Dual-Band (draft) Wireless Network Adapter User Manual

Model: GL2554MP-0A

version 1.0

Manufacturer's Disclaimer Statement

The information in this document is subject to change without notice and does not represent a commitment on the part of the vendor. No warranty or representation, either expressed or implied, is made with respect to the quality, accuracy or fitness for any particular purpose of this document. The manufacturer reserves the right to make changes to the content of this document and/or the products associated with it at any time without obligation to notify any person or organization of such changes. In no event will the manufacturer be liable for direct, indirect, special, incidental or consequential damages arising out of the use or inability to use this product or documentation, even if advised of the possibility of such damages. This document contains materials protected by copyright. All rights are reserved. No part of this manual may be reproduced or transmitted in any form, by any means or for any purpose without expressed written consent of its authors. Product names appearing in this document are mentioned for identification purchases only. All trademarks, product names or brand names appearing in this document are registered property of their respective owners.

FCC STATEMENT

This product has been tested and complies with the specifications 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 according to 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 is found 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:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

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.

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

The antenna must be installed such that 20 cm is maintained between the antenna and users, and

2) The antenna should be integral if the end device is intended to be operated in $5.15 \sim 5.25$ GHz frequency range.

As long as 2 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, digital device emissions, PC peripheral requirements, 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 (for example: Wireless Access Point and Wireless Router). The final end product must be labeled in a visible area with the following: "Contains TX FCC ID: O7J-GL2554MP-0A".

Manual Information That Must be Included

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 users manual of the end product which integrate this module.

The users manual for OEM integrators end users must include the following information in a prominent location " IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter".

If the end product integrating this module is going to be operated in $5.15 \sim 5.25$ GHz frequency range, the warning statement in the user manual of the end product should include the restriction of operating this device in indoor could void the user's authority to operate the equipment.

Driver Installation

Step 1: Insert the Dual-band Wireless Network Adapter into your computer.Windows Found New Hardware Wizard will come up.Select the second option and click "Next" to continue.



Step 2: Select the driver to install.

Click "Browse" to select the folder where you store the driver files.

Click "OK" to continue.

Click "Next" to continue.

F	ound New Hardware Wizard	
	Browse For Folder ? X Select the folder that contains drivers for your hardware.	
	ACU ACU	earch, which includes local nstalled.
	iags	Browse
	To view any subfolders, click a plus sign above.	/indows does not guarantee that vare.
	OK Cancel	Next > Cancel

Step 4: Driver Found

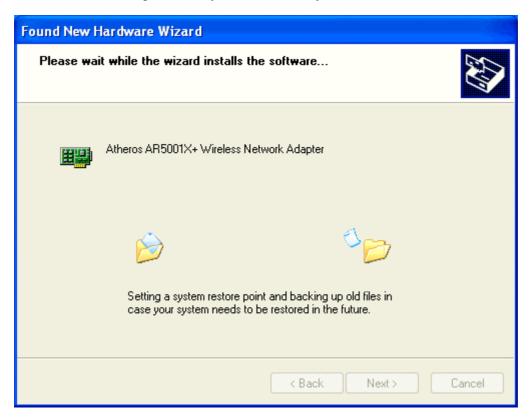
Found New Hardware Wizard				
Please wait while the wizard searches				
- <mark></mark>	Ethernet Controller			
	< Back Next > Cancel			

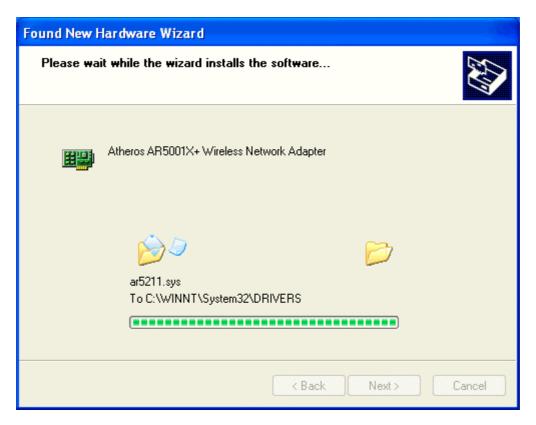
Click "Continue Anyway" to continue

Fou	Found New Hardware Wizard					
F	Please wait while the wizard installs the software Hardware Installation					
	The software you are installing for this hardware: Atheros AR5001X+ Wireless Network Adapter 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	Cancel				

Step 3: Driver Installation

Driver files are being saved to your Windows system.





