



Super G Wireless USB 2.0 Adapter Model # AWLL4030 User's Manual

Ver. 1A

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1. Introduction

Thank you for purchasing the Super G Wireless USB 2.0 Adapter. This USB Adapter is designed to comply with IEEE 802.11g Wireless LAN standard and is easy to carry with its minimal size. It is suitable for any laptop or desktop computer.

This Adapter supports 64/128/152-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 in the network is encrypted/decrypted by a dynamically changing secret key.

The Adapter supports the Super G mode feature which enhances the data rate to 108Mbps when it is connected to a Super G compatible device.

1.1 Features

- Complies with IEEE 802.11b and IEEE 802.11g 2.4GHz standards.
- Up to 54Mbps high data transfer rate (108Mbps in Super G mode).
- Supports 64/128/152-bit WEP, WPA, and IEEE 802.1x high-level security.
- Complies with IEEE 802.11d country roaming standard.
- Supports the most popular operating system: Windows 98SE/ME/2000/XP.
- Supports USB 2.0/1.1/1.0 interface.
- Portable and mini-size design.
- Suitable for any notebook or desktop PC.

1.2 Specifications

- Standard: IEEE 802.11g/b
- Bus Type: USB 2.0 Type A
- Frequency Band: 2.4000~2.4835GHz (Industrial Scientific Medical Band)
- Modulation: OFDM with BPSK, QPSK, 16QAM, 64QAM (11g)

BPSK, QPSK, CCK (11b)

- Data Rate: 54/48/36/24/18/12/11/9/6/5.5/2/1Mbps auto fallback (108Mbps: Super G enabled)
- Security: 64/128/152-bit WEP Data Encryption, WPA, IEEE 802.1x
- Antenna: Internal Antenna
- Drivers: Windows 98SE/ME/2000/XP

- LED: Link/Activity
- Transmit Power: 16dBm (Typical)
- Dimension: 9(H) x 27(W) x 87(D)
- Temperature: 32~131°F (0 ~55°C)
- Humidity: 0-95% (Non-Condensing)
- Certification: FCC, CE

1.3 Package Contents

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

- One Super G Wireless USB Adapter
- One USB 2.0 Extension Cable (100 cm)
- One Quick Installation Guide
- One Installation CD (Driver/Utility/Manual)

2 Installation

2.1 Installation for Windows 98SE/ME

The following steps are for Windows 98SE/ME

Note: Do not insert the USB Adatper into the computer until you've reached the appointed step.

Step 1 Insert the Installation CD into the CD drive and wait for the autorun screen to appear.

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 Install Driver (Windows 98SE/ME).



Step 3 Click Next at the welcome screen.

Step 4 Click Next to accept the License Agreement.

Step 5 Verify Install Client Utilities and Driver is selected and click Next.

Step 6 Click Yes to acknowledge the need for a reboot after the installation.

Step 7 Click Next to accept the default Destination Folder.

Step 8 Click OK to acknowledge the prompt.

Step 9 Click OK to reboot your computer.

Step 10 After your computer is restarted, insert the USB Adapter into the computer.

Step 11 Click Next at the Add New Hardware Wizard.

Step 12 Verify **Search for the best driver for your device** is selected and click **Next**.

Step 13 Click Next to install the driver.

Step 14 Click Finish to exit the wizard.

Step 15 Restart the computer to complete the driver installation.

2.2 Installation for Windows 2000/XP

The following steps are for Windows 2000/XP.

For Windows 2000/XP, you must update your USB driver to USB 2.0

For Windows XP you must install Service Pack 2 prior to installing the USB Adapter.

Note: Whenever the Found New Hardware Wizard appears, click **Cancel** to quit the wizard and continue with the installation.

Step 1 Insert the Wireless USB Adapter to the computer's USB port.

Step 2 Insert the Installation CD into the CD drive and wait for the autorun screen to appear.

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 3 Click Install Driver (Windows 2000/XP).



Step 4 Click Next at the welcome screen.



Step 5 Click Next to accept the License Agreement.

