



802.11g USB XR[™] Adapter Model # AWLL5025 User's Manual

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Table of Contents

1. Introduction	
1.1 Package Contents	3
2. Installation	4
2.1 Install Driver & Utility	4
2.2 Verify Driver Installation	9
3. Configure the USB Adapter	11
4. Configure the Wireless Utility	16
4.1 Link Information	16
4.2 AP List	
4.3 Configure Encryption Settings	19
4.4 Profile Setting	
4.5 Static IP Setting	
4.6 About	
Technical Support	

1. Introduction

Thank you for purchasing the 802.11g USB XR[™] Adapter. When used with other Airlink101[™] MIMO XR[™] wireless products, the wireless signal range extends farther than standard 802.11g devices.

This Adapter supports 64/128-bit WEP data encryption that protects your wireless network from eavesdropping. It also supports WPA (Wi-Fi Protected Access) feature that combines IEEE 802.1x and TKIP (Temporal Key Integrity Protocol) technologies. Client users are required to authorize before accessing the APs or AP Routers, and the data transmitted through the network is encrypted/decrypted by a dynamically changing secret key.

1.1 Package Contents

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

- One 802.11g USB XR[™] Adapter
- One Quick Installation Guide
- One USB cable
- One Installation CD (Driver/Utility/Manual)

2. Installation

2.1 Install Driver & Utility

This section provides instructions on how to install the **802.11g USB XR™ Adapter**. The driver is installed along with the utility.

Note: Do not connect the USB Adapter to your computer until you have reached the appointed step.

For Windows 98SE and ME users, you may be prompted to insert the Windows 98SE or ME CD during the driver installation. Be sure to have your Windows 98SE or ME CD ready.

Step 1 Insert the Driver & Utility CD into your CD drive and select **Install Utility and Driver** from the menu.



Note: If the Autorun screen doesn't appear automatically go to **Start**, **Run**, and type **D:\autorun.exe** (where **D** is the letter of your CD drive) and click **OK**.

Step 2 Click Next at the welcome screen.



Step 3 Click Next to accept the default destination folder.



Step 4 Verify **Yes, I want to restart my computer now** is selected and click **Finish** to restart your computer.



Step 5 After the computer is restarted, connect the USB Adapter to your computer's USB port.

Step 6 If Windows asks to connect to Windows Update, select **No, not this time** and click **Next**.



Step 7 Select Install the software automatically and click Next.



For Windows 98SE and ME, select **Search for the best driver for your device** and click **Next**. Verify all the check boxes are checked and click **Next**.

Step 8 Click **Continue Anyway** at the Windows Logo Screen. (For Windows 2000, click **Yes** at the Digital Signature Not Found prompt).



Step 9 Click Finish. (Restart the computer for Windows 98SE and ME).



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 Select the **Device Manager** tab. (For Windows 2000/XP, select the **Hardware tab** first 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

Step 3 Expand **Network adapters** from the list and verify that **Airlink101 USB XR Adapter** is listed and no yellow question mark is beside it.



If **Airlink101 USB XR Adapter** is not listed, or you see a yellow question mark beside it, please re-install the driver again.

3. Configure the USB Adapter

This section describes how to connect your **802.11g USB XR[™] 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.

Step 1 Double-click on the **Wireless Network Connection Icon** in the system tray and then click on **Properties** or **Advanced**.



Step 2 Go to the **Wireless Networks** tab, uncheck the **"Use Windows to configure my wireless network settings"** check box and click **OK**.

≥ w	ireless Net	ork Con	nection	12 Prop	perties	? 🛛
Gen	eral Wireless	Networks	Advanc	ed		
	Use Windows	to configu	re my wire	less netwo	rk settings	
	Available netwo	rks: ——				
Т	To connect to a	n available	e network,	click Con	figure.	
21	🛔 wireless			^	Configure	
	108AP default			~	Refresh	
_ C I	reieneu netwo	K.N.				
ł	Automatically co below:	innect to a	ivailable n	etworks in	the order liste	ed
ł	Automatically co below:	onnect to a	ivailable n	etworks in	the order liste Move up	ed
ł	Automatically co below:	onnect to a	ivailable n	etworks in	the order liste Move up Move dow	ed n
	Automatically co below: Add	Remo	ove	etworks in	the order liste Move up Move dow	ed m

To open the USB Adapter's utility go to Start > (All) Programs > Airlink101 USB XR Adapter Utility > Airlink101 USB XR Adapter Utility.

	-			m	Zone Labs	۲		
		Programs	•	i	Airlink101 USB XR Adapter Utility	×		Airlink101 USB XR Adapter Utility
	3	Documents	×				%	Uninstall Airlink101 USB XR Adapter Utility
onal	<u>v</u> -	Settings	۲					
essi	P	Search	۲					
Prof	?	Help and Support						
s XP		Run						
wopu	P	Log Off						
Ň	0	Shut Down						

Step 1 Go to the **AP List** tab, select the **SSID** (Network Name) of the wireless network you wish to connect to, and click **Connect**.

