

Wireless AC1200 USB High Gain Adapter

Model # AWLL7086HG

User's Manual

Rev. 1.0

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1. Introduction

Congratulations on your purchase of the Wireless AC1200 USB High Gain Adapter. The compact design gives you more flexibility and its high bandwidth combined with extended wireless coverage delivers fast and reliable connection for all of your networking applications. The adapter will yield a higher throughput is it is used with other Airlink101® Wireless N products.

A full range of security features such as WEP, WPA-PSK, and WPA2-PSK will provide you 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. The Wireless AC1200 USB High Gain Adapter works with 802.11ac, 802.11n and 802.11g/b 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 AC1200 USB High Gain Adapter
- Extendable Base Station
- Quick Installation Guide
- Installation CD (Driver/Utility/Manual)

1.2 Features

- Higher data rate and broader coverage with Wireless AC 1200 technology
- WPA2, WPA, and WEP enhanced security to provide full protection for your wireless connection
- Great for environments that need higher wireless data traffic
- Fully backward compatible with 802.11n/b/g
- Light-weight, compact design
- RoHS compliant

2. Install the Wireless Adapter

This section provides instructions on how to install the Wireless AC1200 USB High Gain Adapter.

Step 2.1 Insert the USB adapter into an available USB slot on your computer.

Step 2.2 Click Cancel if you see the Found New Hardware Wizard.

Windows Vista Users:



Windows XP Users:



Step 2.3 Insert the Installation CD in the CD drive.

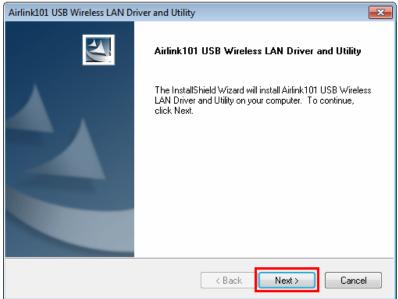
Note: If the Autorun screen doesn't appear automatically, go to **My Computer**, double click your CD ROM drive.

Step 2.4 The Autorun screen will pop up. Select Install Utility and Driver from the menu.

Wirele	ess AC 1200 Dual Band Adapter
Install Utility and Driver	
View User Manual	
View Quick Installation Guide	
Install Adobe Reader	
Browse Exit	Model No.: AWLL7086HG

Windows 7 / Vista Users: When you get a warning message make sure you click **Allow** to give permission to continue with the installation of the driver software.

Step 2.5 Click Next and follow the instructions on the window to finish installation.



Step 2.6 Give Permission to Window to install the driver software.

Windows 7 / Vista Users: Click the Install this driver software anyway.



Windows XP Users: Click Continue Anyway at the Windows Logo Screen.

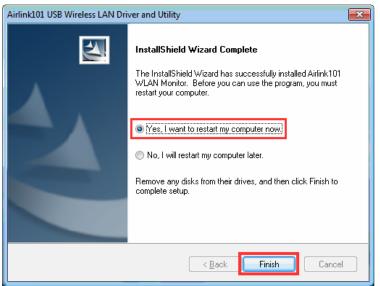
Software	e Installation
<u>.</u>	The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why</u> <u>this testing is important.</u>)
	Continuing your installation of this software may impair or destabilize the correct operation of your 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 STOP Installation

Hardwar	re Installation
<u>.</u>	The software you are installing for this hardware: Wireless N Mini USB 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

You will see the following message when it is installing the driver for Airlink101 Wireless Adapter and the Airlink101 Wireless Monitor.



Step 2.7 Select Yes, I want to restart my computer now. Click Finish to complete the installation.



The driver and utility have been installed successfully. Please continue to the next chapter.

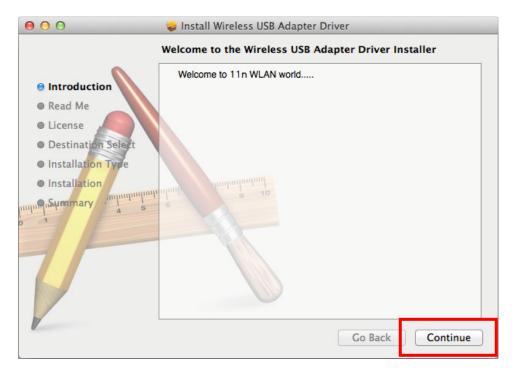
3. Install the Driver/Utility on Mac OSX

This section provides instructions on how to install the Wireless N Ultra Mini USB Adapter on the OSX platform. The AWLL7086HG supports OSX 10.4 through 10.10.