Step 6 Verify Install Client Utilities and Driver is selected and click Next.

| Atheros Client Installation Program | X |
|---|---|
| Setup Type Select the setup type that best suits your needs. | |
| Click the type of setup you prefer. Install Client Utilities and Driver (recommended) Install Driver Only Make Driver Installation Diskette(s) | Description Choose this option to install the driver and client utilities. This is the recommended option. |
| InstallShield | ck Next > Cancel |

Step 7 Click Yes to acknowledge the need for a reboot after the installation.

Step 8 Click Next to accept the default Destination Folder.

| Atheros Client Installation Program | |
|---|--------|
| Choose Destination Location Select the folder where the installation program will install the files. | |
| The installation program will install the client utilities in the following location: | |
| Destination Folder | |
| C:\Program Files\Airlink101\AWLL4030 | Browse |
| InstallShield | |
| < Back Next > | Cancel |

Step 9 Click Next to accept the default Program Folder.

| Atheros Client Installation Program |
|---|
| Select Program Folder Select a program folder. |
| The installation program will add program icons to the Program Folder listed below. You may type a new folder name or select one from the Existing Folders list. |
| Program Folder: |
| Airlink101 |
| Existing Folders: |
| Accessories Ad-Aware SE Professional Adobe Adobe ASUS Utility Autoruns Canon Utilities CyberLink PowerDVD DVD Shrink |
| InstallShield |

Step 10 Read the notes carefully and click Next.

Step 11 Verify Atheros Client Utlity and Supplicant is selected and click Next.

Step 12 Click OK to acknowledge the prompt.

| Atheros Client Installation Program | | | | |
|-------------------------------------|---|--|--|--|
| ⚠ | This installation program installs the drivers automatically. Cancel the Found New Hardware Wizard if it appears and proceed with installation | | | |
| | ок | | | |

Step 13 Click **Continue Anyway** at the Windows Logo prompt for the Bootloader Download. (Click **Yes** for Windows 2000).

| ŀ | lar dwa | re Installation |
|---|----------|---|
| | <u>.</u> | The software you are installing for this hardware: Atheros USB 2.0 Wireless Adapter Bootloader Download 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 14 Click **Continue Anyway** at the Windows Logo prompt for the Wireless Network Adapter (Click **Yes** for Windows 2000).

| Hardwar | re Installation |
|----------|---|
| <u>.</u> | The software you are installing for this hardware: Atheros USB 2.0 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 |

Step 15 Click **OK** to reboot your computer.

| Atheros | : Client Installation Program |
|---------|---|
| ⚠ | The Installation Program has successfully performed the selected operations, but the system needs to be rebooted before all of the changes will take effect. Click OK to reboot the system. |
| | ОК |

3. Configure USB Adapter

The following steps are for Windows 98SE/ME/2000/XP.

If you already have signal strength and valid IP address, you do not need to perform the following steps.

Step 1 Start the **Atheros Client Utility** by double-clicking on it from your desktop.

Step 2 If there is no Signal Strength and/or the IP Address is all 0's, select the **Profile Managment** tab.

| A Atheros Cl | ? 🛛 | | | |
|----------------|--------------------------|-----------------|------------------|--------------|
| Action Options | Help | | | |
| Current Status | Profile Management | liagnostics | | |
| Total 802.11 | Profile Name: | Default | | Total 802.11 |
| ATHEROS | Link Status: | Not Associated | | ATHEROS |
| | Wireless Mode: | 2.4 GHz 54 Mbps | IP Address: | 0.0.0.0 |
| | Network Type: | Infrastructure | Current Channel: | Scanning |
| Serve | er Based Authentication: | | Data Encryption: | |
| | Signal Strength: | | | No Link |
| | | | | Advanced |

| · · · · · · · · · · · · · · · · · · · | | |
|--|---|------------------|
| rent Status Profile Managem | ent Diagnostics | |
| n Default | | New |
| | | Modify |
| | | Remove |
| | | Activate |
| | | |
| Details | | |
| Details Network Type: | Infrastructure | Import |
| Details Network Type: Security Mode: Network Name 1 (SSID1): | Infrastructure None <empty></empty> | Import Export |
| Details Network Type: Security Mode: Network Name 1 (SSID1): Network Name 2 (SSID2): | Infrastructure None <empty> <empty></empty></empty> | Import Export |

Step 3 Select the **Default** profile and click **Modify**.