Step 4: Driver Installation Complete

Click "Finish" to complete the driver setup.

Found New Hardware Wizard				
	Completing the Found New Hardware Wizard			
	The wizard has finished installing the software for:			
	Atheros AR5001X+ Wireless Network Adapter			
	Click Finish to close the wizard.			
< Back Finish Cancel				

The following message will appear as soon as you successfully installed the driver for your Dual-band wireless network adapter.



Utility Configuration

Current Status

Display the current settings such as Profile Name, Network Type, Wireless Mode, Current Channel, Link Status and Encryption type.

\Lambda Atheros Client Utility - [Atheros AR5001X+ Wireless Network Adapter] 🛛 🛛 💽 🔀						
Action Options Help						
Current Status Profile Management Diagnostics						
	Profile Name:	Default				
ATHEROS	Network Type:	Access Point				
DRIVEN.	Wireless Mode:	5 GHz 108 Mbps				
	Current Channel:	Scanning				
S × ∠	Link Status:	Disconnected				
	Encryption Type:	Off				
SIGNAL STRENGTH: POOR Advanced						

Click on the "Advanced" button to change display details.

Atheros Client Utility - [Ather	os AR5001X+ Wireless Net	work Adapter]	×
Advanced Status		? 🛽	
ATHEROS	Country: Transmit Power Level: Network Name (SSID):	UNITED_STATES 100%	
DRIVEN	QoS: Power Save Mode:	Disabled Normal	
K. I	Frequency: Transmit Rate:	Scanning 12 Mbps	
×	Receive Rate:	12 Mbps	
SIGNAL STRENGTH: POOR	IP Address:	0.0.0.0 OK]
			-

Profile Management

Create profile for the common wireless networks that you get connected to. You may create new profile by clicking on the "New" button, and modify the existing

\Lambda Atheros Client Utility - [Atheros AR5001X+ Wireless Network Adapter] 🛛 🛛 💽 🔀					
Action Options Help					
Current Status Profile Management Diagnos	tics				
Profile	Default	_	New		
			Modify		
ATHEROS			Remove		
DRIVEN			Activate		
Details	Network Type:	Access Point			
lls x ⊨	Security Mode: Network Name 1 (SSID1):	Disabled <empty></empty>			
	Network Name 2 (SSID2):				
SIGNAL STRENGTH: POOR	Network Name 3 (SSID3): <empty></empty>	<empty></empty>			
		Scan Availa	able Networks		

profile settings by clicking on the "Modify" button.

Available Access Points an	d Ad Hoc Networks			? 🛛
ATHEROS DRIVEN	Network Name (SSID) default USR2249-Linksys ben2	(ট) Signal Strength রা] 19 dB অঞ্জ রা] 51 dB অঞ্জ রা] 13 dB	Channel 52 2 10	Wireless Mode 5 GHz 54 Mbps 2.4 GHz 11 M 2.4 GHz 11 M
SIGNAL STRENGTH: POOR				
	Activate	Refresh		OK

Click on "Scan Available Network" to scan for the nearby wireless network.

Select the wireless network that you wish to get connected to and click "OK" to continue.

In "General" Tab, Enter "Profile Name", and enter SSID for this profile.

Profile Management		? 🗵
General Security Advanced		
	Profile Name:	Default
	Network Names:	
ATHEROS DRIVEN	SSID1:	
EE 🔽	SSID2:	
×	SSID3:	
SIGNAL STRENGTH: POOR		
		OK Cancel

In "Security" Tab, select the security mode, and enter the WEP key if you enable the Pre-Shared Keys option. Click "OK" for the changes to be effective.

