



Atlantis Land

Net Fly PCI54

*Wireless PCI
Adapter*



User Guide

www.atlantis-land.com



Atlantis Land

ITALIANO

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ENGLISH

This product is covered by Atlantis Land 2 years warranty. For more detailed informations please refer to the web site www.atlantis-land.com.

For more detailed instructions on configuring and using this device, please refer to the online manual.

FRANCAIS

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ENGLISH

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- 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.



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CE Mark Warning

In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

CE in which Countries where the product may be used freely:

Germany, UK, Italy, Spain, Belgium, Netherlands, Portugal, Greece, Ireland, Denmark, Luxembourg, Austria, Finland, Sweden, Norway and Iceland.

France: except the channel 10 through 13, law prohibits the use of other channels.

CE/EMC Restriction of Liability

The product described in this handbook was designed, produced and approved according to the EMC-regulations and is certified to be within EMC limitations.

If the product is used in an uncertified PC, the manufacturer undertakes no warranty in respect to the EMC limits. The described product in this handbook was constructed, produced and certified so that the measured values are within EMC limitations. In practice and under special circumstances, it may be possible, that the product may be outside of the given limits if it is used in a PC that is not produced under EMC certification. It is also possible in certain cases and under special circumstances, which the given EMC peak values will become out of tolerance. In these cases, the user himself is responsible for compliance with the EMC limits.

Declaration of Conformity

This equipment has been tested and found to comply with Directive 1999/5/CE of the European Parliament and of the Council on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity. After assessment, the equipment has been found to comply with the following standards: EN 300.328 (radio), EN 301 489-1, EN 301 489-17 (electromagnetic compatibility) and EN 60950 (safety). This equipment may be used in all European Union countries and in all countries applying Directive 1999/5/CE, without restriction, with the exception of the following countries:

France (FR): When this equipment is used outdoors, output power is limited to within the frequency bans listed on the chart. For more info, consult the website www.art-telecom.fr.

Location	Frequency Band (MHz)	Power (EIRP)
Indoor (no restriction)	2400-2483,5	100mW(20dBm)



Outdoor	2400-2454	100mW(20dBm)
	2454-2483,5	10mW(10dBm)

Italy(IT): For more info, consult the website www.comunicazioni.it

Luxembourg: General authorization requie for network and service supply.

Norway (NO): This subsection does not apply for geographical area within a radius of 20 km from the center of Ny Alesund.

Russia (CCP): only for indoor application.

Declaration of Conformity **CE**

Hereby, Sidin SpA, declares that this product (A02-PCI-W54) is in compliance to all relevant essential requirements of R&TTE Directive (99/5/CE). CE Declaration is available on the web site www.atlantis-land.com.



Congratulations on your purchase of this 802.11g Wireless PCI Adapter. This manual helps to get familiar with the Adapter. This manual contains detailed instructions in operation of this product. Please keep this manual for future reference.

1. Introduction

With a Wireless LAN (IEEE 802.11g) PCI Adapter, a desktop or laptop computer can communicate with another computer in a wireless way. Easy-to-use utilities are bundled with Wireless USB Adapter for configuration, monitoring, and diagnosis purposes. The Adapter can wirelessly transmit and receive data, minimizing the need for wired connections, at a speed of up to fiftyfour megabit per second. The 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 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.

2. Unpacking and setup

This chapter provides unpacking and setup information for the Wireless Adapter.

2.1 Unpacking

Open the box of the Wireless Adapter and carefully unpack it. The box should contain the following items:

- 1 x NetFly PCI 54
- 1 x 2.2dBi dipole detachable antenna (R-SMA connector)
- 1 x Multilanguage QuickStart Guide (English and Italian)
- 1 x CDRom with driver, utility and online manual

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

2.2 Setup

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

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

3. Hardware Installation

3.1 LED Indicator

LINK: The Link LED indicator lighted green when the Wireless Adapter is connected to wireless network successfully.

3.2 Check the installation

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

- Once the device is plugged to the station's PCI slot, the LED of the Wireless LAN Adapter will light up indicating a normal status.
- When the device plugged to the station's 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.
- 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.

4. Software Installation

4.1 Utility and driver installation for OS Windows

1. Insert the 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:\A02-PCI-W54\UTILITY\<OSVer>\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. Click on **"A02-PCI-W54"** icon to select Wireless USB Adapter Home Page.
3. Select **"Windows 98/2000/XP Utility"** or **"Windows VISTA Utility"**, depending on your operating system, and the install wizard will begin installing the software. Follow the install wizard instructions to complete the installation.