Monitor					
🎼 🔊 Link Information 📇 AP List 🏑	Profile Setting 🛛 🧖 About 📃				
Network Name Band Signal	Site Information				
👗 default 🛛 G 🛛 95%	Network Type : Access Point				
T. B 20%	Channel : 6				
	Encryption : Off				
	Surveyed at : 00:C0:49:54:11:E4				
Connect Refresh					
	www.airlink101.com				

Step 2 If encryption is not enabled for the selected access point / router, skip to Step 6. Otherwise, enter a **Profile Name** for your wireless setting and click **Next**.

Witeless Monftor	\mathbf{X}
Profile Setting	
Profile Name : default	
	1
Back Next Exit	

Step 3 Verify that the **Network Name** matches the **SSID** of your wireless network and click **Next**.

Witeless Monitor					
Profile Setting					
	Network Name :	default			
	Network Type :	👗 Access Point 🛛 💌			
	Transfer Rate :	📣 Automatic 🔹 💌			
ABC_		ABC			

Step 4 Select the proper encryption setting for your wireless router or access point from the drop-down menu and click **Next**.

Witzeless Monitor						
Profile S	etting					
Authentication Mode :	🔒 Open System 🖃					
Encryption :	€ 4 64 bits ▼					
Back	ext Exit					

Step 5 Follow the on-screen instructions to complete the encryption settings. Click **Complete** when finished.

Step 6 You should see a blue circle around the antenna icon indicating a valid connection.

Mindless Monitor					
Link Informatin Network Name	on	AP List G Signal 95% 20%	Profile Setting About Site Information Network Type : Access Point Channel : 6 Encryption : Off		
			Surveyed at : 00:C0:49:54:11:E4		
Connect Refresh					
			www.airlink101.com		

Step 7 Go to the **Link Information** tab and click on the **More** button.



Step 8 Verify that you are receiving adequate Signal Strength and Link Quality and that you have been assigned a valid IP address (instead of all 0's).

Wireless	Monitor 🛛	×
Wireless Information		1
Connect To Network :	default [00:14:A5:01:4F:40]	
Network Type :	Access Point	
Channel :	6	
Encryption :	Off	
Link Speed :	54 Mbits / sec	
Signal Strength	Link Quality	
- IP Information		1
DHCP Status :	Automatic/DHCP	
Current IP :	192.168.1.100	
Subnet Mask :	255.255.255.0	
Default Gateway :	192.168.1.1	
DNS Server :	192.168.1.1	
	Back)

If you do not have adequate Signal Strength, try re-orienting the Access Point and/or the USB Adapter to get a better reception.

4. Configure the Wireless Utility

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

4.1 Link Information

The **Link Information** tab shows the current profile in use as well as details of the current network connection.



Click on the **More** button to see the details of the current network connection.

Wireless	Monitor 🗵
└─ Wireless Information	
Connect To Network :	default [00:14:A5:01:4F:40]
Network Type :	Access Point
Channel :	6
Encryption :	Off
Link Speed :	54 Mbits / sec
Signal Strength	Link Quality
_ IP Information	
DHCP Status :	Automatic/DHCP
Current IP :	192.168.1.100
Subnet Mask :	255.255.255.0
Default Gateway :	192.168.1.1
DNS Server :	192.168.1.1
	Back

The Wireless Information displays the current wireless network you are connected to as well as various other statuses such as the Signal Strength and your assigned IP address.

4.2 AP List

The **AP List** tab displays all the available Access Points detected by the USB Adapter. Simply select the desired Access Point you wish to connect to and click **Connect**.

Monitor					
Link Information 👫 AP List	Profile Setting 🛛 🦹 About 🗌				
i default G 95% in B 20%	Network Type : Access Point Channel : 6 Encryption : Off				
Connect Refresh	Surveyed at : 00:C0:49:54:11:E4				
www.airlink101.com					

The **Site Information** displays a list of status for the selected AP, including the Channel number and the Encryption status.

4.3 Configure Encryption Settings

This section describes how to configure encryption settings for the USB Adapter.

Note: The encryption settings you set for the Adapter must match the same settings of the Access Point/Wireless Router; otherwise, the encryption will not work properly.

Step 1 From the **AP List** tab, select the Access Point/Wireless Router you want to connect to and click **Connect**.

Monitor ×		
🔊 Link Information รู AP List 🌈 Profile Setting 🧣 About 🔄		
Network Name Band Signal	Site Information	
🛵 default 🛛 G 95%	Network Type : Access Point	
Å≙ B 20%	Channel : 6	
	Encryption : On	
	Surveyed at : 00:C0:49:54:11:E4	
Connect Refresh		
	www.airlink101.com	

Step 2 Verify the Profile Name is correct and click Next.

Wheless Monftor	\mathbf{X}
Profile Setting	
Profile Name : default	
	-
Back Next Exit	

Profile Setti Network Name : def Network Type : i Transfer Rate : i	g ult Access Point Automatic
Network Name : def Network Type : i Transfer Rate : i	ult Access Point 💌 Automatic 💌
Network Type : 👔	Access Point
Transfer Rate : 🚅	Automatic 📃
	_
	ABC

Step 3 Verify the Network Name (SSID) is correct and click Next.

