



Wireless N PCI Adapter

Model # AWLH6075

User's Manual

Rev. 1.0

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1. Introduction

Congratulations on your purchase of the Wireless N PCI Adapter. Its high bandwidth combined with extended wireless coverage delivers fast and reliable connection for all of your networking applications especially when used with other Airlink101® Wireless N, Wireless 300N products.

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 Monitor utility allows you to set up the adapter with an easy-to-use user interface. Best of all the Wireless N PCI Adapter works with 802.11 b /g / n 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 N PCI Adapter
- 2 Antennas
- Quick Installation Guide
- Installation CD (Driver/Utility/Manual)

1.2 Features

- IEEE 802.11n draft specification 2.0 delivers the highest wireless data rate
- 2 external antennas for wider coverage and continuous connectivity eliminates dead spots
- Wi-Fi Protected Access (WPA2 and WPA) support provide full protection for your wireless connection
- Security Push Button for easy connection to the existing wireless network
- Higher signal strength 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 other AirLink101® Wireless N, Wireless 300N products

2. Install the Wireless PCI Adapter

Step 1 SWITCH THE COMPUTER OFF, remove the cover and insert the wireless PCI adapter into an available PCI slot of your computer.

Step 2 Fasten the 2 antennas to the antenna connectors on the wireless PCI adapter.

Step 3 To improve radio reception, please adjust antennas to the position shown in the following picture.



Step 4 Switch on the computer.

Step 5 Click Cancel when you see the Found New Hardware Wizard.

(Windows XP)

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, or on 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 Yes, now and givery time I connect a device No, not this time
	< <u>B</u> ack Next> Cancel

(Windows Vista)



Step 6 Insert the Installation CD in the CD drive. When the autorun screen pops up, select **Install Utility and Driver**.

	Wireless N PCI Adapter
Install Utility and Driv View User Manual View Quick Installation Install Adobe Reade	on Guide
Browse Exit	Model No.: AWLH6075

Windows Vista Users: When you get warning message(s), make sure that you click **Allow** to continue with the installation of the driver software.

Step 7 Click Next.



Step 8 Click Next to start installing the software.

AirLink101 Wireless N PCI Adapter - InstallShield Wizard	×
Choose Destination Location Select folder where setup will install files.	
Setup will install AirLink101 Wireless N PCI Adapter in the following folder.	
To install to this folder, click Next. To install to a different folder, click Brow another folder.	se and select
Destination Folder C:\Program Files\AirLink101\AWLH6075	Browse
Install5hield	Cancel

For Windows XP, click **Continue Anyway** at the Windows Logo Screen.

Hardwar	e Installation
	The software you are installing for this hardware: Deterministic Network Enhancer Miniport has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) 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 hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

Step 9 Click Finish and restart your computer as prompted.

AirLink101 Wireless N PCI Adapter - InstallShield Wizard								
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed AirLink101 Wireless N PCI Adapter. Click Finish to exit the wizard.							
	< <u>B</u> ack Finish Cancel							

Step 10 You will see the Airlink101 Wireless Monitor pops up.

Airlink101 Wireless	Monitor							x
Profile	LLL Network	کی Advanced	Statistics		W PS	CCX	RF ON	•
Sorted by >>	SSID	🖉 Cha	nnel 🖉	Signal		Show dBm		
airtink101		ゆ。 ゆ。	597 5900	73%				
Rescan	Add to Profi	le Cor	nnect					-

Congratulations! The Wireless N PCI Adapter has now been successfully installed on your computer.

3. Connect to Wireless Network

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

Note: If the Airlink101 Wireless Monitor does not open on your desktop, you can open the Airlink101 Wireless Monitor utility by double clicking on the Airlink101 Wireless Monitor Utility icon in the system tray at the bottom right-hand corner of your screen.

If the icon does not appear in the system tray, go to Start \rightarrow Programs \rightarrow Airlink101 \rightarrow Airlink101 Wireless Monitor.



