EUSSO

Quality Networks

UGL2454-VPK

54Mbps Wireless-G 32-bit PCI Adapter

Linking Your PC with Express Wireless Turbo Mode

32bit PCI | **Turbo Mode** | **2.4 GHz** | **54 Mbps** | **WEP 64/128** | **WPA 802.1x** | **AES 802.1x** | **Vista Driver**

OVERVIEW

The 54Mbps Wireless-G 32-bit PCI Adapter is an advanced IEEE 802.11g/b compatible, high performance, wireless card that supports data transfer speeds of up to 54 Mbps or up to 72Mbps with turbo mode to enhance the maximum speed of wireless connection.

There is also integrated with a built-in infrastructure mode. Therefore, it is an ideal device for home and SOHO networking to a share high speed internet connection, files, printers, and multimedia communications with the flexibility, speed and security you need.

This Wireless-G PCI 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, Windows Vista 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 PCI Adapter is a truly solid-design networking device that provides you with the ultimate freedom of wireless networking anywhere.
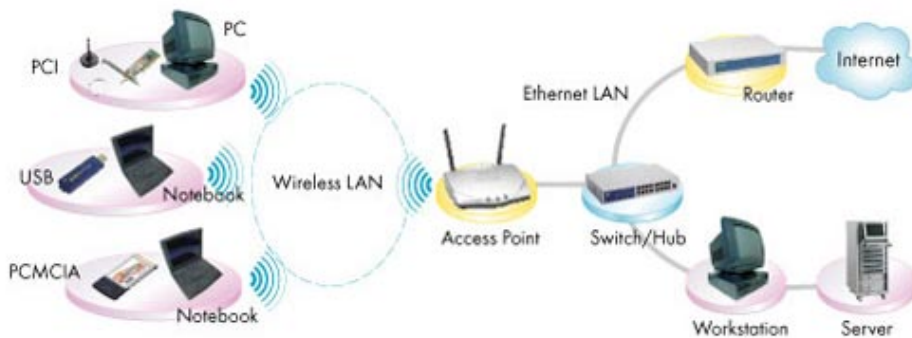
A setup wizard is provided as the part of the web configuration utility. You can simply follow the step-by-step process to get your wireless PCI Adapter configuration ready to run in few easy steps by clicking on the "Wizard" button on the function menu.

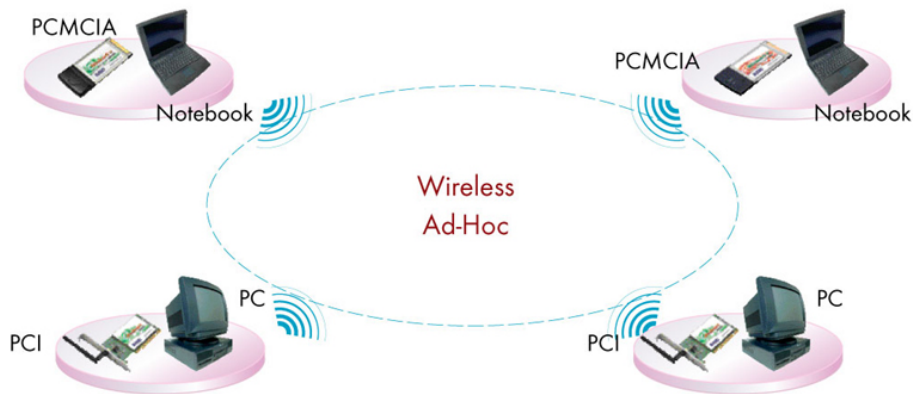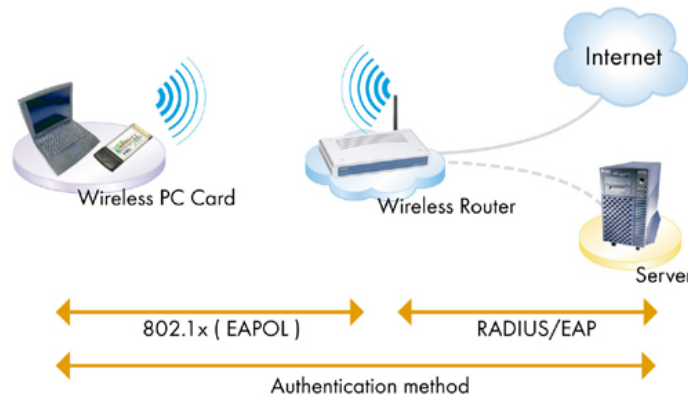| Wireless LAN Specifications	
Wireless Standards	IEEE 802.11g, IEEE 802.11b
Host Interface	PCI revision 2.2
Data Rate	802.11g: 54 / 48 / 36 / 24 / 18/ 12 / 9 / 6 Mbps auto fallback 802.11b: 11 / 5.5 / 2 / 1 Mbps auto fallback Up to 72Mbps when Turbo Mode enabled
Frequency Band	2.4GHz ISM (Industrial 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)
Range Coverage	Outdoor: 100 ~ 300 meters Indoor: 35 ~ 100 meters
Antenna type	External Detachable SMA 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 11Mbps CCK, 8% PER, -86dBm 6Mbps OFDM, 10% PER, -88dBm 1Mbps BPSK, 8% PER, -92dBm
Data Security	WPA-PSK (Wi-Fi Protected Access Pre-Shared Key) 64/128-bit WEP Encryption /Decryption
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
Configuration & Management	Plug-and-Play setup and installation Management Utility supports Win98SE/ME/2000/XP and Vista
Media Access Control	CSMA/CA with ACK
LED Indicator	Link (Green)
Operating System	Windows 98SE / Me / 2000 / XP / Vista
Weight	46g (1.6 oz)
Dimension	152 (L) x 122 (W) x 22 (H) mm
Environment	Operating Temperature: 0^oC to 40^oC (32~104°F) Storage Temperature: -10^oC to 70^oC (32~162°F) Operating Humidity: 10% ~ 90% (Non Condensing) Storage Humidity: 10% ~ 90% (Non Condensing)
Compliant	FCC Part15.247 (USA) CE Mark, ETS300, 328 (Europe) VCCI Class B, Wi-Fi Compliant

Infrastructure Mode 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.

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
UGL2454-VPK	54Mbps Wireless-G 32-bit PCI Adapt with Turbo 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.

2008/11/07 ver 2.0