

# 300N Draft 802.11n Wireless PCI Adapter Model # AWLH6080

User's Manual

Rev. 1.0

# Table of Contents

1. Introduction	3
1.1 Package Contents	3
1.2 Features	
2. Installation	4
2.1 Installing the Driver & Utility	4
2.2 Verifying Driver Installation	
3. Configuring the Wireless Adapter	
4. Wireless Monitor	20
4.1 Wireless Information	20
4.2 AP List	21
4.3 Profile settings	22
4.4 Configuring Encryption	24
4.5 Ad-hoc / Peer-to-Peer Networking	
4.6 About	
Appendix A – Features	
Appendix B – Information	
Technical Support	

# 1. Introduction

Congratulations on your purchase of the 300N Draft 802.11n Wireless PCI Adapter. The 300N PCI Adapter provides wireless data rate of up to 300 Mbps\* when used with other AirLink101® 300N wireless products. The high bandwidth combined with extended wireless coverage delivers fast and reliable connection for all of your networking applications.

A full range of security features such as WEP, WPA-PSK, and WPA2-PSK provide the highest level of wireless network security. The bundled Wireless Utility allows you to set up the adapter with an easy-to-use user interface. Best of all the 300N PCI Adapter works with 802.11g and 802.11b network devices ensuring compatibility with your existing wireless products.

# 1.1 Package Contents

Before you begin the installation, please check the items of your package. The package should include the following items:

- Wireless PCI Adapter
- Antenna
- Quick Installation Guide
- Installation CD (Driver/Utility/Manual)

## 1.2 Features

- Industry's highest wireless data rate of up to 300 Mbps\* with IEEE 802.11n draft specification version 1.0.
- 3 antennas for wider coverage and continuous connectivity eliminates dead spots
- 64-bit/128-bit WEP encryption, Pre-shared Key (PSK), and Wi-Fi Protected Access (WPA2) and WPA support provide full protection for your wireless connection
- Higher data rate increases the reliability and stability of wireless connections
- Great for environments with higher wireless data traffic requirements
- Fully backward-compatible with 802.11b/g devices
- Works best with AirLink101® 300N wireless router AR680W

# 2. Installation

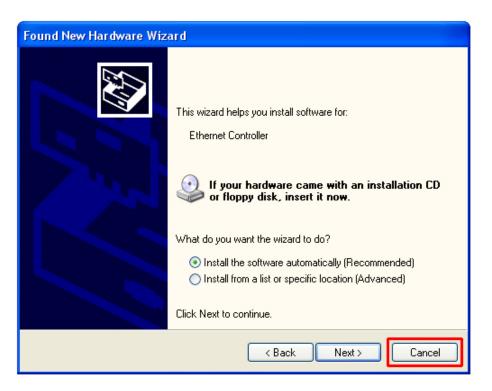
## 2.1 Install Driver & Utility

This section provides instructions on how to install the **300N Draft 802.11n Wireless PCI Adapter**. The driver is installed along with the utility.

#### *Note:* Be sure to power off your computer before inserting the Cardbus adapter.

Step 1 Insert the PCI adapter into an available PCI slot and turn on your computer.

**Step 2** After turning on the computer, Windows will launch the **Found New Hardware Wizard**. The Found New Hardware Wizard appears differently depending on your operating system. Click **Cancel** to quit the wizard and insert the Installation CD into your CD drive.

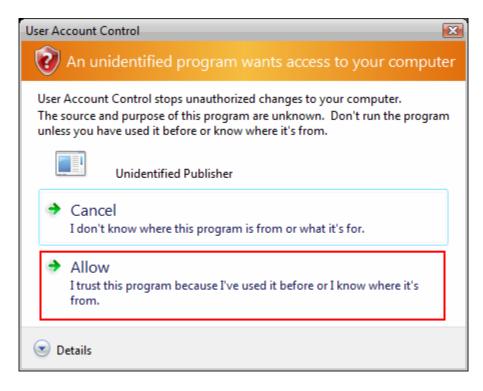


Step 3 The Autorun screen will pop up. Select Install Utility and Driver from the menu.

