

ENLWI-G2 802.11g Wireless LAN Adapter

User's Guide

Regulatory notes and statements

Wireless LAN, Health and Authorization for use

Radio frequency electromagnetic energy is emitted from Wireless LAN devices. The energy levels of these emissions however are far much less than the electromagnetic energy emissions from wireless devices like for example mobile phones. Wireless LAN devices are safe for use frequency safety standards and recommendations. The use of Wireless LAN devices may be restricted in some situations or environments for example:

- ·On board of airplanes, or
- ·In an explosive environment, or
- ·In case the interference risk to other devices or services is perceived or identified as harmful

In case the policy regarding the use of Wireless LAN devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please ask for authorization to use these devices prior to operating the equipment.

Regulatory Information/disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The Manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, of the substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by

turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

SAR compliance has been established in typical laptop computer(s) with CardBus slot, and product could be used in typical laptop computer with CardBus slot. Other application like handheld PC or similar device has not been verified and may not compliance with related RF exposure rule and such use shall be prohibited.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

EN 60 950-1: 2001 +A11: 2004

Safety of Information Technology Equipment

EN 50392: 2004-01

Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz - 300 GHz)

EN 300 328 V1.7.1 (2006-10)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1 V1.6.1: (2005-09)

Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17 V1.2.1 (2002-08)

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 - 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

€0560**©**

Česky [Czech]	Encore Electronics, Inc. tímto prohlašuje, že tento 802.11g Wireless LAN Adapter je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Dansk [Danish]	Undertegnede Encore Electronics, Inc. erklærer herved, at følgende udstyr 802.11g Wireless LAN Adapter overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
de Deutsch [German]	Hiermit erklärt Encore Electronics, Inc., dass sich das Gerät 802.11g Wireless LAN Adapter in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
Eesti [Estonian]	Käesolevaga kinnitab Encore Electronics, Inc. seadme 802.11g Wireless LAN Adapter vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English	Hereby, Encore Electronics, Inc., declares that this 802.11g Wireless LAN Adapter is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]	Por medio de la presente Encore Electronics, Inc. declara que el 802.11g Wireless LAN Adapter cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
el Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Encore Electronics, Inc. ΔΗΛΩΝΕΙ ΟΤΙ802.11g Wireless LAN AdapterΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Français [French]	Par la présente Encore Electronics, Inc. déclare que l'appareil 802.11g Wireless LAN Adapter est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
it Italiano [Italian]	Con la presente Encore Electronics, Inc. dichiara che questo 802.11g Wireless LAN Adapter è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Latviski [Latvian]	Ar šo Encore Electronics, Inc. deklarē, ka 802.11g Wireless LAN Adapter atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo Encore Electronics, Inc. deklaruoja, kad šis 802.11g Wireless LAN Adapter atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Nederlands [Dutch]	Hierbij verklaart Encore Electronics, Inc. dat het toestel 802.11g Wireless LAN Adapter in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Malti [Maltese]	Hawnhekk, Encore Electronics, Inc., jiddikjara li dan 802.11g Wireless LAN Adapter jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
Magyar [Hungarian]	Alulírott, Encore Electronics, Inc. nyilatkozom, hogy a 802.11g Wireless LAN Adapter megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Polski [Polish]	Niniejszym Encore Electronics, Inc. oświadcza, że 802.11g Wireless LAN Adapter jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
Português [Portuguese]	Encore Electronics, Inc. declara que este 802.11g Wireless LAN Adapter está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Slovensko [Slovenian]	Encore Electronics, Inc. izjavlja, da je ta 802.11g Wireless LAN Adapter v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	Encore Electronics, Inc. týmto vyhlasuje, že 802.11g Wireless LAN Adapter spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Suomi [Finnish]	Encore Electronics, Inc. vakuuttaa täten että 802.11g Wireless LAN Adapter tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar Encore Electronics, Inc. att denna 802.11g Wireless LAN Adapter står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.



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INTRODUCTION

Congratulations on your purchase of ENCORE 54Mbps IEEE 802.11g Wireless LAN Adapter.

This manual helps to get familiar with the 54Mbps IEEE 802.11g Wireless LAN Adapter. This manual contains detailed instructions in operation of this product. Please keep this manual for future reference.

With a Wireless LAN Adapter, a laptop computer or a station can communicate with another computer in a wireless way. Easy-to-use utilities are bundled with Wireless LAN Adapter for configuration, monitoring, and diagnosis purposes.