NOTE:



If you need to install the driver manually, refer each Windows OS to the following CD-Rom directory path: **D:\A02-PCI-W54\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.

4.2 Check the installation

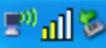
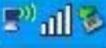
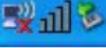
NOTE:



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

Icon	Quality of Signal
	Excellent

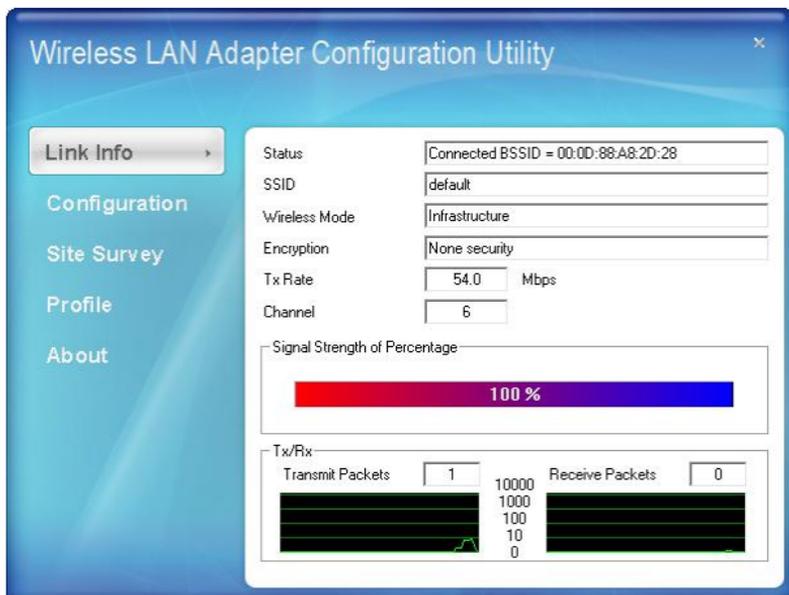
	Good
	Waiting connection
	Not connected

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.

5. Wireless Utility (For Windows VISTA)

5.1 Link Info

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: Shows 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.

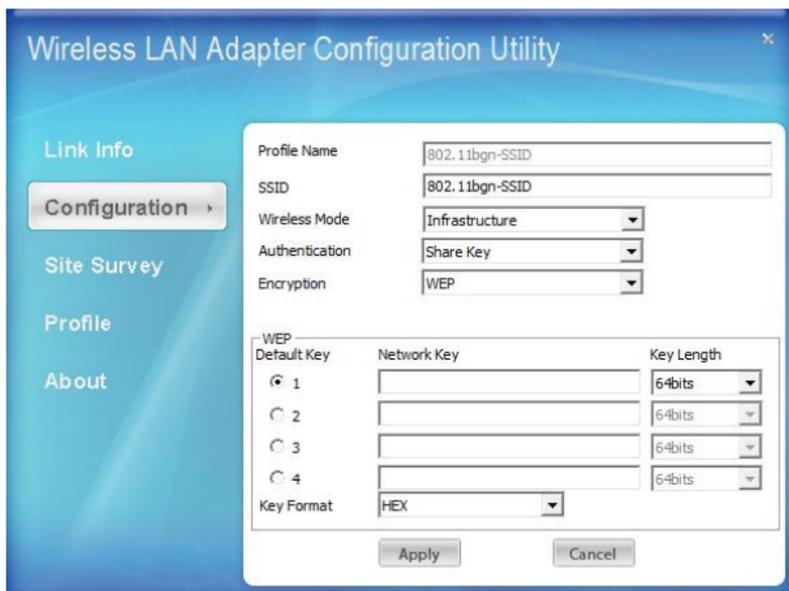
Signal Strength of Percentage: Shows the wireless signal strength of the

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.

5.2 Configuration

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



Segue una descrizione delle opzioni selezionabili:

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 this 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
- WPA2 EPA-TLS

Following, you can find some settings to use the most commons encryption features.

