# MiniPCI 802.11b/g Wireless Card

## 802MAG

## User's Manual

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### 2. Introduction

Thank you for purchasing MiniPCI 802.11b/g wireless lan Module. This manual will assist you with the installation procedure.

The package you have received should contain the following items:

- Mini PCI 802.11b/g Wireless LAN Card
- User manual
- CD containing Wireless LAN Management utility and driver software.

Note: if anything is missing, please contact your vendor

### 3. MiniPCI 802.11b/g Wireless Lan Card Basics

Wireless systems offer a great number of advantages over a traditional, wired system. MiniPCI Wireless LAN Card are more flexible, easier to setup and manage and often more cost effective than their wired equivalence.

With Mini PCI wireless LAN Card users can access shared information without looking for a place to plug in and network managers can set up or augment networks without installing or moving wires. MiniPCI Wireless LAN Card offers the following productivity, convenience and cost advantages over traditional wired networks.

- Mobility Wireless systems can provide LAN users with access to real-time information anywhere in their organization. This mobility supports productivity and service opportunities not possible with wired networks.
- Installation Speed and Simplicity Installing a MiniPCI Wireless LAN Card system can be fast and easy and can eliminate the need to pull cable through walls and ceilings.
- Installation Flexibility wireless technology allows the network to go where wires cannot go.
- Reduced Cost-of-Ownership While the initial investment required for MiniPCI Wireless LAN Card hardware might be higher than the cost of wired LAN hardware, overall installation expenses and life-cycle costs will be significantly lower. Long- term cost benefits are greatest in dynamic environments requiring frequent moves, adds, and changes.
- Scalability MiniPCI Wireless LAN Card systems can be configured in a variety of topologies to meet the needs of specific applications and installations. Configurations are easily changed and range from peer-to-peer networks suitable for a small number of users to full infrastructure networks of thousands of users that allows roaming over a broad area.

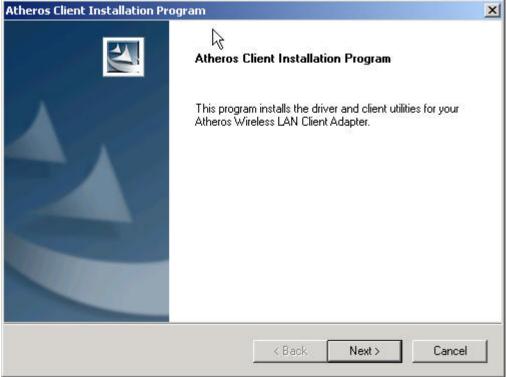
### 4. Installation and Overview

Here are some steps you will perform in establishing your wireless network connection:

- 1. Install Atheros Utility using the Installation CD.
- 2. The Installshield Wizard will showed up
- 3. Please choose the language in **English**

Section 17
Next > Cancel

4. The "Atheros Client Installation Program" will show up, please click Next.



5. Please click I accept the terms of the license agreement. Then click Next

Atheros Client Installation Program			×
License Agreement	əfully.		4
Atheros Communications, Inc. Agreement		Software License	<u>-</u>
PLEASE READ THIS SOFTWARE LICENSE A BEFORE USING THE ATHEROS SOFTWARE SOFTWARE, YOU ARE AGREEING TO BE BO LICENSE.	. BY USING T	HE ATHEROS	
IF YOU DO NOT AGREE TO THE TERMS OF SOFTWARE. IF YOU DO NOT AGREE TO TH RETURN THE ATHEROS SOFTWARE TO TH FOR A REFUND. IF THE ATHEROS SOFTWA	E TERMS OF E PLACE WH	THE LICENSE, YOU MAY ERE YOU OBTAINED IT	-
<ul> <li>I accept the terms of the license agreement</li> <li>I do not accept the terms of the license agree</li> </ul>	ement	Print	
InstallShield			
	< Back	Next > Can	cel