Wireless LAN Adapter can wirelessly transmit and receive data, with the Wireless LAN Adapter, you can locate your Notebook PC or station wherever you want without wires and cables.

Wireless LAN Adapter provides users with an access to real-time information anywhere in their organization. The mobility provides productivity and service, which are not available under wired networks. The Wireless LAN Adapter configuration is easy to change from peer-to-peer networks, suitable for a small number of users, to full infrastructure networks of thousands of users that allow roaming around a broad area.

Overview of this User's Guide

Introduction. Describes the 54Mbps IEEE 802.11g Wireless LAN Adapter.

Unpacking and Setup. Helps you get started with the basic installation of the 54Mbps IEEE 802.11g Wireless LAN Adapter.

Hardware Installation. Describes the LED indicators of the 54Mbps IEEE 802.11g Wireless LAN Adapter.

Software Installation. Tells how to setup the driver and the utility setting.

Technical Lists the technical (general, physical and environmental) **Specifications.** specifications of the 54Mbps IEEE 802.11g Wireless LAN Adapter.

UNPACKING AND SETUP

This chapter provides unpacking and setup information for ENCORE 54Mbps IEEE 802.11g Wireless LAN Adapter.

Unpacking

Open the box of the 54Mbps IEEE 802.11g Wireless LAN Adapter and carefully unpack it. The box should contain the following items:

- ◆ One 54Mbps IEEE 802.11g Wireless LAN Adapter
- One Driver & Utility with User's Guide CD-ROM

If any item is found missing or damaged, please contact your local reseller for replacement.

Setup

The setup of the Wireless LAN Adapter can be performed using the following steps:

- Visually inspect the CardBus/PCI Adapter and make sure that it is fully plugged in to the CardBus/PCI slot.
- ◆ Make sure that there is a well environment that there is no much intrusion to have a better connection.

HARDWARE INSTALLATION

LED Indicator for CardBus

Link

The Link LED indicator lighted green when the 54Mbps IEEE 802.11g Wireless LAN Adapter is connected to wireless network successfully.

ACT (Activity)

The ACT LED indicator blinking green when the 54Mbps IEEE 802.11g Wireless LAN Adapter is transmitting or receiving data.

LED Indicator for PCI

Link

The Link LED indicator lighted green when the 54Mbps IEEE 802.11g Wireless LAN Adapter is connected to wireless network successfully.

Check the installation

The LEDs of the Wireless LAN Adapter are clearly visible and the status of the network link can be seen instantly:

- 1. Once the device is plugged to the station's CardBus/PCI slot, the LED of the Wireless LAN Adapter will light up indicating a normal status.
- 2. When the device plugged to the station's CardBus/PCI slot and the driver was installed, the ACT will start alternate blinking, it means that the device is starting to scan the wireless devices near the Wireless LAN Adapter.
- 3. While the Wireless LAN Adapter linked up and transmitting data to the Access Point or to other Wireless LAN station, the Link LED will lighted green.

SOFTWARE INSTALLATION

This section will lead you to install the driver and utility of the Wireless LAN Adapter.

Windows 98/ME/2000/XP/Vista Utility and Driver Installation

1. Insert the 54Mbps IEEE 802.11g Wireless LAN Adapter Driver & Utility CD-ROM and the Auto-run program will appear. Alternatively, open a file browser and double click on the autorun.exe file located in the CD directory. In some specific setting on Windows system, you may need to proceed the software manually, go to your Windows Start menu and choose *Run*, type "D:\Utility\Vista\Setup.exe" or "D:\Utility\XP2K\Setup.exe"in the dialog box and click **OK**.

Note: (D:\ will depends on where the CD-ROM drive is located and <Windows OS> will depend on the Windows OS you are using)

2. If you need to install the driver manually, refer each Windows OS to the following CD-Rom directory path: D:\Driver\<Windows OS>.

Note: (D:\ will depends on where the CD-ROM drive is located and <Windows OS> will depend on the Windows OS you are using).

3. Click "Install Software (Utility)" to install the driver and software. Select "XP / 2K/ ME / 98" or "Vista", depending on your operating system, and the install wizard will begin installing the software. Follow the install wizard instructions to complete the installation.