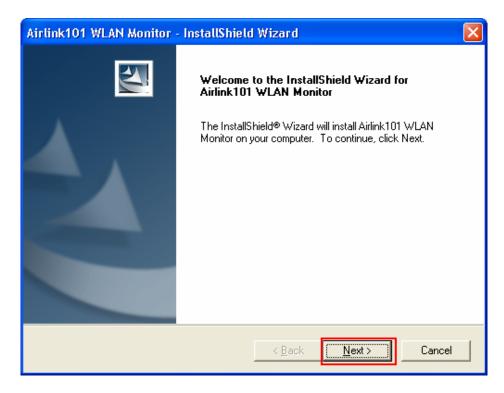


**Note:** If the Autorun screen doesn't appear automatically, or if you get a blank white screen, go to **Start**, **Run**, and type **D:\Utility\Setup.exe** (where **D** is the letter of your CD drive) and click **OK**.

*Windows Vista users:* At this point, you may get a warning message like the one below. Make sure that you click **Allow** to continue with the installation.



Step 4 Click Next at the welcome screen.



Step 5 Click Next to accept the default destination folder.

Airlink101 WLAN Monitor - InstallShield Wizard	×
Choose Destination Location Select folder where setup will install files.	
Setup will install Airlink101 WLAN Monitor in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.	
┌─ Destination Folder	
C:\\Airlink101\Airlink101 WLAN Monitor\ Browse	
InstallShield < <u>B</u> ack Cancel	

Airlink101 WLAN Monitor - InstallShield Wizard	×
Select Program Folder Please select a program folder.	1
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue. Program Folder:	-
Airlink101 Existing Folders: Accessories Startup	
InstallShield	
< <u>B</u> ack <u>N</u> ext > Cancel	

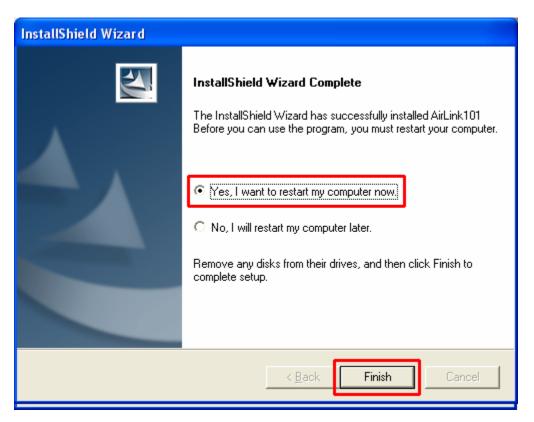
**Step 6** Click **Continue Anyway** at the Windows Logo Screen. (For Windows 2000, click **Yes** at the Digital Signature Not Found prompt).



For Windows Vista, click the **Install this driver software anyway** button when the security warning appears.

😵 Wir	dows Security
8	Windows can't verify the publisher of this driver software
	Don't install this driver software You should check your manufacturer's website for updated driver software for your device.
	Install this driver software anyway Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
ي چ	ee <u>d</u> etails

Step 7 Click Yes, I want to restart my computer now and then Finish to restart your computer.



**Step 8** After the computer is restarted, Windows will ask to connect to Windows Update, select **No, not this time** and click **Next**. If this screen does not appear, you can skip to section 2.2.

Found New Hardware Wiz	ard
Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, of the Windows Update Web site (with your permission).	
	Read our privacy policy Can Windows connect to Windows Update to search for software? • Yes, this time only
	<ul> <li>Les, trus time only</li> <li>Yes, now and every time I connect a device</li> <li>No, not this time</li> </ul>
	Click Next to continue.
	< <u>Back</u> <u>N</u> ext > Cancel

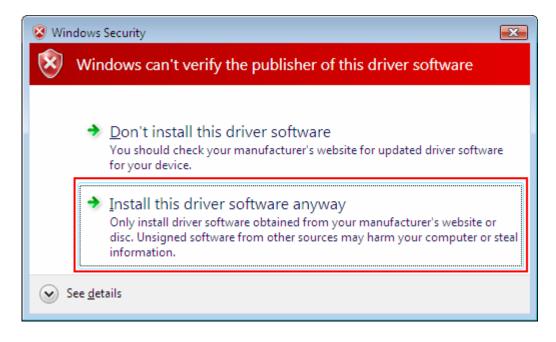
Step 9 Select Install the software automatically and click Next.