Step 1 Click on **Network**, you will see the available wireless networks in your environment. Select the wireless network you want to connect to and click on **Connect**.

Airlink101	Wireless	Monitor							x
Pr	P= ofile	Land Network	ر Advanced	Statistics	www.	Ø WPS	CCX	RF ON	-
Sorted b	y >>	SSID	🖉 Cha	innel 🖉	Signal List >>		Show dBm		
			6		65%				_
airlink	101		К <mark>У</mark> 6	🕒 🧕 🚺 🛛	100%				
									=
									Ŧ
Reso	an	Add to Profil	e Cor	nect					-

Step 2 Type in the network key of your wireless network and click OK.

Airlink101 Wireless	Monitor							x
Profile	LLL Network	्र्ि Advanced	Statistics	WMM	() WPS	CCX	RF ON	
Sorted by >>	SSID	🏈 Ch	annel 🥝	Signal st >>	C	Show dBm		
		6	597					^
airlink101		6	- 📴 🤨 🕄 4)	100%				•
								E
								-
Rescan	Add to Profi	le Co	nnect					•
Auth. \ Encry.	802,1x							
Authe	entication >>	WPA2-PSK	Encry	ption >> A	ES 🔻			_
WPA Pres	hared Key >>		******					
Wep	Key							
9	Key#1	Hex	-					
9	Key#2	Hex	-					
9	Key#3	Hex	-					
9	Key#4	Hex	-			_		
			ОК	Cancel				

Step 3 After the adapter connects to the wireless network successfully, a blue triangle will appear at the front of your wireless network.

all A	Airlink101 Wireless	Monitor							×
	Profile	LLL Network	کی Advanced	Statistics	wmm	WPS	CCX	RF ON	-
_	Sorted by >>	SSID	🖉 Cha	innel 🥝 ———— AP Lis	Signal t >>		Show dBm		
Þ	airtink101		ゆ 。		70%				
	Rescan	Add to Profi	le Col	nnect					-

4. Configure Wireless Monitor

This section describes the various functions of the Wireless Monitor that you can configure. Some general functions of this utility will be described here, and the features of each tab will be described in the following sections.

Top Menu: Click on the buttons to go to the specific settings/information you need to change/view.

RF ON/OFF: Click on RF ON/OFF to switch on/off the wireless connection.

SSID	🙆 Cha					About
	-		j Signal .ist >>		Show dBm	
	<u>к</u> о		86%			
	10 6	B 9 0 4	100%			
Add to Profile	Со	nnect				
airlink101-3 <:	> 00-E0-4C-81-9	96-B1		Link Qu	ality >> 100%	
	10001					
		nel : 3	-	Signal Stre	ngth 2 >> 100%	
	., central chain	lict i J				
AES						
Infrastructure				12E 0 Mbor	Max	
192.168.2.101				and the second second		
255.255.255.0			Throughput >>	2.632 Kbps	15.804	
192.168.2.1			Deceive		Kbps	
— нт —				> 162.0 Mbps	Max	
	SNRO >> 22			1.11		
	airlink101-3 < Link is Up [TxPc 1 <> 2412 MHz WPA2-PSK AES Infrastructure 192.168.2.101 255.255.255.0 192.168.2.1	Add to Profile Co airtink101-3 <> 00-E0-4C-81-1 Link is Up [TxPower:100%] 1 <> 2412 MHz; central chan WPA2-PSK AES Infrastructure 192.168.2.101 255.255.255.0 192.168.2.1	Add to Profile Connect airtink101-3 <> 00-E0-4C-81-96-B1 Link is Up [TxPower:100%] 1 <> 2412 MHz; central channel : 3 WPA2-PSK AES Infrastructure 192.168.2.101 255.255.255.0 192.168.2.1	Add to Profile Connect airtink101-3 <> 00-E0-4C-81-96-B1	Add to Profile Connect airtink101-3 <> 00-E0-4C-81-96-B1 Link Question Link is Up [TxPower:100%] Signal Street Link is Up [TxPower:100%] Signal Street 1 <> 2412 MHz; central channel : 3 WPA2-PSK AES Transmit Infrastructure Link Speed >> 135.0 Mbps 192.168.2.101 Throughput >> 2.632 Kbps 192.168.2.1 Receive	Add to Profile Connect airtink101-3 <> 00-E0-4C-81-96-B1 Link Quality >> 100% Link is Up [TxPower:100%] Signal Strength 1 >> 100% 1 <> 2412 MHz; central channel : 3 Signal Strength 2 >> 100% WPA2-PSK Signal Strength 2 >> 100% AES Transmit 192.168.2.101 Throughput >> 2.632 Kbps 192.168.2.1 Receive

