



UGL2454-U2Z

54Mbps Wireless-G USB Adapter

Linking Your Computer with 54Mbps Wireless LAN



FEATURES

- Wi-Fi compliant with IEEE 802.11g/b, 2.4GHz
- Supports USB 2.0/1.1/1.0 bus interface
- 54/48/36/24/18/12/11/9/6/5.5/2/1Mbps data rate
- 64/128/256-bit WEP (Wired Equivalent Privacy); WPA (Wi-Fi Protected Access), WPA2
- Supports advance network security of 802.1X/WPA, WPA-PSK, TKIP/AES, WPA2, WPA2-PSK
- Supports WMM (Wi-Fi MultiMedia) function
- Quick setup wizard and Web based user interface for easy management and configuration
- Supports Ad-Hoc (Peer to Peer) communication and Infrastructure mode with Access Point
- Supports most popular operating systems including Windows 98SE/Me/2000/XP/XP x64/Vista/ Mac10.3 & 10.4/Linux
- Build-in diversity antenna for compact design
- 5 Times Faster and Interoperate with Existing Wireless-B Equipment Seamlessly
- Site survey function and profiles
- Suitable for Notebook or Desktop PC
- Range Coverage: Indoor 35 ~ 100 meters
Outdoor: 100 ~ 300 meters

Package Contents

- One Wireless-G USB Adapter
- One Quick Installation Guide
- One Setup Utility CD-ROM

OVERVIEW

The Wireless-G USB Adapter installs in most desktop or notebooks and lets you put your computer almost anywhere in the building, without the cost and hassle of running network cables.

The 54Mbps Wireless-G USB Adapter is an advanced IEEE 802.11g/b compatible, high performance, wireless card that supports data transfer speeds of up to 54 Mbps. 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 USB Adapter comes with software drivers for the most popular Microsoft Windows operating systems and can be integrated into a larger network, running Windows XP, 2000, ME, 98SE, Mac 10.3 or above, and Linux 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 USB 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, IEEE 802.11b
Host Interface	USB2.0 Type A
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
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	On board chip antenna
Roaming	Full mobility and seamless roaming from cell to cell
RF Output Power	14 – 17 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) 64/128/256-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, Mac10.3 or above, and Linux
Media Access Control	CSMA/CA with ACK
LED Indicator	Link/Active (Green)
Operating System	Windows 2000 / XP / XP x64/ Vista/ Mac 10.3 or above / Linux Kernel2.4.X, 2.6.X, RedHatv<2.4>, Fedoro<2.6>
Weight	9.6g
Dimension	58 (L) x 23 (W) x 9 (H) mm
Environment	Operating Temperature: 0°C to 40°C (32~104°F) Storage Temperature: -10°C to 70°C (32~162°F) Operating Humidity: 10% ~ 90% (Non Condensing) Storage Humidity: 10% ~ 90% (Non Condensing)
Compliant	FCC Part15B/C B (USA) CE Mark (Europe) Wi-Fi Compliant

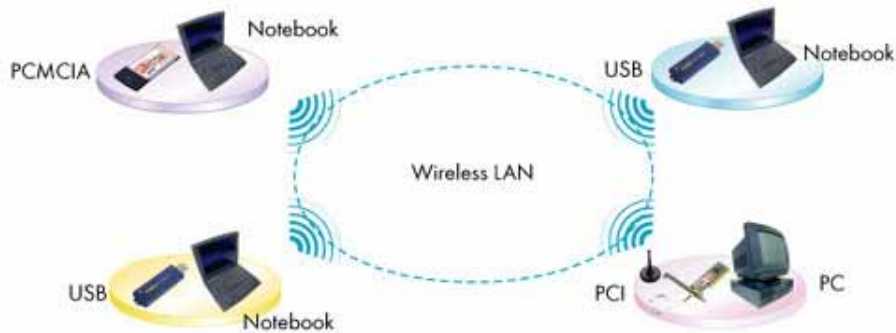
Application Diagram

Infrastructure Mode Application Diagram



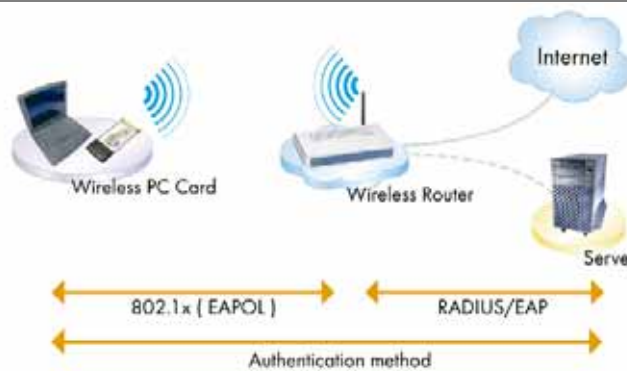
The Access Point establishes an infrastructure mode for networking between all wireless clients and Ethernet resources.

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 USB/PCI/PC Card adapters 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-U2Z	54Mbps Wireless-G USB Adapter (Zydax 1211B Chipset)

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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