Found New Hardware Wizard
Image: Note of the system o
< <u>B</u> ack <u>N</u> ext > Cancel

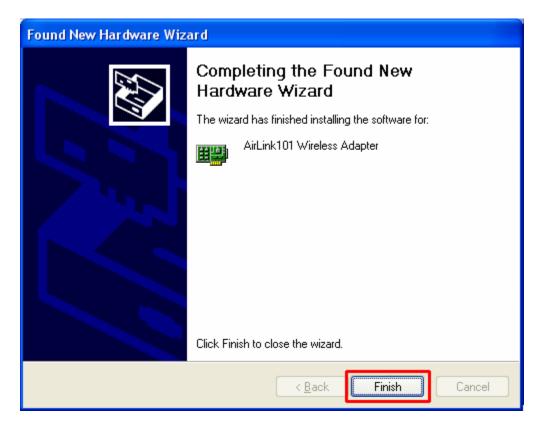
**Step 10** Click **Continue Anyway** at the Windows Logo Screen. (For Windows 2000, click **Yes** at the Digital Signature Not Found prompt).

Softwar	e Installation
⚠	The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. ( <u>Tell me why</u> <u>this testing is important.</u> )
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
	Continue Anyway

For Windows Vista, click the **Install this driver software anyway** button when the security warning appears.



# Step 11 Click Finish.



# 2.2 Verify Driver Installation

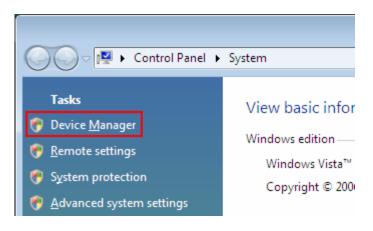
To verify if the driver has been installed successfully, please perform the following steps.

Step 1 Right-click on My Computer from your desktop and select Properties.

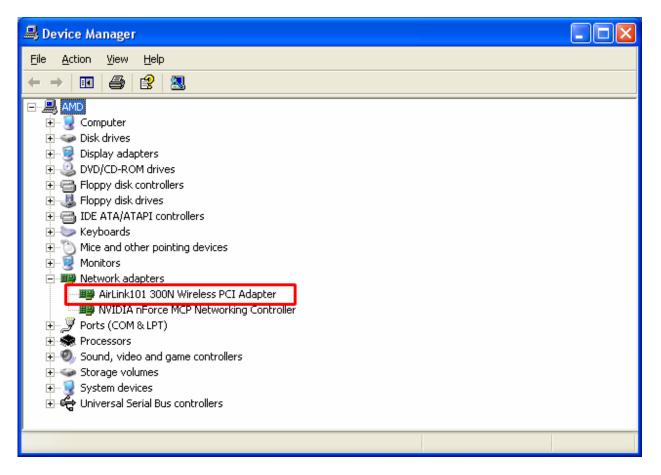
**Step 2** If you are using Windows XP/2000 select the **Hardware tab**, then click on **Device Manager**.

System Properties
System Restore Automatic Updates Remote General Computer Name Hardware Advanced
Device Manager The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device. Device Manager
Drivers         Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.         Driver Signing       Windows Update
Hardware Profiles Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles
OK Cancel Apply

If you are using **Windows Vista**, click on the device manager link on the left side of the screen.



**Step 3** Expand **Network adapters** from the list and verify that **AirLink101 300N Wireless PCI Adapter** is listed and no yellow question mark is beside it.



If **AirLink101 300N Wireless PCI Adapter** is not listed, or you see a yellow question mark beside it, you will need to reinstall the driver.

# 3. Configuring the Adapter

This section describes how to connect your wireless adapter to a wireless network.