Click on the down/up arrow on the right hand side to display or hide the Status.

Status: Display the SSID and BSSID of connected wireless access point or wireless device (displayed as SSID<-> BSSID as shown in above picture. If there's no active connection currently, 'Disconnected' will be displayed here.

Extra Info: Displays the link status ('Link is up' or Link is down', and the radio transmitting power of your network card.

Channel: Displays the radio channel being used now.

Authentication: Shows the authentication mode that access point or wireless device uses. If the wireless access point does not require authentication, you'll see 'Unknown' displayed here.

Encryption: Shows the encryption method that access point or wireless device uses. If the wireless access point does not enable encryption, you'll see 'None' displayed here.

Network Type: Shows the type of wireless connection. If it's a wireless access point, 'Infrastructure' will be displayed here; if it's a computer or network device, 'AdHoc' will be displayed here.

Link Speed: Displays the link speed of data transmitting (Tx, in Mbps) and receiving (Rx, in Mbps). Link speed is the maximum available data transfer speed of the wireless connection. It depends on the radio signal quality of wireless connection.

Throughput: Displays the rate of data transmitting (Tx, in Kbps) and receiving (Rx, in Kbps).

Link Quality: Displays link quality (radio signal quality). When the link quality is better, the wireless link speed will be better, too. Link quality is displayed by percentage and a descriptive word (Good, normal, weak, and low).

Signal Strength 1: Displays the radio signal strength of antenna 1.

Signal Strength 2: Displays the radio signal strength of antenna 2.

4.1 Profile

The **Profile** tab lists the current profiles and allows you to manage and create new profiles.

ıll Airl	ink101 Wireles	ss Monitor							×
	Profile		Advanced	Statistics	wmm	W PS	CCX	RF ON	-
		Profi	le List						
н	ome	airlink101		₽ø		Profile Name >> 0	Office		
Of	fice	airlink101-12		₽¢		SSID >> a Network Type >> 1	nirlink101-12 nfrastructure		
						Authentication >> \	VPA-PSK		
						Encryption >> 1	KIP		
						Use 802.1x >> N	10		
						Tx Power >> A	luto		
						Channel >> A			
						Power Save Mode >> (
					1.00	RTS Threshold >> r			
	dd Eo	dit Delete	Import	Export Activ	ate Fra	agment Threshold >> r	n/a		
									_

The **Profile List** box lists all the profiles that you've created for your networks. You can create a profile for a wireless network you use very often at certain area, such as the wireless network at your home or office so that you can interchange connections more easily. You will need to manually add in these profiles.

To modify an existing profile, select the profile from the **Profile List** box and click **Edit**.

To create a new profile, click **Add**. Enter a **Profile Name** and **SSID**. Enter the encryption settings for the profile. Click **OK** to save the changes.

If you want to create a profile for an existing wireless network, please refer to Section 4.2, Step 1 to 4.

To delete a profile, select the profile you want to delete, and click **Delete**.

To export all profiles, click **Export** and select a destination folder from the popup window to export all profiles.

To import profiles, click **Import** and select a profile you wish to import from your file directory and click **OK** to start importing your profiles.

To activate a profile, select the profile you wish to connect and click Activate.

4.2 Network

The Network tab lists all of the available networks that the network card detects in your area.

Rescan: Clicking Rescan will refresh the network list.