4. Follow the Install Shield Wizard Instructions. Click "Next" to continue and finish it.

The installation program will help you to setup the Wireless LAN utility. Be noted that the Windows XP have its own Wireless Utility; you can either use the utility of Windows XP or the provided utility.

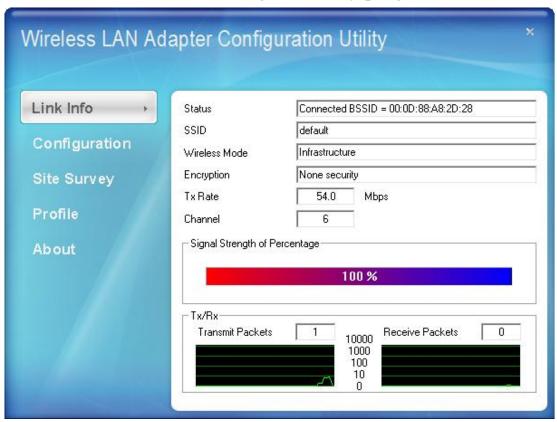
When the Wireless LAN Adapter was installed, you will see the icon on the Windows task bar. The user can configure the wireless settings using the Wireless Adapter Configuration Utility. Double-click the utility icon that appears in the taskbar



When the icon in the toolbar represents in full green color then the signal strength has an excellent performance with the AP, if it represents in yellow color then the signal strength has a fair performance with the AP, and if the icon represents no color, then the signal strength has a worst performance with the wireless station.

Link Information

This is the default screen after launching the Utility program.



Status: Shows the associated BSSID, which can be used to identify the wireless access point.

SSID: Shows the current SSID, which must be the same on the wireless client and AP in order for communication to be established.

Wireless Mode: Shows the current wireless mode used for wireless communication.

Encryption: Hoes the current encryption mode used on the wireless network.

TX Rate: Shows the current data rate used for transmitting.

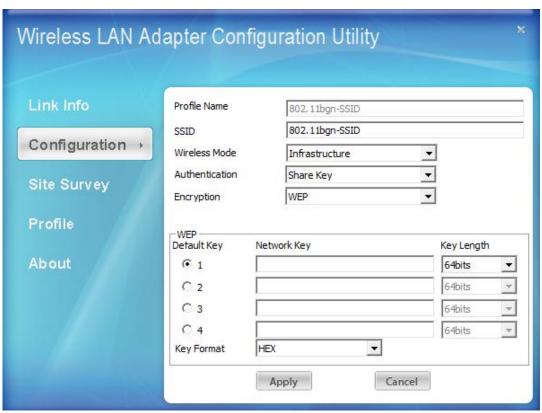
Channel: Shows the current channel for communication.

Signal Strength of Percentage: Shows the wireless signal strength of the connection between the Wireless LAN USB 2.0 Adapter with the Access Point.

TX/RX: Shows the statistics of data transfer, and the calculation is based on the number of packets transmitted and received. It also shows the link quality of the Wireless LAN USB 2.0 Adapter with the Access Point when operation under Infrastructure mode.

Configuration

This screen is where you set the basic wireless settings for the Wireless LAN USB 2.0 Adapter.



Profile Name: The default name is the same as the SSID of the platform which you connected and you can change the name you favor(the key length is limited 1~32 bits).

SSID: Service Set Identifier, which is a unique name shared among all client in a wireless network. The SSID must be identical for client in the wireless network.

Wireless Mode: There are two modes available for selection

- Infrastructure –to establish wireless communication with the LAN and other wireless client through the use of Access Points.
- Ad-Hoc to establish point- to-point wireless communication directly with other wireless client device.

Authentication: The following options are available: Open System, Shared key, WPA-PSK, WPA2-PSK, WPA EAP-TLS and WPA2 EPA-TLS.

Select **Open System**, **Shared Ke**y for WEP data encryption feature.

Open System and **Shared Key** require the users to set a WEP key to exchange data with other wireless clients that have the same WEP key.

The following will only be activated when **Open**, **Shared Key** is enabled:

Default Key: select one of the 4 keys to use.

Network Key: choose the encryption way, either in HEX or ASCII formats, and enter the password in the blank space.

Key Length: select 64 or 128 bits as the length of the keys.