#### Note to Windows XP Users:

You must disable the Wireless Zero Configuration Utility in order to use the bundled Wireless Utility. Please follow the steps below to disable XP's wireless utility. Windows Vista users can skip the following instructions and go to **Step 1** 

Double-click on the **Wireless Network Connection Icon** in the system tray and then click on **Properties** or **Advanced**.



When the new wireless network connection properties window appears, go to the **Wireless Networks** tab, uncheck the **"Use Windows to configure my wireless network settings"** check box and click **OK**.

	/ireless Network Connection 12 Properties	? 🕨
Ge	neral Wireless Networks Advanced	
	Use Windows to configure my wireless network setting:	8
	Available networks:	
	To connect to an available network, click Configure.	_
21	L wireless	gure
		esh
	💡 default 🛛 🖌 🖌 Refr	
	Preferred networks:	
	Preferred networks: Automatically connect to available networks in the order	listed
	Preferred networks: Automatically connect to available networks in the order below:	listed
	Preferred networks: Automatically connect to available networks in the order below:	listed

**Step 1** To open the utility, double click on the Wireless Monitor icon in the system tray at the bottom right-hand corner of your screen.



**Step 2** Go to the **AP List** tab, select the **SSID** (Network Name) of the wireless network you wish to connect to, and click **Connect**.

AirLink101 W	/ireless Monitor			
-Wireless Inform Signal:	Netwo	Channel: 6 rk Name: default Address: 192.168.1.102	Ξ.	
AP List		file Setting	About	
SSID	MAC(BSSID)	S 🛆 Secu C	han	
💡 default	00:14:A5:95:18 00:DE:FA:15:0	62% 100% 💼		eless
<				
		Refresh		
default - default	t	Activat	e	

If the network you are attempting to connect to is configured for encryption, you will see an orange lock icon next to the network.

AirLink101 Wireless	Monitor	X
-Wireless Information	Channel: 6	
Signal: ,1	Network Name: default IP Address: 192.168.1.102	Connected
AP List	Profile Setting Ab	
SSID MAC(B) & default 00:14:4 & default680 00:DE:1	5:95:18 62% 6	<b>VVITEIESS</b>
	Refresh Connec	t
default - default	Activate	

When you click on it and click connect, a box will pop up requesting the wireless encryption key for the router. Enter the encryption key into the box and click **OK**.

Connection	×
This network requires a network key (WEP Key)	
Кеу	
Show text in the password field	
OK Cancel	

**Step 3** You should now be connected. You should see "Connected" in the top, right hand corner, and there will be a blue circle around the antenna icon next to the network name.

AirLink101 Wireless	Monitor	
-Wireless Information		
Signat:	Channel: 6 Network Name: default IP Address: 192.168.1.102	Connected
AP List	Profile Setting Ak	bout
SSID MAC(B default 00:14: default680 00:DE:	A5:95:18 62%	an 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
<		>
	Refresh Connec	ct
default - default	- Activate	

**Troubleshooting:** If you are experiencing problems with the connection (unable to connect, low signal strength, slow connection speed, not working, unstable wireless connection) you will want to tune your router's signal by changing channels on the router or adjusting the antenna direction.

You do not need to change the channel on the card, it will automatically pick up the new channel after you reboot. The only channel that you need to change is the router's channel.

Your router has 11 different channels to choose from. Start with channel 1 and work your way up. Each time you change the channel on the router, make sure that you restart the wireless computer before trying to connect again. Keep going through the channels until you find one that gives you a stable connection.

For instructions on changing channels, refer to the documentation that came with your router.

# 4. Wireless Monitor

This section describes the various functions of the Wireless Monitor that you can configure, including the settings of wireless encryption.

## 4.1 Wireless Information

The **Wireless Information** box at the top of the window provides you with the status of the current connection, including signal, network name (SSID), IP Address and router channel.

AirLink101 Wireless	Monitor	
- Wireless Information	Channet: 6 Network Name: default IP Address: 192.168.1.102	Connected
AP List	Profile Setting Abo	d.
	3SSID) S / Secu Char :A5:95:18 62% 6 :FA:15:0 100% 😑 6	VVILESS
default - default	Refresh Connect	

# 4.2 AP List

The **AP List** tab displays all the available wireless networks detected by the Wireless Adapter. Simply select the wireless network you wish to connect to and click **Connect**. If you have created multiple profiles, you can use the profile chooser at the bottom to select the specific profile you want to use. Then click **Activate** to enable that profile.