Connect: To connect to a wireless network, please refer to Step 1 to 3 in Chapter 3.

Add to Profile: To add a network to profile, please follow the instructions below.

Step 1 Under Network tab, select a desired network, and click Add to Profile.

Step 2 Specify a **Profile Name**, and configure other settings if needed when the "System Config" box appears below, Click **OK**.

all -	Airlink101 Wireless N	Monitor						X
	Profile	Network	کی Advanced	Statistics	wmm	WPS	CCX R	👔 🔿
	Sorted by >>	O SSID	🖉 Cha		Signal st >>		Show dBm	
			6					•
	airlink101		ě.	🛛 💆 🚺 🤅				
	airlink101-11		10 6	b g 🗴 🤅				
	airlink101-12		6	🔥 🧕 🐧 🦸	100%			E
	airlink101-3		1	🕒 🧕 🗓 🦸	100%			
	default-150		11	🕒 🤨 🗓 🕤	86%			
	Fossa		К р е	🕒 🧕 🗍	23%			-
	Rescan	Add to Profil	le Cor	nnect				
	System Config	Auth. \ Encr	r y. 80	2,1x				
l '								
	Profile Name	e >> Home			Network Type >>	Infrastructure	•	
	SSI	D >> airlink101		_	Tx Power >>	Auto	•	
					Preamble >>	Auto	-	
	Power Save	e Mode >> 🕜 C/	AM 🖉 I	PSM				
	RTS T	hreshold	0 -		<u>)</u> 2347	2347		
	Frag	ment Threshold	256 🗕) 2346	2346	Diagnosis Cap	able
				ОК	Cancel			

Profile Name: Please give this profile a name, up to 32 alphanumerical Characters and symbols are allowed, but space is not allowed.

SSID: The SSID of the wireless access point or wireless device you selected will be displayed here. But if the SSID of access point or wireless device is not available, you have to input it here manually.

PSM (Power Saving Mode): Select CAM (constantly awake mode, keeping the wireless radio activity when not transferring data), or PSM (Power saving mode, switching radio off when not transferring data).

Network Type: Select network type ('Ad Hoc' or 'Infrastructure'). If you're adding a profile from an existing access point or wireless device, it's automatically selected and you don't have to change it.

TX Power: You can select the radio output power of wireless network card. You may not need full radio power if you're not far from wireless access point, and only use a high setting here if you found that radio reception is bad. If you don't know which one to use, select 'Auto'.

Preamble: This option is only available when the network type is 'Ad hoc'. You can select 'Auto' or 'Long Preamble'. Please select 'Auto' if you don't know what it is.

RTS Threshold: Check the box and you can set RTS threshold manually here. It is not recommended to modify default setting unless you know what result it will cause.

Fragment Threshold: Check the box and you can set fragment threshold manually here. It is not recommended to modify default setting unless you know what result it will cause.

Step 3 Enter the security settings of the wireless network you try to connect to. The utility, Wireless Monitor will automatically detect the Authentication and Encryption mode. Click **OK**.

Authentica	tion >>	WPA2-P5K	· _	Encryption >>	AES	•	_
WPA Preshared	Key >>			********			
Wep Key							2
🙆 Key	r#1	Hex	-				
🙆 Key	/#2	Hex	-				
🙆 Key	/#3	Hex	-				
🏈 Key	r#4	Hex		0			

Airlink101 Wireless Monitor х P Ì () WPS Ta. 9 顅 RF ON CCX Profile Network Advanced Statistics WMM Profile List 96 Profile Name >> Home SSID >> airlink101 Network Type >> Infrastructure Authentication >> WPA2-PSK Encryption >> AES Use 802.1x >> NO Tx Power >> Auto Channel >> Auto Power Save Mode >> CAM RTS Threshold >> n/a Edit Delete Activate Add Import Export Fragment Threshold >> n/a

Step 4 Select the profile you just created and click **Activate**.