Key Format: HEX or ASCII

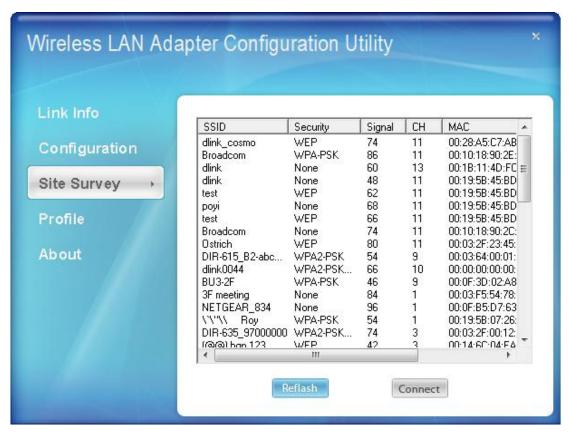
WPA-PSK/ WPA2-PSK:. This Passphrase must be the same on each computer that is connected to the wireless network.

WPA/ WPA2: Please click the "Certificate" button. Then, please select the certificate that user wants to use

Encryption: Select the encryption type for TKIP or AES encryption type.

Site Survey

This screen allows the user to scan for available wireless networks (wireless clients and Access Points). It also allows the user to establish wireless communications with an available wireless network.



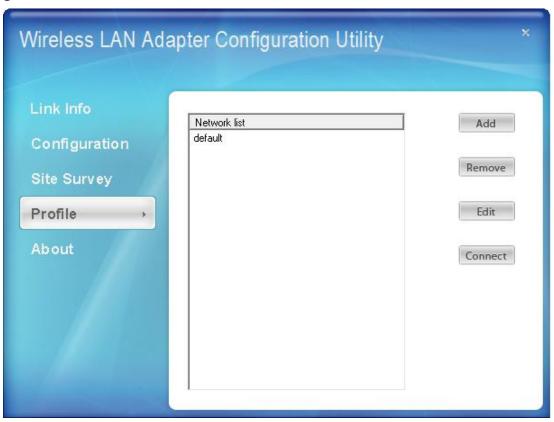
Available Network – displays the wireless networks (wireless clients and Access Points) that are within range.

Select any one of the wireless networks by **double-clicking** on it or clicking on the "**Connect**" button.

Click the "Refresh" button to scan for available networks.

Profile

Profile –The user can create and manage the created profiles for home, work or public areas. By double-clicking on one of the created profile, the setting will adjust to the specific setting such as SSID, channel, and encryption as saved by that particular profile.



Add: Adds a profile. The following screen will appear. The user can enter the necessary information required for accessing Access Points or Wireless Router.

Remove: Deletes the selected profile

Edit: To view and change its settings of the profile.

Connect: The current connected profile information

About

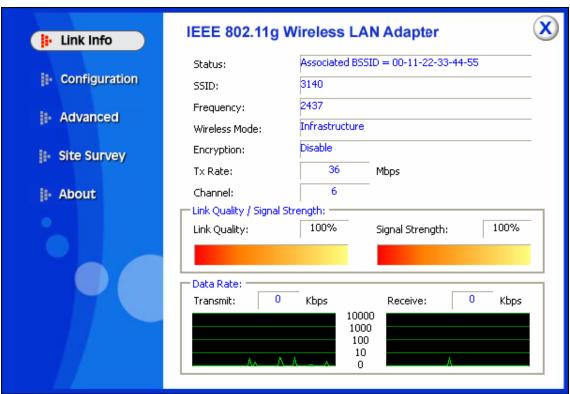
This screen displays information about the 54Mbps IEEE 802.11g Wireless LAN Adapter, such as the Driver and Utility version. When a new version of the utility becomes available for upgrade, users will be able to identify by version numbers.



WINDOWS XP/2000/ME/98 WIRELESS UTILITY SETTING

Link Information

The default page is as below after launching the Utility program.



Status: Shows the associated BSSID, which can be used to identify the wireless network.

SSID: Shows the current SSID, which must be the same on the wireless client and AP in order for communication to be established.

Frequency: Shows the current frequency used for wireless network.

Wireless Mode: Shows the current wireless mode used for wireless communication.

Encryption: Shows the current encryption mode used for wireless network.

TxRate: Shows the current data rate used for transmitting.

Channel: Shows the current channel for communication.

Link Quality: Shows the link quality of the wireless LAN adapter with the Access Point when operating under Infrastructure mode.

Signal Strength: Shows the wireless signal strength of the connection between the wireless LAN adapter card with the Access Point.