Step 4 Enter the **SSID** (Network Name) that your wireless router/access point is using in the SSID field and click **OK**.

| Profile Management | | ? 🗙 |
|--------------------------|---------|--------|
| General Security Advance | ed | |
| Profile Settings | | |
| Profile Name: | Default | |
| Client Name: | | |
| Network Names | | |
| SSID1: | default | |
| SSID2: | | |
| SSID3: | | |
| | | |
| | | |
| | | Cancel |
| | | Jancel |

Step 5 Return to the **Current Status** tab and verify that you have signal strength and valid IP address.

| A Atheros Client Utilit | ty - Curren | t Profile: Default | | ? 🛛 |
|---------------------------|---------------|--------------------|------------------|---------------|
| Action Options Help | | | | |
| Current Status Profile Ma | nagement D | iagnostics | | |
| Total 802.11 | rofile Name: | Default | | Total 802.11 |
| ATHEROS | Link Status: | Authenticated | | ATHEROS |
| Wir | eless Mode: | 2.4 GHz 54 Mbps | IP Address: | 192.168.7.101 |
| Ne | twork Type: | Infrastructure | Current Channel: | 6 |
| Server Based Au | thentication: | None | Data Encryption: | TKIP |
| Sigr | nal Strength: | | | Excellent |
| | | | | Advanced |

If your wireless router/access point has encryption enabled, you'll need to apply the same encryption settings to the Adapter as well. For information on how to configure encryption, please refer to Section 4.3.2 of this manual for more detail.

4. Configure Client Utility

The Client Utility is a user-friendly utility designed to configure the wireless settings of the USB Adapter as well as to display its network status.

4.1 Current Status

When you open the Client Utility, the system will scan all the channels to find all the access points/stations within the accessible range of your Adapter and automatically connect to the wireless device with the highest signal strength.

From this tab, you can see all the infomration about the wireless connection.

| Λ Atheros Client Utility - Cur | | ? 🛛 | |
|--|--------------------|------------------|---------------|
| Action Options Help | | | |
| Current Status Profile Management | Diagnostics | | |
| Profile Nam | e: Default | | Total 802.11 |
| ATHEROS Link Statu | s: Authenticated | | ATHEROS |
| Wireless Mod | e: 2.4 GHz 54 Mbps | IP Address: | 192.168.7.101 |
| Network Typ | e: Infrastructure | Current Channel: | 6 |
| Server Based Authenticatio | n: None | Data Encryption: | TKIP |
| Signal Strengt | h: | | Excellent |
| | | | Advanced |

4.2 Profile Management

The Profile Managment tab allows you to add and edit profiles for your USB Adapter. Profiles are used to save various settings so you can easily choose between them without having to manually set the settings each time.

| ∧ Atheros Client Utility - Current Profile: Default | ? 🛛 |
|---|---------------------------------------|
| Action Options Help | |
| Current Status Profile Management Diagnostics | |
| See Default | New |
| Profile 1 Profile 2 | Modify |
| | Remove |
| | Activate |
| ← Details | |
| Network Type: Infrastructure | Import |
| Security Mode: None | |
| Network Name 1 (SSID1): <empty></empty> | Export |
| Network Name 2 (SSID2): <empty></empty> | C C C C C C C C C C C C C C C C C C C |
| Network Name 3 (SSID3): <empty></empty> | |
| Auto Select Profiles | Order Profiles |

| Parameter | Description |
|-----------|--|
| New | To add a new profile, click New on the Profile Management tab. |
| Modify | To modify an existing profile, select the desired profile from the list and click Modify . For more information, see 4.3. |
| Remove | To remove a profile, select the desired profile from the list and click Remove . |
| Import | You can import an existing profile if you have previously saved it as a file in your hard drive. |
| Export | You can export a profile and save it as a file in your hard drive. |

Including a profile in the auto selection list allows the Adapter to automatically select that profile from the list and use it to connect to the network.