Step 3.1 Insert the USB adapter into an available USB slot on your computer.

Step 3.2 Locate and open the .pkg file in the MAC folder.

Step 3.3 Continue through the menu till you reach the License section.

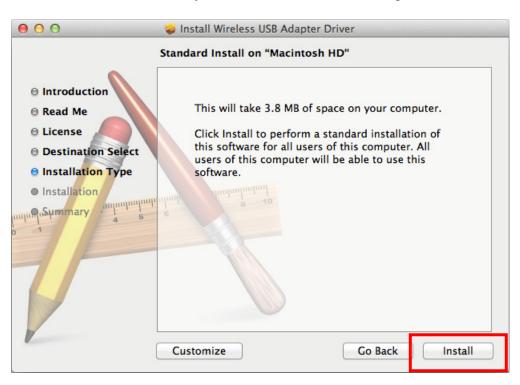




Step 3.3 Choose you preferred language and press **Continue** to view the License Agreement. After review, press **Agree** to continue.

000	🥪 Install Wireless USB Adapter Driver
	Software License Agreement
Introduction	English ‡
🖯 Read Me	Copyright (c) 2011. All rights reserved.
e License	
Destination Select	
Installation Type	
Installation	multi-fundaminal
migranian migranian	
U	Print Save Go Back Continue

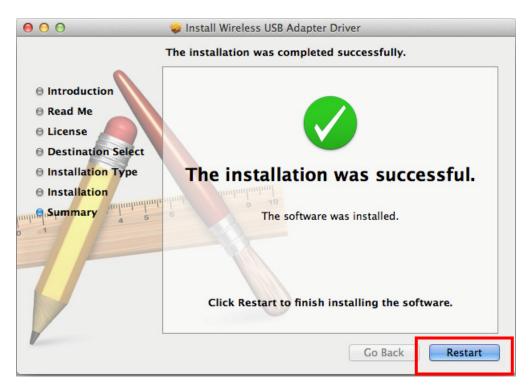
Step 3.4 Select Install or choose your install destination through Customize.



Step 3.3 Press Continue to begin installation.



Step 3.3 After installation is complete, **Restart** your computer to begin using the Wireless Utility.



4. Connect to the Wireless Network

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

For Windows 7 Users:

You can use the utility built in Windows 7 or Airlink101 Wireless Monitor to manage this wireless USB adapter.

Step 4.1 Click on the wireless icon in the system tray at the bottom right-hand corner of your screen. A list of available network will pop up. Select the one you want to connect to and click **Connect**.

Not connected	\$3.
Connections are available	
Wireless Network Connection 6	^
airlink101	lte.
	<u>Connect</u>
trigger	
Fossa	.atl
SCA	.ail
Other Network	
Open Network and Sharing C	enter
	3:05 PM 7/2/2009

Step 4.2 Enter the network security key if the wireless network you are attempting to connect to has wireless encryption enabled. Click **OK**. The connection should be now established.

💋 Connect to a Network	×
Type the network security key	
Security key:	
Hide characters	
You can also connect by pushing the button on the router.	
ОКС	ancel

For All Windows Users:

Step 4.1 After rebooting the computer, open Airlink101 Wireless Monitor utility by double clicking on the Airlink101 Wireless Monitor Utility icon on your desktop.