6. Recommended you to click Install Client Utilities and Driver and then click Next

eros Client Installation Program Setup Type Select the setup type that best suits your needs.	5	
Click the type of setup you prefer.		
Install Client Utilities and Driver Install Driver Only Make Driver Installation Diskette(s)	Description Choose this option to instal driver and client utilities. Th the recommended option.	
allShield	< Back Next > Ca	ancel

7. Please click **Yes** to continue.

Question	
?	The option you have selected requires the system to be rebooted at the end of the operation. Do you wish to continue?
	Yes No

8. Please click **Browse** to find the Atheros driver destination location. And then click **Next** 

Choose Destination Location Select the folder where the installatior	n program will install the fil	es.	24
The installation program will install the	client utilities in the follow	ving location:	
- Destination Folder			
Destination Folder C:\Program Files\Atheros			Browse
			Browse

#### 9. Please click **OK** to continue



10. Wait, while Setup is performing the request operations.

Setup Status	4	124
Atheros Client Installation Program is c	configuring your new software insta	llation.
Installing Atheros Configuration Servic	e	
InstallShield		
		Cancel

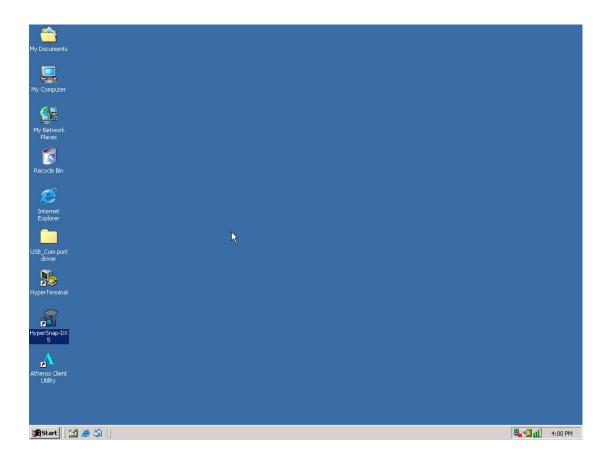
11. "Digital Signature Not Found" will appear, please click Yes to continue

Digital Signature Not Fo	und		×
	The Microsoft digital sign been tested with Window been altered since it was The software you are abo Microsoft digital signature guarantee that this softw Windows. Atheros AR5005G Wi	vs and that the so tested. but to install does to Therefore, there are works correct	ftware has not not contain a e is no ly with
	If you want to search for software, visit the Windov http://windowsupdate.mi available. Do you want to continue	ws Update Web's crosoft.com to se	ate at
	Yes	No 1	More Info

12. Recommend you to choose **Yes, I want to restart my computer now** Please click **Finish** to complete the installation



13. If you install the driver successfully. The Atheros Icon will be showed up.



14. You could double click the Atheros Icon to check the Signal Strength.

\Lambda Atheros Client Utility - Current	Profile: IA-Lab	? ×
Action Options Help		
Current Status Profile Management	Diagnostics	N (
Profile Name:	IA-Lab	Total B0211
Link Status:	Associated	ATHEROS
Wireless Mode:	2.4 GHz 54 Mbps	IP Address: 169.254.100.204
Network Type:	Infrastructure	Current Channel: 9
Server Based Authentication:	None	Data Encryption: WEP
Signal Strength:		Excellent
		Advanced

#### 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.

#### Statement

Actiontec declares that US model of 802MAG, (FCC ID: LNQ802MAG) is limited in CH1~CH11 for 2.4 G band by specific firmware controlled by the manufacturer and is not user changeable.

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IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

## This device is intended only for OEM integrators under the following conditions:

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- 2) The transmitter module may not be co-located with any other transmitter or antenna,
- 3) For all products market in US, OEM has to limit the operation channels in CH1 to CH11 for 2.4G band by supplied firmware programming tool. OEM shall not supply any tool or info to the end-user regarding to Regulatory Domain change.

As long as 3 conditions above are met, further <u>transmitter</u> test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, Broadband Home Router, etc.).

**IMPORTANT NOTE:** In the event that these conditions <u>can not be met</u> (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID <u>can not</u> be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

#### End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains FCC ID: LNQ802MAG".

#### Manual Information To the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.