4.3 Advanced

This wireless network card provides several advanced settings for experienced wireless users. You can change these settings to increase data transfer performance, or change operation mode.

ull Airlin	nk101 Wireless	Monitor							x	
	Profile	Network	ر Advanced	Statistics	wmm	WPS	CCX	RF ON	•	
Wire	less mode >>	2.4G	•							
	 Enable TX Burst Enable TCP Window Size Fast Roaming at -70 dBm 									
118	Select Your Country Region Code 11B/G >> 0: CH1-11									
	Apply								-	

Wireless mode: Select wireless mode, only 2.4G (single bandwidth) is available here.

Enable TX Burst: Check this box to accelerate the data transmit rate. It may not work with all wireless access points and wireless devices.

Enable TCP Window Size: Check this box and the configuration utility will adjust TCP window size automatically to get better performance. It should be safe for most of wireless environments, but if you found some problem on data transfer, uncheck this box.

Fast Roaming at: Check this box and you can adjust the threshold of when this wireless network card should switch to another wireless access point with better signal quality. Only adjust value when you know what result it will cause.

Select Your Country / Region Code: Select the country / region code of the place you're living. Different country / region has different regulations on wireless devices, and it's forbidden to use certain channel (radio frequency) in some countries or regions. For instance, only channel 1~11 are allowed in US and Canada. Please select the country and region code according to the place you live. (This option may be disabled for certain countries due to emission safety regulations.) Click Apply to save the new settings.

4.4 Statistics

The Statistics section gives you information about transmit and receive packet count.

III Airlink101 Wirele	ss Monitor							X
Profile	Network	्र्ि Advanced	Statistics	wmm	Ø WPS	CCX	RF ON	\$
Transmit	Receive							
Frame	s Transmitted Succe	essfully		-	1282			
Frame	s Retransmitted Suc	cessfully		=	437			
Frame	s Fail To Receive AC	K After All Retries		-	10			
Reset Counte	r.							
Reset Counte								-

Click Reset Counter to reset all counters to zero.

4.5 WMM

The AWLH6075, Wireless N PCI Card provides QoS (Quality of Service) function, which can improve the performance of certain network applications, like audio / video streaming, network telephony (VoIP), and others. When you enable WMM (Wi-Fi MultiMedia) function of this network card, you can define the priority of different kinds of data, to give higher priority to applications which require instant responding. Therefore you can improve the performance of certain network applications.

Airlink101 Wireless Monito	or	area in	-	Trap:	ion .	fating		×
Pille Ne	twork Adv	ැම න්ත vanced Sta	atistics		() WPS	CCX	RF ON	
WMM Setup Status								
WMM >> Enabled	Po	wer Save >> Disal	bled			Direct Link >> Disa	ibled	
🖉 WMM Enabl	le							
- www	Power Save Enable	e						
A 4	С_ВК 🔲	AC_BE	AC_VI	AC_	VO			
Direct	Link Setup Enable							
MAC A	ddress >>			Timeout Val	ue >> 60	sec		
							Apply ar Down	•

WMM Enable: Check this box to enable WMM function. Please click 'Apply' button on the right of this check box after you check or uncheck this box, so corresponding settings in this window will be activated or deactivated respectively.

WMM - Power Save Enable: Enable WMM power saving mode to save energy and let your battery live longer.

AC_BK (Background / Low Priority), AC_BE (Best Effort), AC_VI (Video First), and AC_VO (Voice First): Check one or more options; when the checked type of data is transferring, power saving function will be disabled.

Direct Link Setup Enable: Enable or disable direct link setup (DLS) function. This function will greatly improve the data transfer rate between WMM-enabled wireless devices. <u>This function only works when the network card connects to an AP</u> or wireless router with DLS enabled.

MAC Address: Input the MAC address of another WMM-enabled wireless device you wish to establish a direct link here, then click 'Apply' to add this MAC address to DLS address table.

Timeout Value: Input the timeout value of this WMM-enabled direct link wireless device. If the wireless device is not responding after this time, it will be removed from DLS table.

Tear Down: If you want to remove a specific wireless device from DLS table, select the device and click this button to remove it.