AirLink101 Wireless Monitor	
-Wireless Information	]
Channel: 6	
Network Name: default Signal: IP Address: 192.168.1.102	Connected
	)
AP List Profile Setting About	
SSID MAC(BSSID) S 🛆 Secu Chan	Mircless
P         default         00:14:A5:95:18         62%         6	VVII EIESS
🗼 default680 00:DE:FA:15:0 100% 🧰 6	Wireless Monitor
	INICIACO
Refresh Connect	
default - default  Activate	

# 4.3 Profile Settings

This section provides instructions on using the **Profile Settings** section of the wireless monitor.

AirLink101 Wireless	Monitor				
-Wireless Information					
	Channel:	6			
	Network Name:	default		•	
Signal:	IP Address:	192.168.1.101		Connected	
		_			
AP List	Profile Setting	3			
- My Wireless Networks -				_	
default - default			Wir	<b>EIE</b>	55
				lop	itor
			IV	IOH	
			-		
- Profile Details					
Network Name: d	efault				
Network Type: In	frantri oti ira				
Network Type. In	mastructure				
Security: N	one				
New	Modify Delete	Activate			

The **My Wireless Networks** box lists the different profiles you've created for the different networks that you use. Profiles are automatically created and added to this list when you connect to new networks. You can also manually add profiles.

To modify an existing profile, select that profile from the **My Wireless Networks** box and click on modify.

To create a new profile, click on **New**.

The **Profile Settings** box will appear allowing you to specify the settings for your new profile or change settings for your existing profile.

Profile Settings	
- Basic Settings	
Profile Name:	default
SSID:	default
Network Type:	Infrastructure     C Adhoc
- Set Security Option	No Security
C WEP	
C WPA/WPA2-PSK	
O WPAMPA2	
C 802.1X	
O None	
	OK Cancel

Once you are finished entering the settings, click **OK** to save the changes.

# 4.4 Configuring Encryption

This section describes the different types of encryption available and how to configure them. In most cases, encryption will be automatically configured and all that will need to be entered is the key, as described in **Section 3 Step 2**. The only time you will need to manually configure the encryption settings is if you are creating a custom profile.

4 AirLink101 Wireless Mo	nitor			×
— Wireless Information ————————————————————————————————————				
	Channel:	6		
	Network Name:	default	<u> </u>	
Signal:	IP Address:	192.168.1.101	Connected	
			 	ł
AP List	Profile Setting			
– My Wireless Networks ––––				
default - default			Wireless	
			Monitor	
				-
Ľ				
Profile Details				5
Network Name:				
Network Type:				
Security:				
New	fy Delete	Activate		

Click on Profile Settings then New.

The profile settings box will appear. This is where you will change your encryption settings. As you can see you have five different options to choose from.

Profile Settings	
- Basic Settings	
Profile Name:	default
SSID:	default
Network Type:	Infrastructure     C Adhoc
- Set Security Option	No Security
C WEP	
C WPA/WPA2-PSK	
C WPAMPA2	
C 802.1X	
<ul> <li>None</li> </ul>	
	OK Cancel

These three are meant for the home user:

**None:** No encryption in use

WEP: The most popular but least secure form of encryption

WPA/WPA2-PSK: The most secure and recommended level of encryption

The remaining two are for use in a corporate environment that utilizes authentication servers. If you do not know whether you have an authentication server, you probably don't and will want to stick with the three options above.

#### Configuring WEP encryption

Profile Settings	$\mathbf{X}$
Basic Settings	
Profile Name:	
SSID:	
Network Type: 🕡 infrastru	icture C Adhoc
- Set Security Option	
O WEP	Open C Shared C Auto
C WPAMPA2-PSK	Key:
C WPAMPA2	
C 802.1X	Key Length: Key Index:
C None	64 bits (40+24) - 10 Hexadeci
	Show text in the password field
	OK Cancel

Select WEP from the Set Security Option box.

