 98SE/ME/NT/2000/XP and Linux

OVERVIEW

The highly efficient 2.4GHz 802.11g/b Wireless Network PC Cardbus is designed to meet the needs of wireless clients who connect to 2.4GHz standard network products. With the Dual-Standard capability, this Wireless Network PC Cardbus automatically switches to the proper modulation, i.e. OFDM, CCK and etc., supported by one of the two standards, IEEE 802.11b or g(draft), that the corresponding wireless networking device is using.

The Wireless PC Cardbus offers unbeatable performance of data rates up to 54 Mbps for 802.11g(draft) and 11 Mbps for 802.11b, while maintaining wide range of area coverage.

Wireless network security is protected with standard 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 including Windows XP, the setup and installation can be easily managed. The 2.4GHz 802.11g/b Wireless Network PC Cardbus is a truly solid-design networking device that provides you with the ultimate freedom of wireless networking anywhere.

SPECIFICATIONS

Wireless LAN Specifications	
Standards	Wireless: IEEE 802.11b, 802.11g (draft) PC Card Standard v7.0
Data Rate	802.11g (draft): Up to 54Mbps (6/9/12/18/24/36/48/54) 802.11b: Up to 11Mbps (1/2/5.5/11)
Antenna type	Built-in diversity patch antenna, 2dBi gain (max.)
Emission Type	DSSS
RF Frequency	2412 ~ 2462 MHz (North America) 2412 ~ 2472 MHz (General Europe) 2412 ~ 2484 MHz (Japan)
Radio Channel	1 ~ 11 channels (North America) 1 ~ 13 channels (General Europe) 1 ~ 14 channels (Japan)
Output Power	16 – 18 dbm (typical)
Sensitivity for 802.11b	1, 2 Mbps (BPSK): - 90 dBm 5.5 Mbps (QPSK): - 86 dBm 11 Mbps (CCK): -82 dBm (typically @PER < 8% packet size 1024 and @25°C +/- 5)
Sensitivity for 802.11g (draft)	54 Mbps: -72 dbm 48 Mbps: - 72 dbm 36 Mbps: -76 dbm 24 Mbps: -79 dbm 18 Mbps: -82 dbm 12 Mbps: -86 dbm 9 Mbps: -89 dbm 6 Mbps: -90 dbm (typically @PER < 8% packet size 1024 and @25 +/- 5)
Frequency Stability	Within +/- 25 ppm
Data Modulation Type	BPSK, QPSK, CCK and OFDM (BPSK/QPSK/16-QAM/64-QAM)

Software Specifications	
Network	Auto-switch to use 802.11g (draft) 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
Security	WEP 64/128 802.1x security (MD5 and TLS) in Windows XP
Configuration & Management	Plug-and-Play setup and installation Management Utility supports Win98SE/ME/2000 and XP

Hardware Specifications	
Interface	PC Cardbus 32 bit compliant
Chipset	Radio: AR2111 + AR5111 MAC/BBP: AR5212
LED	Power/Status: steady green Wireless: steady green for WLAN ready, blink for WLAN Link/Act
Power	3.3 Volt +/- 5%
Power Consumption	802.11g (draft): TX 650mA, RX 400mA, Standby 20mA 802.11b: TX 600mA, RX 350mA, Standby 20mA
Dimension	119 X 54 X 12 mm
Operating Environment	Temperature: 0 - 55 ; Humidity 5%-70% non-condensing
Storage Environment	Temperature: -20 - 65 ; Humidity 0%-95% non-condensing
Regulation	Wireless: Wi-Fi US: FCC part 15 class B, Sec. 15.247, 15.109 Europe: ETS 300 328, ETS 301 489-1&17, and CE mark, EN 60950, EN 55022 Class B, EN 50082-1 1998 Other: VCCI, Telec/JATE (Japan)

ORDERING INFORMATIONS

Model	Description
GL2454-01	54Mbps Wireless 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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