Step 4.2 Click the **Available Network** tab of the Wireless Monitor, select the **SSID** (Network Name) of the wireless network that you wish to connect to, and click **Add to Profile**.

	bout(A)						
MyComputer Q Realtek RTL819	General Profile Available	e Network Statu	us Wi-Fi Prote	ct Setup Virtual WiFi			
Nedicek KTL019	Available Network(s)						
	SSID	Channel	Encryption	Network Authentication	Signal	Туре	BS
	1 ³⁾ trigger	1	WEP	Unknown	46%	Infrastructure	00
	LABTEST	3	WEP	Unknown	96%	Infrastructure	00
	T ³⁾	6	TKIP	WPA Pre-Shared Key	26%	Infrastructure	00
	1 ³⁾ AP0	6	AES	WPA2 Pre-Shared Key	62%	Infrastructure	00
	1 ³⁾	11	AES	WPA2 Pre-Shared Key	26%	Infrastructure	00
	Airlink101	11	None	Unknown	88%	Infrastructure	00
	ProTecTid	11	AES	WPA2 Pre-Shared Key	42%	Infrastructure	00
	ProTecTid-AP	11	AES	WPA2 Pre-Shared Key	26%	Infrastructure	00
	•						F

Step 4.3 Enter the wireless security key into the **Network Key** box if the network you are attempting to connect has wireless security enabled. Click **OK**.

Wireless Network Prope	rties: 🗾						
This is a computer-to access points are no	-computer(ad hoc) network; wireless t used.						
Profile Name:	Airlink101						
Network Name(SSID):	Airlink101						
Channel:	11 (2462MHz) 🔻						
 Wireless network secu 	rity						
This network requires	a key for the following:						
Netwo	ork Authentication: Open System 🔻						
	Data encryption: Disabled						
ASCII PASS	ASCII PASSPHRASE						
Key index (advanced):	1 -						
Network key:							
Confirm network key:							
ОК	Cancel						

Step 4.4 The connection should be now established. Verify that **IP Address**, **Subnet Mask** and **Gateway** have valid numbers assigned to them (instead of all 0's). The Status should be Associated, and there will be green bars next to Signal Strength and Link Quality.

🚽 Airlink101 Wireless Mon	itor	
Refresh(R) Mode(M) A	bout(A)	
	General Profile Available Network Status Wi-Fi Protect Setup Virtual WiFi	
Realtek RTL819	Status: Associated	
	Speed: Tx:300 Mbps Rx:300 Mbps	
	Type: Infrastructure	
	Encryption: AES	
	SSID: Airlink101	
	Signal Strength:	100%
	Link Quality:	100%
	Network Address:	
	MAC Address: 08:10:74:00:00:07	
	Microsoft Virtual WiFi Miniport Adapter IP Address: 0.0.0.0	
	Subnet Mask: 0.0.0.0 Gateway:	
	Realtek RTL8192CU Wireless LAN 802.11n USB 2.0 Network Adapter	
	IP Address: 192.168.2.102	
	Subnet Mask: 255.255.255.0 Gateway: 192.168.2.1	
	ReNew IP	
4		
Show Tray Icon	Disable Adapter	Close
Radio Off	Virtual WiFi allowed	

Congratulations! You have now connected to the wireless network successfully.

Troubleshooting

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

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 in Step 3.3 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.

5. Configure Wireless Monitor

This section describes the various functions of the Airlink101 Wireless Monitor that you can configure, including the settings of wireless encryption.

5.1 General

The **General** tab provides you with the status of the current connection, including signal, network name (SSID) and IP Address.

🞣 Airlink101 Wireless Mon	itor	- • ×
Refresh(R) Mode(M) A	bout(A)	
MyComputer MyComputer Realtek RTL819	General Profile Available Network Status Wi-Fi Protect Setup Virtual WiFi Status: Associated Speed: Tx:72 Mbps Rx:72 Mbps Type: Infrastructure Encryption: None SSID: Airlink101 Signal Strength: 9;	2% 00%
	Network Address: MAC Address: 08:10:74:00:00:07 Microsoft Virtual WiFi Miniport Adapter IP Address: 0.0.0.0 Subnet Mask: 0.0.0.0 Gateway: Realtek RTL8192CU Wireless LAN 802.11n USB 2.0 Network Adapter IP Address: 192.168.2.102 Subnet Mask: 255.255.255.0 Gateway: 192.168.2.1	
<	ReNew IP	
Show Tray IconRadio Off	 Disable Adapter Virtual WiFi allowed 	Close

At the bottom you have options for controlling the utility and adapter.

Show Tray Icon allows you to show or hide the tray icon for the utility.

Radio Off disables the wireless function of the adapter.

Disable Adapter will completely disable the wireless adapter.