Under **Wired Equivalent Privacy (WEP)**, select **Shared** or **Open**, depending on the router settings.

In the **Key** box, you need to type in the encryption key for the router. If you check the **Show text in the password field** box, your key will appear in the box as you are typing it instead of showing only asterisks. This is helpful as it allows you to double check the key before saving the changes.

**Key Length** will also be predetermined by the router. Refer to your routers settings to find out what you should select here.

**Key Index** is the key on the router that is currently in use. Refer to your routers settings to find out what you should choose.

Once you are done, click **OK** to save your settings.

Configuring WPA/WPA2-PSK Encryption (for home users)

Profile Settings	$\mathbf{X}$
- Basic Settings Profile Name: SSID: Network Type:	Infrastructure     O Adhoc
Set Security Option — VVEP vvPA/VPA2-PSK VVPA/VPA2 0 802.1X 0 None	Passphrase Settings    Passphrase Settings

Select WPA/WPA2-PSK from the Set Security Option box.

Under **Passphrase Settings** select either **TKIP** or **AES** depending on the settings for your router.

Enter the encryption key into the **KEY** box.

Configuring WPA/WPA2 Encryption (for corporate networks)

Profile Settings	
- Basic Settings	
Profile Name:	
SSID:	
Network Type: 💿 Infrastructure	C Adhoc
Set Security Option	Advanced Security Settings
C WEP	
C WPAM/PA2-PSK	
	Advanced Config
C 802.1X	
C None	L J
	OK Cancel

Select WPA/WPA2 from the Set Security Option box.

Under Advanced Security Settings select either TKIP or AES depending on the settings for your router.

Click on Advanced Config to enter your authentication settings.

Advanced Security Se	ettings		$\mathbf{X}$
EAP Type:	EAP-TLS	•	<b>_</b>
User Certificate O Validate Server Ce	EAP-TLS LEAP EAP-TTLS #PEAP		
User Name		Domair	Name
Password			
Confirm Password			
TTLS Identity			
			Add
			Remove
	ОК	Cancel	

The adapter supports EAP-TLS, LEAP, EAP-TTLS, and PEAP authentication methods. Refer to your system administrator for information about what settings you should enter here.

# Configuring 802.1x authentication (for corporate networks)

Profile Settings	X
- Basic Settings	
Profile Name:	
SSID:	
Network Type:	Infrastructure     C Adhoc
- Set Security Option	Advanced Security Settings
C WEP	
O WPAMPA2-PSK	
	Advanced Config
C None	
	OK Cancel

Select 802.1x from the Set Security Option box.

Click on Advanced Config to enter your authentication settings.

Advanced Security S	ettings 🛛 🔀
EAP Type:	EAP-TLS
User Certificate	EAP-TLS LEAP EAP-TTLS #PEAP
User Name	Domain Name
Password	
Confirm Password	
TTLS Identity	
	Add
	Remove
	OK

The adapter supports EAP-TLS, LEAP, EAP-TTLS, and PEAP authentication methods. Refer to your system administrator for information about what settings you should enter here.

## 4.5 Ad-hoc and Peer-to-Peer Wireless Networks

Ad-hoc networking is used when you want to connect two or more computers together but you don't have a router.

In ad-hoc mode, you lose a lot of the features that come with a router. Instead of being able to operate at 300Mbps, the maximum connection speed is significantly less at 11Mbps. WEP encryption is the only security available in ad-hoc mode.

AirLink101 Wireless Mo	onitor					X
Wireless Information	Channel: Network Name: IP Address:			<b>.</b>	• Connected	Щ
AP List	Profile Setting		About			
My Wireless Networks default - default 				Wir		itor
New	lify Delete	Activate				

To set up ad-hoc mode, you will need to create a new profile.

#### Open the Wireless Monitor.

Click on **Profile Setting**, then click on **New**.

The profile settings box will appear.

rofile Settings
- Basic Settings
Profile Name:
SSID:
Network Type: O Infrastructure   Channel: 6  Channel: 6
- Set Security Option
C WEP
⊙ None
OK

First change the network type to **Adhoc**. (Infrastructure is for when you are using a router).