OPEN SYSTEM / SHARED KEY



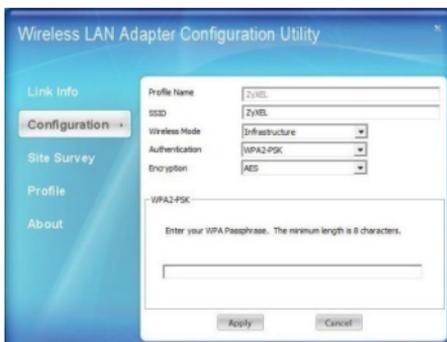
1. Select **"Open System"** or **"Shared System"** from Authentication field.
2. Select **"WEP"** from Encryption field. (Wired-Equivalent Protection).

3. Select "**ASCII**" or "**HEX**" from Key Format to choose keys introducing method.
4. Type 4 keys (64 or 128 bits) to use to encrypt your data with WEP and check which one you'd use.
5. Press "**Apply**" to start connection.



WEP key, as SSID, must be the same for all devices of the network.

WPA /WPA-PSK / WPA2 / WPA2-PSK



Wireless LAN Adapter Configuration Utility

Link Info

Configuration

Site Survey

Profile

About

Profile Name: ZyBL

SSID: ZyBL

Wireless Mode: Infrastructure

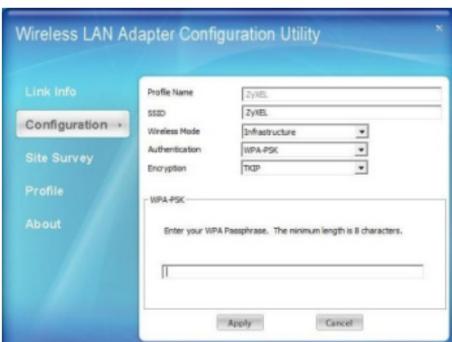
Authentication: WPA2-PSK

Encryption: AES

WPA2-PSK

Enter your WPA Passphrase. The minimum length is 8 characters.

Apply Cancel



Wireless LAN Adapter Configuration Utility

Link Info

Configuration

Site Survey

Profile

About

Profile Name: ZyBL

SSID: ZyBL

Wireless Mode: Infrastructure

Authentication: WPA-PSK

Encryption: TKIP

WPA-PSK

Enter your WPA Passphrase. The minimum length is 8 characters.

Apply Cancel

1. Select "**WPA-PSK**" or "**WPA2-PSK**" form Authentication field.
2. Select "**AES**" or "**TKIP**" from Encryption field (AES must to be supported also from AP).
3. Type the Passphrase keys to be used to authenticate your client and encrypt your wireless network.
4. Press "**Apply**" to start connection.



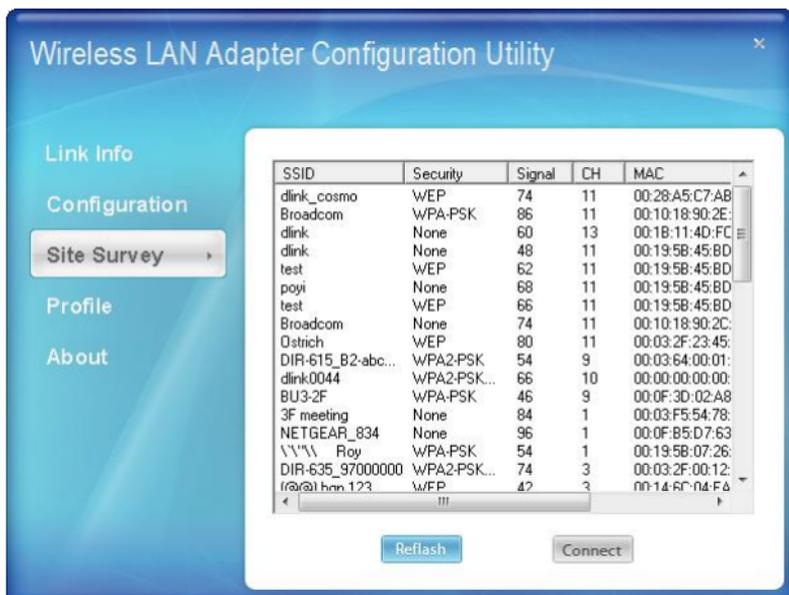
Passphrase , as SSID, must be the same for all devices of the network.



If you need to use a RADIUS authentication, please choose “WPA” or “WPA2” and select which type of certificate do you use for authentication.

5.3 Site Survey

This screen displays the wireless networks (wireless clients and Access Points) that are within range and it also allows the user to establish wireless communications with an available wireless network.