For WEP Settings:

WEP Step 4 Select the appropriate Authentication Mode and Encryption settings and click Next.

Wheless Monftor		
Profile S	etting	
Authentication Mode :	🔒 Open System 🖃	
Encryption :	€ 4 64 bits ▼	
01010101010	0101010	

WEP Step 5 Select the appropriate Input Method, Key (password), Key Index, and click Next.



WEP Step 6 Click Complete to finish the settings.

Witeless Monftor		
Profile Setting		
IP Setting : 🖳 Original Setting 📃		
10		
Back Complete Evit		

For WPA Settings:

Wireless Monitor	
Profile Setting	
Authentication Mode : 🔒 WPA-PSK 🗨	
Input Method : 🔒 TKIP 📃	
Back Next Exit	

WPA Step 4 Select WPA-PSK and the appropriate Input Method and click Next.

WPA Step 5 Enter the WPA Key (passphrase) and click Next.

Wireless Monitor	×
Profile Setting	٦
Key:	
Back Next Exit	

WPA Step 6 Click Complete to finish the settings.

Witeless Monitor	3
Profile Setting	
IP Setting : 📳 Original Setting 🔽	
10	
Back Complete Exit	

Step 7 You should see a blue circle around the antenna icon indicating a valid connection. A lock icon beside the antenna indicates the connection is encrypted.

<i>Windass</i> Monitor		
Link Informati	on	Profile Setting Profile Setting Site Information Network Type : Access Point Channel : 6 Encryption : On
Connect	Refresh	Surveyed at : 00:C0:49:54:11:E4
www.airlink101.com		

4.4 Profile Setting

The **Profile Setting** tab lists all the profiles you have created. You can create new profiles for different network environments.

Monitor ×		
Link Informatio	on 📇 AP List	🖉 Profile Setting 🦞 About 🔄
Profile Name	Network Name	Site Information
å ⊜ default	default	Network Type : -
		Channel : -
		Encryption : -
		IP Setting:-
Add	Edit	Delete Connect
www.airlink101.com		

To add a new profile, follow the steps below:

Step 1 Click on the **Add** button.



Step 2 Enter a name for your new profile and click **Next**.

Wheless Monitor	
Profile Setting	
Profile Name : Office	
	. 1
	1
	1
Back Next Exit	

Step 3 Enter the SSID (Network Name) of the wireless network you want to connect to and click **Next**.

Windlass Monitor	
Profile S	etting
Network Name :	Office_AP
Network Type :	👗 Access Point 📃 💌
Transfer Rate :	📣 Automatic 🗾 👻
Back Ne	ABC Exit

Step 4 Configure any encryption setting if required and click **Next**.

Witcless (lonftor 🗵		
Profile Setting			
Authentication Mode :	🔒 WPA2-PSK 📃 💌		
Input Method :	🔒 TKIP 🗾 🔽		
Back Ne	Exit		

Step 5 Click Complete to finish the profile setting.



Step 6 Your new profile will be listed in the Profile List.

Monitor			
🥻 🔊 Link Information 🛛 👫	🚛 AP List 🕜	Profile Setting	🧖 About
Profile Name Netv	work Name	Site Information	
ia default defa	ult	Network Type	:-
An Office Offic	e_AP	Channel	-
		Encryption	:•
		IP Setting	-
Add Edit Delete Connect			
		www	v.airlink101.com

Step 7 You can quickly select which profile you want to use from the **Link Information** tab depending on your network environments without having to reconfigure the settings each time.

Link Information 📇 AP List 🕜 Profile Setting 🤶 About
Current Profile String :
Content i fonie String. g defadit
🔏 Office
? default
Internet
More

4.5 Static IP Setting

To change the IP address of the wireless adapter to Static IP, follow the steps below:

Step 1 On Step 5 of *4.4 Profile Setting*, under IP setting, select **New Setting** and click **Next**.

Wheless Monitor	×
Profile Setting	
IP Setting : 📰 New Setting 💌	
IP:#.x.x.x Subnet Mask:#.x.x.x DNS:#.x.x.x	
Back Next Exit	

Step 2 Select Static.

Witcless 0	lonitor 🛛
Profile S	etting
DHCP Status :	Static 🔽
IP Address :	
Subnet Mask :	255.255.255.0
Default Gateway :	
DNS Server :	
IP:x.x.x.x Subnet Mask:x.x.x.x DNS:x.x.x.x	
Back	plete Exit

Step 3 Enter in the information and click **Complete** to finish the setting.

4.6 About

The About tab shows the Utility, Driver, and Firmware version as well as the MAC address of the **802.11g USB XR™ Adapter**.

Minelle MO	nitor	\mathbf{X}	
🧊 Link Information 📇 AP List	🛷 Profile Setting 🦻 About		
Utility Version :	1. 0. 7. 9		
Driver Version :	1.0.1.0		
Firmware Version :	1.0.1.0		
Address :	00:11:50:88:40:38		
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	www.airlink101.c	om	

Technical Support

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*Theoretical maximum wireless signal rate based on IEEE standard 802.11g 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.

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