Enter a profile name into the **Profile Name** box so that you can identify the profile.

Type in a network name (SSID) into the **SSID** box

Select your desired Channel

You can also choose between no security or WEP security. If you choose WEP security, you can follow the instructions in the **Configuring Encryption** section of the manual.

Click **OK** to save the profile.

AirLink101 Wireless M	onitor		X
-Wireless Information			
	Channel: 6		
	Network Name: defa		<b>T</b> . <b>·</b>
Signal:	IP Address: 192	.168.1.102	Connected
AP List			
SSID MAC(BS	SID) S 🛆 S	Secu Chan	
💡 default 00:14:A	5:95:18 62%	6	Wireless
🗼 default680 00:DE:F	A:15:0 100% 🧉	6	Wireless Monitor
			INIGHICOL
<		>	
	Refre	sh Connect	
		A all safe	
default - default	<u> </u>	Activate	

Once that is done, click on the **AP List**.

Select your new profile from the profile chooser and click Activate to enable the profile.

You will need to configure all other computers that you are planning on connecting to your ad-hoc network with the same settings that you input on this screen. Every computer has to be set up exactly the same. If any of the settings are different, the network will not function.

**Troubleshooting:** If you are having trouble connecting, if the connection is slow, or if it is unstable, you will want to try changing channels. Start with channel 1 and work your way up until you find a channel that gives you a stable connection. Each time you change the channel, save the settings, then reboot the computer. Also make sure that you do this on every ad-hoc machine so that they will all be set to the same channel.

# 4.6 About

The About tab shows the Utility, Driver, and Firmware version as well as the MAC address of the adapter.

AirLink101 Wireless Mon	itor				
Signat:	Channel: 6 Network Name: default IP Address: 192.168	3.1.102	<u>.</u>	Connected	
AP List		About			
Driver Version: Utility Version: MAC Address: This Product is	<ul> <li>I.00.00.0000</li> <li>V1.00</li> <li>00:18:02:4A:0A:9C</li> <li>s secured by Odyssey.</li> <li>Link101 All Rights Reserved.</li> </ul>				itor

# **Appendix A – Specifications**

#### **Frequency Band**

• 2.4~2.5 GHz

#### Standards

- IEEE 802.11b / 802.11g
- Draft 802.11n

#### Interface

32bit PCI

#### Antenna type

• 3 external antennas

#### Security

- WPA-PSK (TKIP)
- WPA2-PSK (AES)
- WEP 64/128 bit
- WPA/WPA2
- 802.1x

#### **System Requirements**

- 600 MHz processor or better
- 128 MB RAM
- Available PCI slot

#### **OS Compatibility**

• Windows 2000/XP/Vista

#### Weight

• 354g (antenna included)

#### Dimensions

• 234 x 122 x 23mm (L x W x H)

#### Temperature

- Operating: 0°C to 60°C
- Storage: -20°C to 80°C

#### Humidity

- Operating: 10% to 80% Non-Condensing
- Storage: 5% to 90% Non-Condensing

#### Warranty

• Limited 1-year warranty

#### Safety Approvals

• FCC, CE, IC

# Appendix B – Information

## 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. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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

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.

## **European Union Notice:**

Radio products with the CE marking comply with the R&TTE Directive (1999/5/EC), the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN 60950 Product Safety
- EN 300 328 Technical requirement for radio equipment
- EN 301 489-1/-17 General EMC requirements for radio equipment

# **Technical Support**

E-mail: support@airlink101.com

Toll Free: 1-888-746-3238

Web Site: www.airlink101.com

\*Theoretical maximum wireless signal rate derived from IEEE 802.11g standard and IEEE 802.11n draft specification version 1.0. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, mix of wireless products used, radio frequency interference (e.g., cordless telephones and microwaves) as well as network overhead lower actual data throughput rate. Specifications are subject to change without notice. All products and trademarks are the property of their respective owners. Copyright ©2006 AirLink101<sup>TM</sup> Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

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