Wireless LAN Adapter Configuration Utility

Link Info

Configuration

Site Survey

Profile

About

SSID	Security	Signal	CH	MAC
dlink_cosmo	WEP	74	11	00:28:A5:C7:AB
Broadcom	WPA-PSK	86	11	00:10:18:90:2E:...
dlink	None	60	13	00:18:11:4D:FC
dlink	None	48	11	00:19:58:45:8D
test	WEP	62	11	00:19:58:45:8D
poyi	None	68	11	00:19:58:45:8D
test	WEP	66	11	00:19:58:45:8D
Broadcom	None	74	11	00:10:18:90:2C:...
Ostrich	WEP	80	11	00:03:2F:23:45:...
DIR-615_B2-abc...	WPA2-PSK	54	9	00:03:64:00:01:...
dlink0044	WPA2-PSK...	66	10	00:00:00:00:00:...
BU3-2F	WPA-PSK	46	9	00:0F:3D:02:A8
3F meeting	None	84	1	00:03:F5:54:78:...
NETGEAR_834	None	96	1	00:0F:B5:D7:63
*\ Roy	WPA-PSK	54	1	00:19:58:07:26:...
DIR-635_97000000	WPA2-PSK...	74	3	00:03:2F:00:12:...
f@h@ h@n 123	WEP	42	3	00:14:FC:04:F4

Refresh Connect

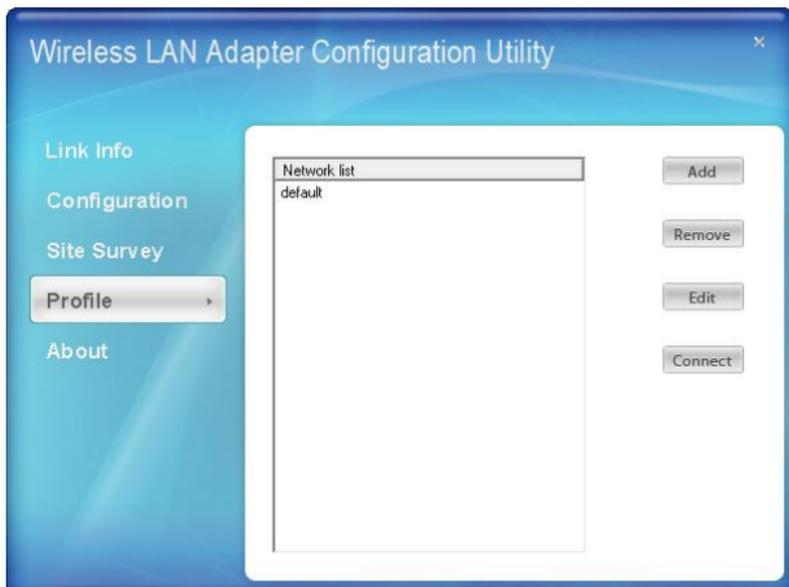
Select any one of the wireless networks by double-clicking on it or clicking on the **Connect** button.



Click on **Refresh** to update available wireless networks.

5.4 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

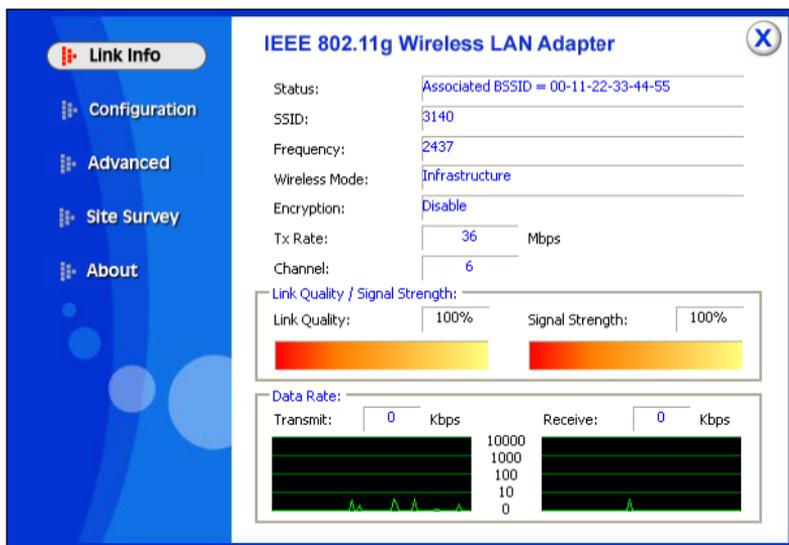
5.5 About

This screen displays information about the Wireless 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.