Note: Virtual WiFi allowed is not supported in this utility version.

5.2 Profile Settings

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

Airlink101 Wireless Monitor							
Refresh(R) Mode(M) Al							
B - S MyComputer	General	Profile	Available Network	Status	Wi-Fi Protect Setup	Virtual WiFi	
Realtek RTL819	Availal	ole Profi	le(s)				
		le Name			SID		Add
	(C) A	irlink101		F	irlink101		Remove
							Edit
							Duplicate
							Set Default
	•		III			4	
•							
Show Tray IconRadio Off				ble Ada ual WiFi	pter allowed		Close

The **Available Profile(s)** box lists all the profiles that you've created for your wireless networks. Profiles are automatically created and added to this list when you connect to new networks. You can also manually add the profiles.

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

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

A AirLink101 Wi	ireless Monitor	
	Wireless Network Properties:	
Available Pro	This is a computer-to-computer(ad hoc) network; wireless access points are not used.	
Profile Na	Profile Name:	dd
P Airlink	Network Name(SSID):	nove
	Channel: 1 (2412MHz) *	dit
	Wireless network security	CUIC
	This network requires a key for the following:	
	Network Authentication: Open System 💌	licate
	Data encryption: Disabled	Default
•	Key index (advanced): 1	
	Confirm network key:	
Show Tra	OK Cancel	
Radio Off		
Ready		NUM

Enter a **Profile Name** and **SSID**. Enter the encryption settings for the profile. Click **OK** to save the changes.

To remove an existing profile, select the profile from the **Available Profile(s)** box and click on **Remove**.

To modify an existing profile, select the profile from the **Available Profile(s)** box and click on **Edit**.

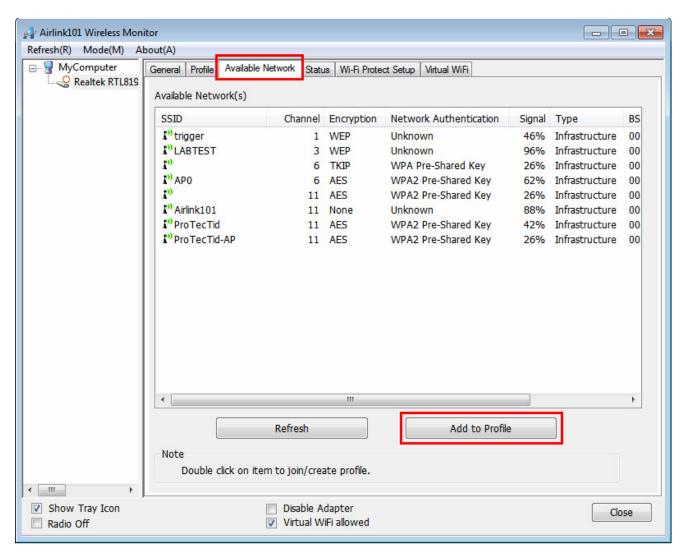
To duplicate an existing profile, select the profile from the **Available Profile(s)** box and click on **Duplicate**.

To activate an existing profile, select the profile from the **Available Profile(s)** box and click on **Set Default**.

5.3 Available Network

The Available network tab lists all of the networks that the adapter detects in your area.

Clicking **Refresh** will refresh the list. To connect to a network, select a network from the list and click **Add to Profile**.



5.4 Status

The status section provides you with a list of information about the current status of the adapter.

Airlink101 Wireless Mon			
Refresh(R) Mode(M) A	bout(A) General Profile Available Network	Status Wi-Fi Protect Setup Virtual WiFi	
Realtek RTL819	Manufacturer	AirLink101 Wireless Card	
	NDIS Driver Version	1021.4.928.2012	
	Short Radio Header	Yes	
	Encryption	AES	
	Authenticate	WPA2-PSK	
	Channel Set	ETSI	
	MAC Address	08:10:74:00:00:07	
	Data Rate (AUTO)	Tx:300 Mbps Rx:300 Mbps	
	Channel (Frequency)	11 (2462 MHz)	
	Status	Associated	
	SSID	Airlink101	
	Network Type	Infrastructure	
	Power Save Mode	None	
	Associated AP MAC	00:50:18:21:D6:C8	
	Up Time (hh:mm:ss)	0:00:15	
-III -			
Show Tray Icon	J Disa	ble Adapter	Close
Radio Off		ual WiFi allowed	Close

5.5 Wi-Fi Protected Setup (WPS)

The Wi-Fi Protected Setup[™] (**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 AR570W or AR675W Airlink101 Wireless N Router. You also need to configure the wireless encryption on the router; you should find the instructions for configuring it in the router's User Manual.