Profile Management		? 🗙
General Security Advanced		
ATHEROS DRIVEN	Security Mode: O Dynamic Security Pre-Shared Keys O Disabled	
User Name: Password:		
	Define Pre-Shared Keys OK	ancel

In the "Advanced" Tab, select the Power Save mode, Network Type and other advanced options. Click "OK" for the changes to be effective.

Profile Management		? 🛛
General Security Advanced		
	Power Save Mode:	Normal
	Network Type:	Access Point
ATHEROS	802.11b Preamble:	Short & Long C Long Only
DRIVEN'	QoS: Disabled	Disabled 🗾
	Transmit Power Level:	100%
Wireless Mode	Wireless Mode When Star	ting Ad Hoc Network
 5 GHz 54 Mbps 5 GHz 108 Mbps 2.4 GHz 11 Mbps 2.4 GHz 54 Mbps 	 5 GHz 54 Mbps 5 GHz 108 Mbp 2.4 GHz 11 Mbp 2.4 GHz 54 Mbp 	s Channel: <mark>Auto 🔽</mark> is
		OK Cancel

\Lambda Atheros Client Utility - [Atheros A	R5001X+ Wireless Netwo	ork Adapter]	? 🔀	
Action Options Help				
Current Status Profile Management Diagn	ostics			
Trans	mit Multicast Frames: 2041			Diagno
	Broadcast Frames: 0			stics
ATHEROS	Unicast Frames: 0			
🔥 Atheros Client Utility - [Atheros A	R5001X+ Wireless Netwo	ork Adapter]	? 🗙	D 1
Advanced Statistics			? 🛛	Display
				current
Transmit	Frames Transmitted OK:	0		statistics
	Frames Retried:	0		such as
	Frames Dropped:	0		Transmitti
ATHEROS	Beacons Received:	0		ng and
DRIVEN'	Frames Received OK:	0		-
	Frames Received With Errors:	0		Receiving
11	Encryption Errors:	0		packets.
	Duplicate Frames:	0		
	CTS Frames:	0		
	Authentication Rejects::	0		Click on
SIGNAL STRENGTH: POOR	Association Rejects:	0	,	
		10	ОК	"Advance
				d
				Statistics"

to display more detail information

Click "Driver Information" to display driver version and other detail information.

\Lambda Atheros Client Utility -	Atheros AR50	001X+ Wireless Network Adapter]	? 🗙
Driver Information			? 🔀
ATHEROS DRIVEN	Card Name: MAC Address: Driver:	Atheros AR5001X+ Wireless Network Adapter	
⊌×□	Driver Version:		
SIGNAL STRENGTH: POOR	Driver Date:		<u>ок</u>

Click on "Action" on the menu selection to access functions such as "Disable Radio",

A Atheros Client Ut	tility - [Atheros AR5(001X+ Wireless Netw	/ork Adapter] 🛛 ? 🔀			
Action Options Help						
Disable Radio Country Select Disable Tray Icon	Management Diagnostic	28				
Exit	J	Profile Name:	Default			
ATHEROS DRIVEN		Network Type:	Access Point			
		Wireless Mode:	5 GHz 54 Mbps			
	7	Current Channel:	Scanning			
	_	Link Status:	Disconnected			
		Encryption Type:	Off			
SIGNAL STRENGTH: POOP	R		Advanced			

"Country Select..." and "Disable Tray Icon"

Click "Options" to display current settings.

\Lambda Atheros Client Utility - [Atheros AR5001X+ Wireless Network Adapter] 💫 💽						
Action Options Help	_					
Currer Display Settings ent Diagnostics						
	Profile Name:	Default				
	Profile Name.	Derauk				
ATHEROS DRIVEN	Network Type:	Access Point				
	Wireless Mode:	5 GHz 108 Mbps				
⊌×⊒	Current Channel:	Scanning				
	Link Status:	Disconnected				
	Encryption Type:	Off				
SIGNAL STRENGTH: POOR		Advanced				

Federal Communication Commission Interference Statement