6. Wireless Utility (for Windows 98SE, 2000 ed XP)

6.1 Link Information

This is the default screen after launching the Utility program.



The screenshot shows the 'IEEE 802.11g Wireless LAN Adapter' utility window. On the left is a navigation menu with options: Link Info (selected), Configuration, Advanced, Site Survey, and About. The main area displays the following information:

- Status: Associated BSSID = 00-11-22-33-44-55
- SSID: 3140
- Frequency: 2437
- Wireless Mode: Infrastructure
- Encryption: Disable
- Tx Rate: 36 Mbps
- Channel: 6

Below this, there are two signal strength indicators:

- Link Quality / Signal Strength: Both are at 100%, represented by full-length color gradient bars.

At the bottom, there are data rate graphs:

- Data Rate: Transmit: 0 Kbps, Receive: 0 Kbps.
- Two graphs showing activity over time. The left graph is for Transmit and the right for Receive. Both show a vertical scale from 0 to 10000 Kbps. The Transmit graph shows several small green triangles, and the Receive graph shows one.

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.

6.2 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 of 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 the drop-down list for 11b only, 11g only or Auto for both of 11b and 11g (tra **11g only, 11b only e Auto**)
 - **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.



Country domain can't be chosen by end user, 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 a moderate level of power.

Preamble Type: 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.

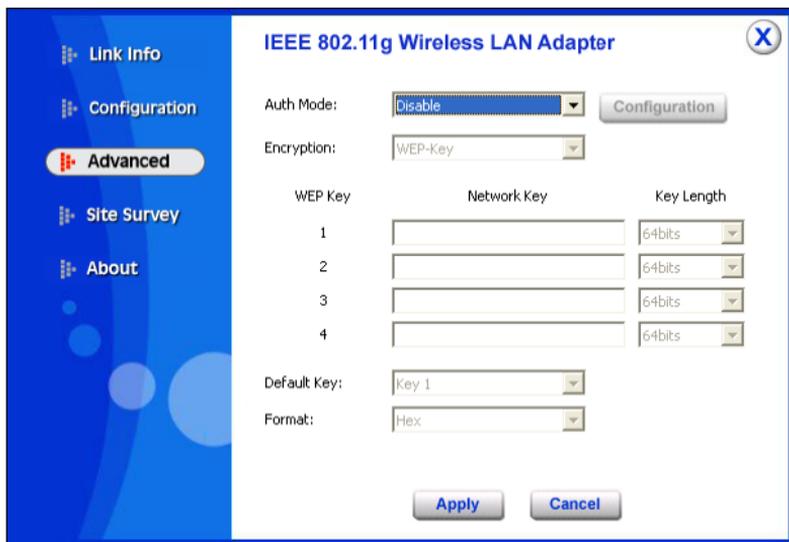
Support Band: There are two modes the user can select, including 11B and 11G. The default setting is 11B and 11G are enabled, which is interoperable with both 11B and 11G devices.



User must select one of 11B or 11G at least; otherwise the wireless connection will not function

6.3 Advanced

This screen is where you configure the Security settings for the Wireless Adapter.



The screenshot shows the configuration window for an IEEE 802.11g Wireless LAN Adapter. The window has a blue sidebar on the left with navigation options: Link Info, Configuration, Advanced (selected), Site Survey, and About. The main area is titled "IEEE 802.11g Wireless LAN Adapter" and contains the following settings:

- Auth Mode:** A dropdown menu set to "Disable".
- Encryption:** A dropdown menu set to "WEP-Key".
- WEP Key Table:** A table with 4 rows and 3 columns: WEP Key, Network Key, and Key Length.

WEP Key	Network Key	Key Length
1	<input type="text"/>	64bits
2	<input type="text"/>	64bits
3	<input type="text"/>	64bits
4	<input type="text"/>	64bits
- Default Key:** A dropdown menu set to "Key 1".
- Format:** A dropdown menu set to "Hex".

At the bottom of the window are "Apply" and "Cancel" buttons.

Auth Mode: The following options are available:

- Open System
- Shared key
- WPA-PSK
- WPA2-PSK
- WPA EAP-TLS
- WPA2 EPA-TLS

Following, you can find some settings to use the most commons encryption features.