If your wireless router does not support WPS, then you need to set up the wireless security manually and you can skip this section.

We are using the AR675W Airlink101 Wireless AC 1200 Green Router to illustrate the following setup instructions.

Step 5.5.1 Open the Airlink101 Wireless Monitor. Click the Wi-Fi Protect Setup tab.

🚽 Airlink101 Wireless Moni	itor	- • •
Refresh(R) Mode(M) At	bout(A)	
MyComputer Sealtek RTL819	General Profile Available Network Status Wi-Fi Protect Setup Virtual WiFi	
Realtek RTL819	Wi-Fi Protected Setup (WPS) An easy and secure setup solution for Wi-Fi network Role Selection	
	Pin Input Config (PIN) After pushing the PIN button.Please enter the PIN code PIN Code : 23965836 Pin Input Config (PIN)	
	Push Button After pushing the PBC button.Please push the physical button on your AP or visual button on the WPS config page. Push Button Config (PBC)	
< <u> </u>		
Show Tray Icon Radio Off	 Disable Adapter Virtual WiFi allowed 	Close

Choose your configuration method:

- For **Push Button method,** click Push Button Config (PBC) tab, continue to Step 5.6.2a
- For **Pin Input Config** method, click Pin Input Config (PIN) tab., continue to Step 5.6.3a

Step 5.5.2a If you choose the Push Button method; click the **Push Button Config** (PBC) tab.

Wi-Fi Protected Setup - PBC method	×
Wi-Fi Protected Setup - PBC method	
If there is more than one AP on the PBC mode, there will be [Session Overlap]. Please use PIN method or wait for a while and use PBC method agair	ı.
Status : AP Sitesurvey	
Complete :	_
Push Button Config (PBC) Cancel	

Step 5.5.2b Push the Easy Setup Button (WPS button) on the router, and it will start the handshake with wireless adapter. The connection will be built up in couple minutes.



Step 5.5.3a If you choose the Pin Code method, write down the PIN and click Yes.

📣 Airlink101 Wireless Mon	itor	
Refresh(R) Mode(M) Al	bout(A)	
MyComputer	General Profile Available Network Status Wi-Fi Protect Setup Virtual WiFi Wi-Fi Protected Setup (WPS) An easy and secure setup solution for Wi-Fi network Role Selection Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network Image: Comparison of the secure setup solution for Wi-Fi network	
	Pin Input Co After pushino button.Pleas PIN Co Pin In Pin In Yes No	
	Push Button After pushing the PBC button.Please push the physical button on your AP or visual button on the WPS config page. Push Button Config (PBC)	
Show Tray Icon Radio Off	 Disable Adapter Virtual WiFi allowed 	Close

Select the Access Point that you want to connect, and then click Select.

Airlink101 Wireless Mon	itor	
Refresh(R) Mode(M) Al	bout(A)	
	General Profile Available Network Status Wi-Fi Protect Setup Virtual WiFi	
Realtek RTL819	Wi-Fi Protected Setup (WPS)	
	An easy and secure setup solution for Wi-Fi network	
	Role Sele Wi-Fi Protected Setup - Select AP	
	As W Refresh Cancel	
	WPS AP Name WPS AP MAC C	
	Airlink101 00:50:18:21:D6:C8	
	jim 00:1D:6A:B8:24:63 ProTecTid 00:50:18:21:D4:39	
	Pin Inpu After pu button.P	
	button.P	
	PIN	
	Pi	
	Push But	
	After pu Select	
	button d	
	on the V	
	Push Button Config (PBC)	
<		
Show Tray Icon Radio Off) Disable Adapter Virtual WiFi allowed	Close