4.6 WPS (Security Push Button)

WPS is a new and easy way to configure the encryption for your wireless network clients. In order to use it, you need to have a router that supports this feature, like the AR675W Airlink101 Wireless N Green Router. You also need to configure the wireless encryption on the router; you should find the instructions for configuring it in the router User Manual. If your wireless router does not support WPS, you will need to set up the wireless security manually and you can skip this section.

We are using the AWLH6075 Wireless N PCI Adapter and the AR675W Airlink101 Wireless N Green Router to illustrate the following setup instructions.

Step 1 Open the Airlink101 Wireless Monitor. Click the WPS tab.

Choose your configuration method:

- For **Pin Input** method, write down the <u>Pin Code</u> on a piece of paper then click PIN button, continue to Step 2a

irlink101 Wire	ess Monitor								
Profile		Advanced	Statistics	www.	() WPS	CCX	RF ON		
WPS AP List									
ID:	airlink1	01	00-1F-1	IF-1F-7E-CE			Rescan Information		
ID:	airlink1	01-3	00-E0-4C-81-96-B1 1			₽ ₽	Pin Code		
WPS Profile List						Config Mode			
							Detail Connect		
PIN WPS Associate IE PBC WPS Probe IE					Rotate Disconnect Export Profile				

- For **Push Button** method, click PBC button, or push the Security Push Button on the PCI card for couple seconds. Continue to **Step 3a**.



Step 2a If you selected PIN Input method, go to a computer that is connected to your Wireless Router. Open the browser; enter <u>http://192.168.2.1</u> into the URL address bar.

Note: 192.168.2.1 is the default IP address of AR675W Wireless N Router; you might have a different one for your residential gateway. Please contact your ISP / router's manufacture for more information.

p!	Tools	Help	
	۵ (192.168.2.1	
н	ome		

Step 2b Enter admin for both the user name and password and click OK.

Connect to 192	.168.2.1 🛛 🖓 🔀
	G G
Default: admin/adi	min
User name:	🔮 admin 💌
Password:	••••
	Remember my password
	OK Cancel

Step 2c Click on Wireless > WPS on the left menu bar. Make sure the "**Disable WPS**" is NOT checked.

	Wireless N Router Setup
AR675W	
Setup Wizard Network Wireless	Wi-Fi Protected Setup This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your wireless client automically syncronize its setting and connect to the Router in a minute without any hassle.
Basic Settings Wireless Security MAC Control Advanced Settings Wireless Schedule WPS Application & Gaming	Disable WPS WPS Status: Configured InConfigured Reset to UnConfigured Self-PIN Number: Push Button Configuration: Start PBC Apply Changes
Access Restrictions Security Administration Status	Client PIN Number: Start PIN

Step 2d Enter the PIN number you just wrote down into the **Client PIN Number** box and click **Start PIN**. Continue to **Step 4**.

Step 3a If you selected PBC method, click the Reset/WPS button on the back of the router for 3 seconds.



Step 4 The Router will now start the handshake with the wireless adapter which will take about 2 minutes. When you see the window similar to the one below, the connection has been established.

Airlink101 Wireless	s Monitor							X
Profile	لملل Network	Advanced	Statistics	Cos	() WPS	CCX	RF ON	
	D							
ID:	airlink101	-3	00-E0-4	IC-81-96-B1	1	-	Rescan Information	
ID: airlink101-11			00-1F-1F-52-62-4D 3			9	Pin Code	
10			00.45			•	00562157 Renev	w.
		WPS	Profile List				Config Mode	
airlink101-3							Enrollee	-
							Detail	
							Connect	100
<u>P</u> IN	WPS Associate	IE		Progress >> 10	00%		Rotate	
P <u>B</u> C	WPS Probe IE	PBC - 0	Get WPS profile suc	cessfully.			Disconnect	1000
							Export Profile	100
							Delete	100
								•

Note: If you cannot connect successfully with WPS, you need to log in to your router's configuration page and click on **Wireless**. Then click **WPS**. Make sure that Disable WPS box is unchecked, refer to Step 2c.