Data Rate: Shows the statistics of data transfer, and the calculation is based on the number of packets transmitted and received.

Configuration

This screen is where changes the basic wireless settings for the wireless LAN adapter with the minimum amount of effort to implement a secure wireless network environment.



SSID: Service Set Identifier, which is a unique name shared among all clients and nodes in a wireless network. The SSID must be identical for each clients and nodes in the wireless network.

Wireless Mode: There are two types available for selection

- •Infrastructure to establish wireless communication with LAN and other wireless clients through the use the Access Points.
- •Ad-Hoc to establish point-to-point wireless communication directly with other wireless client devices such as wireless network PCI Adapter.

AdHoc Band: When using *Wireless Mode* for *Ad-Hoc mode*, select the *AdHoc Band* from drop down list for *11b only*, *11g only* or *Auto* for both of 11b and 11g.

Channel: The channel the AP operates on. The channel range of 1 to 11 for North America (FCC) domain and 1 to 13 for European (ETSI) domain and 1 to 14 for Japanese domain.

WARNING: Country domain can't be choose by enduser, because the incorrect region may be in violation of applicable laws.

Power Mode: There are 3 modes to choose from.

- Continuous Access Mode (default) the wireless LAN adapter is constantly operating with full power. This mode consumes the most power.
- Maximum Power Save the wireless LAN adapter consumes the least power. This mode only operates when there is wireless network activity.
- Power Save the wireless LAN adapter consumes moderate level of power.

Preamble: Select Long or Short Preamble type. Preamble is a sequence of bits transmitted at 1Mbps that allows the PHY circuitry to reach steady-state demodulation and synchronization of bit clock and frame start. Two different preambles and headers are defined: the mandatory supported Long Preamble and header, which interoperate with the 1 Mbit/s and 2 Mbit/s DSSS specification (as described in IEEE Std 802.11), and an optional Short Preamble and header (as described in IEEE Std 802.11b). At the receiver, the Preamble and header are processed to aid in demodulation and delivery of the PSDU. The Short Preamble and header may be used to minimize overhead and, thus, maximize the network data throughput. However, the Short Preamble is supported only from the IEEE 802.11b (High- Rate) standard and not from the original IEEE 802.11. That means that stations using Short-Preamble cannot communicate with stations implementing the original version of the protocol. Click "Apply" for the changes to take effect.

Support Band: There are two modes the user can select, including 11B and 11G. The default setting is 11B and 11G are enabled, which is interoperable with both 11B and 11G devices.

Note: user must select one of 11B or 11G at least; otherwise the wireless connection will not function.

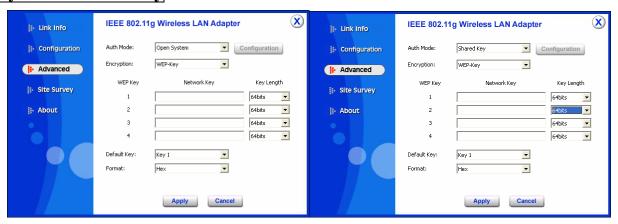
Advanced

This screen is where you configure the Security settings for the 54Mbps IEEE 802.11g Wireless LAN Adapter.



Auth Mode: Select the authentication type from drop down list for Disable, Open System, Shared Key, WPA, WPA-PSK, WPA2 and WPA2-PSK.

Open System / Shared Key



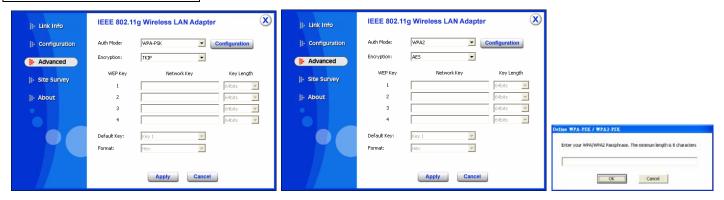
WEP Key 1~4: choose the encryption way, either in HEX or ASCII formats, and enter the password in the blank space.

Key Length: select 64 or 128 bits as the length of the keys. If you select 64bit in Hex format, you must type 10 values in the following range (0~F, hexadecimal), or 64bit in ASCII format, you must type 5 values in the following range (0~9, A~Z and a~z Alphanumeric); If you select 128bit in Hex format, you must type 26 values (0~F, hexadecimal), or 128bit in ASCII format, you must type 13 values in the following range (0~9, A~Z and a~z Alphanumeric).