4.3 Modifying Profiles

4.3.1 General tab

| Profile Management | ? 🛛 |
|--------------------------|-----------|
| General Security Advance | d |
| Profile Settings | |
| Profile Name: | Default |
| Client Name: | |
| Network Names | |
| SSID1: | |
| SSID2: | |
| SSID3: | |
| | |
| | |
| | OK Cancel |

The General tab allows you to set up to three SSIDs for each profile. Enter the SSID of your wireless network in the applicable fields.

4.3.2 Security

| - Set Security Options | | | |
|-------------------------------|------------------|----------------------------------|---|
| 🔿 WPA 🔿 WPA Passphrase | WPA EAP Type: | LEAP | |
| ◯ 802.1x | 802.1x EAP Type: | LEAP | r |
| O Pre-Shared Key (Static WEP) | | | |
| 💿 None | | | |
| Configure | | Allow Association to Mixed Cells | |
| | | | |
| | | | |

By default, wireless security is turned off. To enable encryption, select the appropriate security option from the list. You must use the same encryption settings as your wireless router/access point.

It is recommended to use WPA Passphrase if your wireless router/access point is capable of using WPA security.

To access the Security tab, first select a profile from the Profile Management tab and click Modify, then click on the Security tab. To enable WPA encryption, select **WPA Passphrase** from the list and click **Configure**.

| Profile Management | | | ?× |
|-------------------------------|------------------|----------------------------------|-------|
| General Security Advanced | | | |
| Set Security Options | | | |
| O WPA | WPA EAP Type: | LEAP | |
| • WPA Passphrase | | | |
| ○ 802.1× | 802.1x EAP Type: | LEAP | |
| O Pre-Shared Key (Static WEP) | | | |
| ◯ None | | | |
| Configure | | Allow Association to Mixed Cells | |
| | | | |
| | | | |
| | | | |
| | | ОК СА | ancel |

Enter a Passphrase between 8 and 64 characters long and click **OK**. The Passphrase must be the same as your wireless router/access point is using.

| Define WPA Pre-Shared Key | ? 🛛 |
|--|-----------|
| Enter a WPA Passphrase between 8 and 64 characte | rs long. |
| | OK Cancel |

The Adapter will rescan the network and connect to the wireless router/access point using the provided Passphrase.

To enable WEP encryption, select Pre-Shared Key (Static WEP) from the list and click Configure.

| Profile Management | | | ? 🗙 |
|-----------------------------|------------------|--------------------------------------|-------|
| General Security Advanced | | | |
| Set Security Options | | 이 것 같아요. 것 같아요. 것 같아요. 것 같아. 것 같아. 것 | |
| O WPA | WPA EAP Type: | LEAP 💌 | |
| 🔿 WPA Passphrase | | | |
| O 802.1x | 802.1x EAP Type: | LEAP | |
| Pre-Shared Key (Static WEP) | | | |
| ◯ None | | | |
| Configure | | Allow Association to Mixed Cells | |
| | | | |
| | | | |
| | | | |
| | | | ancel |

Enter the appropriate WEP key values in the applicable fields. The key values, key size, and key entry must be exactly the same as your wireless router/access point is using. Click **OK** when done.

| Define Pre-Shar | ed Key | ; | ? 🛛 |
|-----------------|-----------------|--|-------------------------------|
| Key Entry | 💽 Hex | adecimal (0-9, A-F) OASCII Text (all keyboard ch | naracters) |
| Encryption Keys | Fransmit Key | | WEP Key Size: 64 128 152 |
| WEP Key 1: | | | $\odot \circ \circ$ |
| WEP Key 2: | | | \odot \bigcirc \bigcirc |
| WEP Key 3: | | | \odot \circ \circ |
| WEP Key 4: | | | $\odot \circ \circ$ |
| | | ОК | Cancel |

| Key Button | Description |
|--------------------|---|
| Key Entry | Determines the entry method for an encryption key: hexadecimal (0-9, A-F), or ASCII text (all keyboard characters except spaces). |
| Encryption Keys | Selects the default encryption keys to be used. The Key number must match that of the wireless router/access point. |
| WEP Keys (1- 4) | Click on the radio button to set the key as the default encryption key. |
| WEP Key Size | Defines the size for each encryption key. The options include: |
| | 64-bit (enter 10 digits for hexadecimal, 5 ASCII characters) |
| | 128-bit (enter 26 digits for hexadecimal, 13 digits for ASCII) |
| | 152-bit (enter 32 digits hexadecimal, 16 digits for ASCII) |

The Adapter will rescan the network and connect to the wireless router/access point using the provided WEP key.

