

GL2454-VP



54Mbps Wireless PCI Card Dual Standards for IEEE 802.11g and IEEE 802.11b

FEATURES

- Fully IEEE 802.11g and 802.11b standards compliant
- Highly efficient design mechanism to provide unbeatable performance achieving data rate up to 54 Mbps for 802.11g 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 11g 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 PCI is designed to meet the needs of those wireless clients who connect to 2.4GHz standard wireless networking devices. With the Dual-Standard capability, this Wireless Network PCI automatically switches to the modulation methods, i.e. OFDM, CCK and etc supported by one of the two standards, IEEE 802.11b or 11g that the corresponding wireless networking device is using.

The Wireless PCI Device offers unbeatable performance of data rates up to 54 Mbps for 802.11g 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.

Alternate external antenna kit model is also available. The 2.4GHz 802.11g/b Wireless Network PCI card 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 PCI Standard v2.2
Data Rate	802.11g: Up to 54Mbps (6/9/12/18/24/36/48/54) 802.11b: Up to 11Mbps (1/2/5.5/11)
Antenna type	Single Dipole Antenna, 1.5dBi gain
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°C)
Sensitivity for 802.11g	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°C +/- 5°C)
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 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	PCI Standard v2.2
Chipset	Radio: AR2111 + AR5111 MAC/BBP: AR5212
LED	Steady for Power on, Blink for WLAN Link/Act.
Power	3.3 / 5V Volt +/- 5%
Power Consumption	802.11g: TX 650mA, RX 400mA, Standby 20mA 802.11b: TX 600mA, RX 350mA, Standby 20mA
Dimension	115 x 65 mm PCB size
Operating Environment	Temperature: 0o- 55 ; Humidity 5%-70% non-condensing
Storage Environment	Temperature: -20o- 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-VP	54Mbps Wireless PCI Card

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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