Default Key: select one of the 4 keys to use.

Key Format: *ASCII* or *HEX*.

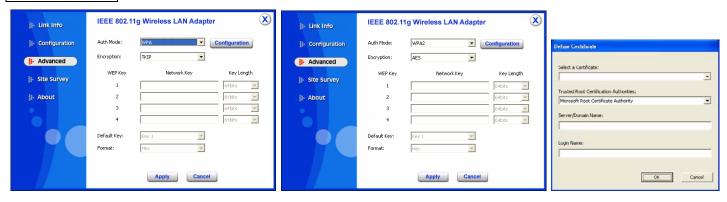
WPA-PSK / WPA2-PSK



If WPA-PSK or WPA2-PSK is selected, the above screen is shown. Please select the encryption type from drop down menu and press *Configuration* button to configure the passphrase key.

Encryption: Select the encryption type for TKIP or AES encryption type.

WPA / WPA2



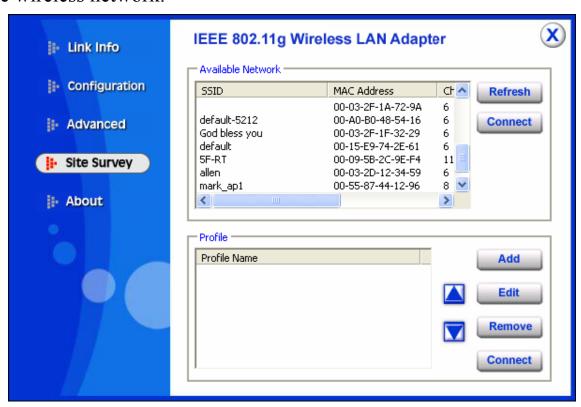
If WPA or WPA2 is selected, the above screen is shown. Please select the encryption type from drop down menu and press *Configuration* button to configure parameters for the RADIUS server.

WARNING: WPA, WPA2 don't support In Windows 98/ME.

Encryption: Select the encryption type for TKIP or AES encryption type.

Site Survey

This screen allows user to scan for available wireless networks (wireless clients and Access Points). It also allows the user to establish wireless communications with an available wireless network.

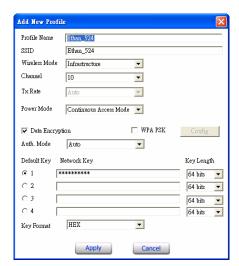


Available Network – displays the wireless networks (wireless clients and Access Points) that are in signal range.

Select any one of them to establish communications by simply mouse **double-click** or click on the "**Connect**" button.

Click "**Refresh**" button to start scanning for available network again.

Profile – The user can create and manage the created profiles for home, work or public areas. By double-clicking on one of the created profile, the setting will adjust to the specific setting such as SSID, channel, and WEP as saved by that particular profile.



Add: Adds a profile. Then, the following screen would appear. User can enter the necessary information required for accessing Access Points or Wireless Router.

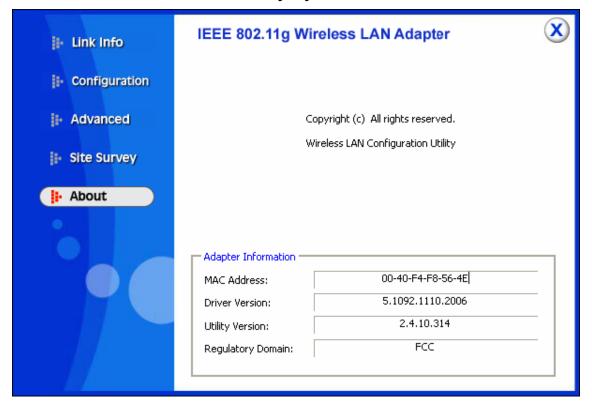
Edit: To view and change its settings of the profile.

Remove: Deletes the selected profile

Connect: The current connected profile information.

About

This screen displays information about the 54Mbps IEEE 802.11g Wireless LAN Adapter, such as the Driver and Utility version. When a new version of the utility for upgrade, users will be able to identify by version numbers.