4.3.3 Advanced

| The | Advanced | tab allo | ows vou te | o fine-t | une the | Adapter's | wireless | settinas. |
|-----|----------|----------|------------|----------|---------|-----------|----------|-----------|
| | | | | | | | | |

| Profile Management | | | ? 🔀 | | |
|--|------------------------------------|-----------------------|--------------|--|--|
| General Security Advanced | | | | | |
| Transmit Power Level | Power Save Mode: | Normal | ~ | | |
| 802.11b/g: 100 mW 💌 | Network Type: | Infrastructure | ~ | | |
| 802.11a: 40 mW 💌 | 802.11b Preamble: | 💿 Short & Long | 🔿 Long Only | | |
| Wireless Mode 2.4 GHz 54 Mbps | ~Wireless Mode Whe | n Starting Ad Hoc Net | work | | |
| 🗹 2.4 GHz 11 Mbps | O 2.4 GHz 54/11 Mbps Channel: Auto | | | | |
| Super G | | | | | |
| 802.11 Authentication Mode Auto Open Shared | | P | referred APs | | |
| | | 01 | K Cancel | | |

Transmit Power Level: Use the drop-down menu to select the desired transmit power level for the Adapter.

Wireless Mode: By default, all modes are enabled. To disable a mode, uncheck the corresponding check box.

Power Save Mode: Select the desired power save mode.

Network Type: Choose between Infrastructure or Ad-Hoc.

Note: You will not be able to access the Internet if you set the Adapter to Ad-Hoc mode. To allow other wireless clients to access the Internet through the Adapter in Ad-Hoc mode, you will need to configure your computer as a router and a DHCP server. The vendor will not provide any technical support in regards to the USB adapter functioning as an access point.

802.11b Preamble: Choose between Short & Long or Long Only.

4.4 Diagnostics

The Diagnostics tab provides a list of the Adapters statistics.

| Atheros Client Utili ction Options Help | ty - Current Profile: Default | ? |
|---|-------------------------------|---|
| Current Status Profile Ma | anagement Diagnostics | |
| Transmit Multicast Packets: Broadcast Unicast Packets: Total Bytes: | 10 5508 358 281801 | Adapter Information Advanced Statistics |
| Receive Multicast Packets: Broadcast Unicast Packets: Total Bytes: | 3 4 3 1902 | |

| Parameter | Description |
|---------------------|---|
| Adapter Information | The Adapter Information contains general information about the network interface card (the wireless network adapter) and the network driver interface specification (NDIS) driver. |
| Advanced Statistics | Displays even more advanced statistics about the Adapter. |

5. 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 Hardware tab and click on Device Manager.



Step 3 Expand **Network adapters** from the list and verify that **Atheros USB 2.0 Wireless Network Adapter** is listed and no yellow question mark is beside it.

| La Device Manager | |
|--|--|
| File Action View Help | |
| \leftarrow \rightarrow $ $ \blacksquare $ $ \textcircled{a} $ $ | |
| COMPUTER COMPUTER Computer Six drives Disk drives Display adapters DVD/CD-ROM drives Floppy disk controllers Floppy disk controllers Floppy disk drives The Human Interface Devices Floppy disk drives Floppy disk dri | |
| Ports (COM & LPT) Processors Sound, video and game controllers System devices | |
| ⊡ 🐨 😋 Universal Serial Bus controllers | |

Congratulations! You have successfully installed the Super G Wireless Network Adapter.

Technical Support

E-mail: support@airlink101.com

Toll Free: 1-888-746-3238

Web Site: www.airlink101.com

*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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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

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