Airlink101 Wireless Mon	itor	
Refresh(R) Mode(M) A	ibout(A)	
	General Profile Available Network Status Wi-Fi Protect Setup	
Realtek RTL819		
	Wi-Fi Protected Setup (WPS)	
	An easy and secure setup solution for Wi-Fi network	
	Kole Sel	
	As W Refresh Cancel	
	Wi-Fi Protected Setup - PIN method	
	Wi-Fi Protected Setup - PIN method	
	Please enter the following PIN code into your AP .	
	A A A A A A A A A A A A A A A A A A A	
	PIN Code : 22916051	
	Status : [Airlink101] WPS Protocol Communication	
	Cancel	
	button d	
	on the V	
	Push Button Config (DBC)	
4 III >		
Show Tray Icon	Disable Adapter	Close
Radio Off	Virtual WiFi allowed	CIUSE
Show Tray Icon	Push Button Config (PBC)	Close

Step 5.5.3b Log on to your router's configuration page from the web browser and click on **Wireless**. Then enter the **WPS** settings.

Step 5.5.3c Make sure that the WPS is Enabled. In the Setup section, select **Configure Wireless Station**. Select **Enrollee PIN** and enter the PIN number assigned in step 5.6.3a. Press **Trigger** to begin the connection, save your settings when completed.

	AR695W	Vireless N 300 G	igabit Router	English 💌
D ADMINISTRATOR'S MAIN	MENU 🚽 Status	🖤 Wizard	Advanced	► Logout
BASIC SET	TTING 🤣 FORWARDING RULES	SECURITY SETTING	M ADVANCED SETTING	TOOLBOX
Primary Setup	Wi-Fi Protected Setup			
DHCP Server	ltem		Setting	
Wireless	• WPS	💿 Enable 🔿 Disal	ble	
Change Password	▶ Setup	 Current AP PIN Configure Wireles 	ss Station	
	► Method	 Enrollee PIN : Software button 		
	WPS state	Idle		
	► WPS status	Unconfigured		
		Save Trig	ger Back	

After a few moments both the router configuration screen and the adapter configuration screen should show a message telling you that a connection is established.

Note: If you cannot connect successfully with WPS, you need to log in to your router's configuration and click on **Wireless**. Then click **Wireless security**. Make sure that the Disable WPS box is NOT checked, refer to Step 5.6.3b.

5.6 Configuring Wireless Security

This section describes the different types of encryption available and how to configure them. In most cases, encryption type will be automatically configured and all you need is to enter the Network key, as described in Section 3, Step 3.3. If you are creating a custom profile, you need to manually configure the encryption settings.

🚽 Airlink101 Wireless Monitor - • • Refresh(R) Mode(M) About(A) E- g MyComputer General Profile Available Network Status Wi-Fi Protect Setup Virtual WiFi Available Profile(s) Add Profile Name SSID Airlink101 Airlink101 Remove Edit Duplicate Set Default 4 < III | Show Tray Icon Disable Adapter Close Virtual WiFi allowed Radio Off

Open the Wireless Monitor utility, click Profile tab and then click Add.

The different options of wireless network encryption settings are:

Disable: 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

Wireless Network Properties:	x
This is a computer-to-computer(ad hoc) network; wireless access points are not used.	
Profile Name:	
Network Name(SSID):	_
Channel: 1 (2412MHz) -	
Wireless network security	
This network requires a key for the following:	
Network Authentication: Open System 👻	
Data encryption: Data encryption: Shared Key WPA-PSK WPA2-PSK WPA 802.1X WPA2 802.1X	
WEP 802.1X Key index (advanced):	1
Confirm network key:	_
OK Cancel	

5.6.1 Configuring WEP encryption

access points are not used. Profile Name:	
Profile Mane,	
Network Name(SSID):	
Channel: 1 (2412MHz) +	
Wireless network security	
This network requires a key for the following:	
Network Authentication: Open Sys	tem •
Data encryption	
ASCII PASSPHRASE	
Kenindan (education)	
Key index (advanced): 1 +	
Network key:	
Confirm network key:	

Select **WEP** from the **Data encryption** box.

Under **Network Authentication**, you will want to select **Shared key** or **Open System**, depending on the router settings.

Select the encryption setting according to the setting of the router.