OPEN SYSTEM / SHARED KEY



1. Select "**Open System**" or "**Shared System**" from Authentication field.
2. Select "**WEP**" from Encryption field. (Wired-Equivalent Protection).
3. Select "**ASCII**" or "**HEX**" from Key Format to choose keys introducing method.
4. Type 4 keys (64 or 128 bits) to use to encrypt your data with WEP and check which one you'd use.
5. Press "**Apply**" to start connection.



WEP key, as SSID, must be the same for all devices of the network.

WPA / WPA-PSK / WPA2 / WPA2-PSK



1. Select **“WPA-PSK”** or **“WPA2-PSK”** form Authentication field.
2. Select **“AES”** or **“TKIP”** from Encryption field (AES must to be supported also from AP).
3. Type the Passphrase keys to be used to authenticate your client and encrypt your wireless network.
4. Press **“Apply”** to start connection.

NOTE:

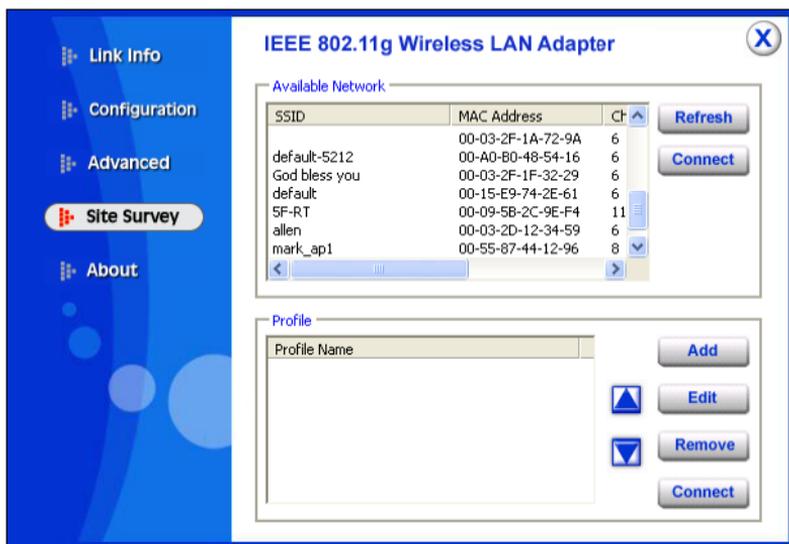

Passphrase , as SSID, must be the same for all devices of the network.

NOTE:


If you select **“WPA”** or **“WPA2”**, you have to click on **“Configuration”** button to set a valid certified for client authentication.

6.4 Site Survey

This screen displays the wireless networks (wireless clients and Access Points) that are within range and it also allows the user to establish wireless communications with an available wireless network.



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



Click on "Refresh" to update available wireless networks.



6.5 About

This screen displays information about the Wireless 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.



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7. Support

For technical informations, please connect to <http://www.atlantis-land.com/ita/supporto.php> for use on-line ticket platform or call +39 02 00 632 345.

For general informations: info@atlantis-land.com

For presale informations: prevendite@atlantis-land.com

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8. APPENDIX A: Technical Specifications

<i>General</i>	
Radio Technology	IEEE 802.11b Direct Sequence Spread Spectrum (DSSS) IEEE 802.11g Orthogonal Frequency Division Multiplexing (OFDM)
Interface	PCI 32-bit
Data Transfer Rate	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54Mbps
Receiver Sensitivity	802.11g: Typical -72dBm @ 10% PER 802.11b: Typical -85dBm @ 8% PER
Frequency Range	2412 ~ 2472 MHz ISM band (channels 1 ~ 13)
Modulation Schemes	DBPSK/DQPSK/CCK/OFDM
Channels	1~13 channels (ETSI)
Media Access Protocol	CSMA/CA with ACK
Security	64/128-bits WEP, WPA-PSK, WPA2-PSK, WPA, WPA2
Diagnostic LED	Link
Antenna	2.2dB dipole antenna
Driver Support	Windows 98, ME, Windows 2000, Windows XP, Windows Vista
Continuous Current Consumption	370 mA (Rx), 470 mA (Tx)
<i>Physical and Environmental</i>	
Temperature	Operating: 0° ~ 40° C, Storage: -10° ~ 70° C
Humidity	10% ~ 95% RH, no condensation
Dimensions	131 x 121 x 21.6 mm (without antenna)
Certifications	CE (Europe), WHQL Driver Certification

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