4.7 CCX

Enable Cisco Compatible eXtensions. CCX is a wireless feature developed by Cisco used to improve the wireless performance with CCX compatible wireless devices. Check this box if you need to connect to CCX-compatible wireless devices.

Airlink101 Wireless Monitor							x
Profile Network Ad	vanced	Statistics		Ø WPS	CCX	RF ON	
Enable CCX (Cisco Compatible eXtensions	;)						
		CAC >>	ADDTS(Di	rectly send TS)	•	Set	
 Enable Radio Measurements Non-Serving Channel Measurement 	nts limit	Diagnosis >>	Select P	rofile Home	Y	Diagnose	
250 ms(0-2000)		Information of selected profile					
NetworkEAP		Prot	iile Name >>	Home			
Roaming with RF Parameters			ssid >>	airlink101			
Roaming with CAC		Diagnosis	Capable >>	NO			
Apply							

Enable Radio Measurements: When you're connecting to CCX-compatible access point, check this box to enable radio measurement function to improve wireless connectivity.

Non-Serving Channel Measurements: When you're connecting to CCX-compatible access point, check this box to enable measurement on unused radio channels to improve wireless connectivity.

Limit (ms): Limit the time used for said measurement to a milliseconds certain time. Default value is 250.

NetworkEAP: In wireless connection using EAP, a user requests connection to a wireless network through an AP, which then requests the identity of the user and transmits that identity to an authentication server such as RADIUS. Check this box to enable Network EAP function if you need to use this feature.

Roaming with RF Parameters: A default set of RF Parameters defined by Cisco are used to set the RF thresholds adopted by the client to decide when to roam. Check this box to enable Roaming with RF Parameters function.

Roaming with CAC: The CAC means Call Admission Control. Check this box to enable Roaming with CAC if you need to use this feature.

Click **Apply** to save the settings you have made.

4.8 About

The **About** window provides the information about the Wireless Monitor Utility version and the current driver version.

ul Airli	nk101 Wireless	Monitor							x
	Network	کی Advanced	Statistics	Cos WMM	Ø WPS	CCX	RF ON	About	
		(c)	Copyright 2009, /	Airlink101. All righ	ts reserved.				
		Utilit	y Version >>	2.2.8.0	Date >> 07-15-2009				
		Drive	r Version >>	2.3.2.0	.0 Date >>		-2009		
		EEPRO	M Version >>	1.2	Firmware Ver	sion >> 0.19			
		Phy	/_Address >>	00-0E-2E-44-82	-CE				
			1000	www.a	irlink101.com				
									-

Troubleshooting

1. If you cannot open the wireless monitor utility, make sure that the PCI adapter is inserted firmly into the PCI slot.

2. If you cannot connect to the wireless router, you may want to double check the wireless security settings on the router. The network key you entered into the Wireless Monitor utility must match with the settings on the wireless router.

3. If you are experiencing problems with the connection such as low signal strength, slow connection speed, or unstable wireless connection, you can try to tune your router's signal by changing the channels on the router and/or by adjusting the direction of the antenna(s). You do not need to change the channel on the Adapter; it will automatically pick up the new channel after you reboot the router. Your router has 11 different channels to choose from. 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 comes with the router.

Appendix - 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 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 or more of the following measures:

1. Reorient or relocate the receiving antenna.

2. Increase the separation between the equipment and receiver.

3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4. Consult the dealer or an experienced radio technician for help.

FCC Caution

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

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

Technical Support

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^{*}Theoretical maximum wireless signal rate derived from IEEE standard 802.11g and draft 802.11n specifications. 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. This product is based on IEEE draft 802.11n specification and is not guaranteed to be compatible with future versions of IEEE 802.11n specification. Compatibility with draft 802.11n devices from other manufactures is not guaranteed. Specifications are subject to change without notice. Photo of product may not reflect actual content. All products and trademarks are the property of their respective owners. Copyright ©2009 Airlink101®

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