• **ASCII** or **PASSPHRASE** will also be predetermined by the router. Refer to your routers settings to find out what you should select here.

or

• **Key Index** is the key on the router that is currently in use. Input the Network key that matches the Network key of the router.

Click **OK** to save your settings.

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

			c) network; wire	eless
access point	s are not use	d.		
Profile	Name:			
Network Name	(SSID):			
Cha	annel: 1 (2	412MHz) ។	-	
Wireless netw	ork <mark>s</mark> ecurity			
This network r	equires a ke	for the follo	wing:	
	Network A	uthentication	WPA2-PSK	-
	Da	ta encryption	AES	+
		252450	TKIP	
ASCII	PASSPHR	ASE	AES	
Key index (adv	vanced): 1			
Network key:				
Confirm netwo	rk key:			

Select WPA-PSK/WPA2-PSK from the Network Authentication box.

Under **Data encryption** select either **AES** or **TKIP** depending on the settings for your router.

Enter the encryption key that the router is using into the **Network Key** box.

Click **OK** to save your settings.

5.6.3 Configuring WPA/WPA2 Encryption (for corporate networks)

This is a computer-to- access points are not		network; wireless
Profile Name:		
Network Name(SSID):		
Channel:	(2412MHz) =	
Wireless network securi	ty	
This network requires a	key for the follow	ving:
Networ	k Authentication	WPA 802.1X
	Data encryption:	AES
	PHRASE	TKIP AES
Key index (advanced): Network key:	1 -	
Confirm network key:		

Select WPA 802.1x / WPA2 802.1x from the Network Authentication box.

Under **Data encryption** select either **TKIP** or **AES** depending on the settings for the router.

5.7 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 many features that come with a router. The maximum connection speed drops to 11Mbps. In addition, WEP encryption is the only security available in ad-hoc mode.

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

Open the Wireless Monitor.

Click on **Profile** and click on **Add**. The profile settings box will appear.

Network N	Name(SSID):			
	Channel:	1 (2412MHz) 🔻	1	
Wireless	network sec	urity		
This net	vork requires	a key for the follow	ing:	
	Netw	ork Authentication:	Open System	•
		Data encryption:	Disabled	•
ASCI	I PAS	SPHRASE		
Key index Network	k (advanced) key:	: 1 -		
Con Com	network key:			

First change the network type to **Adhoc**, by checking the computer-to-computer (ad-hoc) network.

Enter 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 Moni	itor											
Refresh(R) Mode(M) About(A)												
B	General	Profile	Available Network	Status	Wi-Fi Protect Setup							
Realtek RTL819	Available Profile(s)											
		Profile Name		SSID			Add					
	Ai Salah	irlink101			Airlink101							
	(SA)	📎 Ad Hoc		Ad-Hoc			Remove					
							Edit					
							Duplicate					
							Set Default					
	•					Þ.						
<u>۲</u>												
Show Tray Icon				ble Ada ual WiFi	pter allowed		Close					

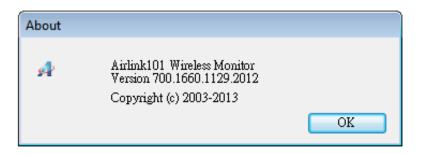
Select your new profile from the Available Profile(s) box, and double click to enable it.

You 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, slow connection, or connection 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 the best 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.

5.8 About



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

Appendix A - Specification

Frequency Band

• 2.4Ghz

Standards

• IEEE 802.11b / g / n

Interface

• USB 3.0 / 2.0 / 1.1

Data Rate*

- 2.4GHz: 300Mbps
- 5GHz: 900Mbps

Antenna Type

• 2 Detachable 5dBi antennas

Security

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

LED

• Link/Power

System Requirements

- Windows 8, 7, Vista and XP
- Mac OS 10.4 10.10
- Available USB slot

Weight

• 25g

Dimensions

• 92.5 x 27 x 15mm (L x W x H)

Temperature

- Operating: 0°C to 40°C (32°F~104°F)
- Storage: -40°C to 70°C (-40°F~158°F)

Humidity

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

Warranty

• Limited 1-year warranty

Safety Approvals

• FCC, CE

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 standard 802.11 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. Compatibility with 802.11ac 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 ©2015 Airlink101®