TECHNICAL SPECIFICATIONS

General				
Radio Technology	IEEE 802.11b Direct Sequence Spread Spectrum (DSSS) IEEE 802.11g Orthogonal Frequency Division Multiplexing (OFDM)			
Interface	PCI Adapter: 32-bit PCI bus			
Data Transfer Rate	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54Mbps			
Receiver Sensitivity	54Mbps: Typical -70dBm @ 10% PER (Packet Error Rate) 11Mbps: Typical -86dBm @ 8% PER (Packet Error Rate)			
Transmit Power	802.11b: 15±2dBm 802.11g: 13±2dBm			
Frequency Range	2412 \sim 2484 MHz ISM band (channels 1 \sim 14) 2400 \sim 2483.5MHz ISM band (channels 1 \sim 11)			
Modulation Schemes	DBPSK/DQPSK/CCK/OFDM			
Channels	1~11 channels (FCC), 1~13 channels (ETSI), 1~14 channels (MKK-Japan)			
Media Access Protocol	CSMA/CA with ACK			
Security	64/128-bits WEP Encryption, WPA-PSK, WPA2-PSK, WPA, WPA2			
Diagnostic LED	PCI Adapter: Link			
Antenna	PCI: 2dBi dipole antenna			
Physical and Environmental				
Driver Support	Windows 98, ME, Windows 2000, Windows XP, Windows Vista			
Temperature	Operating: $0^{\circ} \sim 40^{\circ}$ C, Storage: $-10^{\circ} \sim 70^{\circ}$ C			
Humidity	10% ~ 95% RH, no condensation			
Dimensions	PCI Adapter: 133 x 121 x 21.6			
Certifications	FCC Part 15.247 for US, ETS 300 328 for Europe,			

WIRELESS FAQ

Q: My wireless signal drops, or my wireless signal strength fluctuates, or I am having problems wirelessly transferring large files, what steps can I take to correct this?

- A: When the signal strength drops or fluctuates, the common cause is RF interference.
 - Change the channel on your access point or wireless router.
 - Change the location of your wireless products. Subtle changes (2-3 feet) can make a big difference. Do not put the access point or wireless router in a cabinet or enclosure.
 - 2.4GHz phones, X-10, and bluetooth devices will interfere with your wireless network. Change the location of the base for your phone, or downgrade to 900Mhz phones, or upgrade to 5.2Ghz phones.
 - The wireless signal will degrade (or die completely) when going through brick (fireplace), metal (file cabinet), steel, lead, mirrors, water (fish tank), large appliances, glass, etc.

Q: How do I tell if my adapter is installed properly in Windows XP?

- A: Step 1 Right click My Computer.
 - Step 2 Select Manage
 - Step 3 Click the Device Manager under the System Tools section in the left panel.
 - Step 4 In the right panel, expand the Network Adapters section.
 - Your adapter should show up by name. (ex 802.11g USB 2.0 Wireless LAN Adapter)

If there is a problem with installation, the device will display as an Ethernet Controller, Network Controller, Unknown device, or will not be listed at all.

Q: The wireless adapter driver and software are installed properly, but it cannot detect nor connect to any wireless station. What can I do?

- A: Step 1. Inspect wireless utility software Wireless Channel setting, make sure it matches router's setting. (e.g. if router's wireless setting is set to channel 6, then the software must be set to channel 6 as well, so on.)
 - **Step 2**. Make sure in wireless utility software, wireless mode is set to Infrastructure (access point), not Ad-hoc (computer-to-computer)
 - Step 3. Set all TCP/IP settings in your computer to automatic, unless your ISP specifies otherwise.
 - Step 4. Check wireless security key setting in the router; make sure the wireless utility's key matches it.

Q: I have trouble configuring or using Wireless Configuration Utility that comes with the wireless card/adapter. What can I do?

A: If you are using Windows XP, we recommend that you use Windows XP's Wireless Utility (WZC).

To do this, go to **Start**, **Control Panel**, if it is not already in Classic View, click on "**Switch to Classic View**" on the left panel, **Network Connections**, right-click on your Wireless Connection icon and then select "**View Available Wireless Networks**", on the left panel select "**Change advanced settings**", click on the **Wireless Networks tab**, make sure "**Use Windows to configure my wireless network settings**" box is checked, press OK.

Now, on the bottom-right corner of the screen you should see a little monitor icon. Right-click on it, choose "View Wireless Networks" to view a list of wireless stations, then double-click on your wireless station to connect to it.

If you are not using Windows XP, please remove Wireless Configuration Utility in Control Panel, Add/Remove Program, restart the computer, and reinstall it.