



## Quick Start Guide



AeroLAN® AL5403-XG  
802.11g Wireless CardBus Adapter



**ASANTÉ**  
www.asante.com

### Introduction

Thank you for purchasing an Asanté FriendlyNET AeroLAN-XG™ Wireless Adapter. This adapter is designed to be the most economical way to add high-speed 802.11g wireless functionality to your small business or home office network.

- Provides fast wireless network connection up to a 54 Mbps (IEEE 802.11g) – interoperable with Apple AirPort and AirPort Extreme Base Stations
- Share broadband and network resources wirelessly from home, office, and public wireless hotspots
- Simplify wireless connections with built-in site manager
- Free telephone technical support when using with Mac OS X 10.2.5 or higher and AirPort 3.1.1 or Windows 98SE/Me/2000/XP

### Packing List

Your package contains the following items:

- FriendlyNET AeroLAN-XG Wireless CardBus Adapter
- This Quick Start Guide
- Drivers Utility CD-ROM

### System Requirements

- **Macintosh Minimum Requirements:** Apple PowerBook running Mac OS X 10.2.5 or higher and AirPort 3.1.1 with 32MB RAM and an available 32-bit CardBus slot
- **PC Minimum Requirements:** Pentium 133 with 32MB RAM; Microsoft Windows 98, Me, XP, and 2000 with an available 32-bit CardBus slot

### Software Installation

**NOTE: If you have previously installed other wireless drivers, be sure to uninstall them first.**

Follow the steps below to install the device driver and wireless configuration utility for the AeroLAN Wireless CardBus Adapter.

### Driver Installation

**WARNING: Do not install the AeroLAN Wireless CardBus Adapter in your laptop until the driver and utility are correctly installed.**

#### Mac OS X 10.2.5

Apple AirPort 3.1.1 or later is required.

#### Mac OS X 10.3

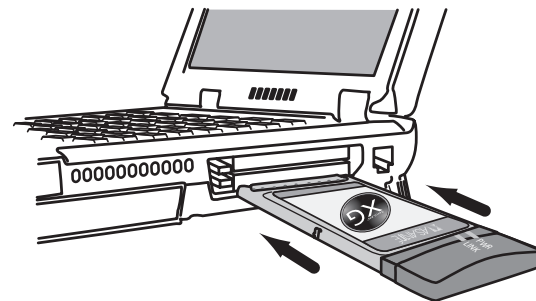
No driver and utility installation is needed; the AeroLAN-XG adapter is supported natively under Mac OS X 10.3 or later. Follow the hardware installation instructions to properly install the AeroLAN-XG adapter and configure the AeroLAN-XG the same way as an Apple AirPort Extreme adapter.

#### Windows

1. Insert the driver utility CD-ROM into your CD-ROM drive.
2. Locate the WLSetup.exe file on the driver utility CD-ROM and double-click.
3. Follow the on-screen instructions to install the AeroLAN-XG Wireless Utility and driver.
4. Follow the hardware installation instructions and insert the AeroLAN-XG adapter into your laptop.
5. Follow the Hardware Installation Wizard and locate the driver on the CD-ROM to install the driver.
6. Restart the computer when complete.

### Hardware Installation

Here's how to install this adapter:



### Installing the Adapter into a Laptop

1. Turn off the power to the laptop.
2. Insert the adapter into any available CardBus slot in your laptop.
3. Turn on the power to your computer and allow the computer to start up to the desktop.

### Visit Asanté at [www.asante.com](http://www.asante.com)

#### Main Corporate Telephone Numbers

800-662-9686 (Home/Office Solutions)  
800-303-9121 (Enterprise Solutions)  
408-435-8388

#### Technical Support

[www.asante.com/support](http://www.asante.com/support)

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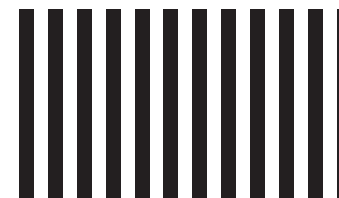
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## Asanté Product Registration

Name

Title

Company

Address 1

Address 2

City

State

Zip/Postal

Country

Phone

Fax

Email

Date of Purchase

Asanté Part Number

Product Serial Number

## In a few moments, you will see the status of your network card:

**A. Power** - Green LED on when the adapter is powered on.

**B. Link** - Green LED on when wireless connection has been properly established. Green LED flashes when transmitting or receiving data.



## Free Technical Support and Warranty

Two years of free telephone technical support via web and ftp; two-year product warranty.

## Product Registration

To register your Asanté product, please visit:

<http://www.asante.com/support/registration.html>

## Product Specifications

### Security and Performance

**Encryption:** 64/128-bit WEP

**Data Rates:** 802.11b: Maximum 11 Mbps. Auto-ranging: 1, 2, 5.5, 11 Mbps  
802.11g: Maximum 54 Mbps. Auto-ranging: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

### Radio

**Frequency:** 2.412-2.497 GHz ISM frequency band

**Channels:** 1-11 for USA and Canada

**Transmit Power:** 15 dBm

**Antenna:** Integrated microstrip dual diversity

**Modulation Techniques:** 802.11b: CCK (11, 5.5 Mbps), DQSP (2 Mbps), DBPSX (1 Mbps)  
802.11g: OFDM (54 Mbps)

**Typical Coverage Area:** 802.11b: Indoor up to 50 M at 11 Mbps;  
outdoor up to 130 M at 11Mbps  
802.11g: Indoor up to 20 M at 54 Mbps;  
outdoor up to 50 M at 54 Mbps

### Physical Characteristics

**Dimensions (L x W x H):** 4.5 x 2.1 x 0.3 inches (115 x 54 x 7.5 mm)

**Weight:** 0.09 lbs (0.04 Kg)

**Power:** 350 mA (receive) to 550 mA (transmit) typical

**Operating Temperature:** 32° to 104° F (0° to 40° C)

**Relative Humidity:** 10% to 90%, non-condensing

### Standards Compliance

**Network:** IEEE 802.11b (up to 11 Mbps)  
IEEE 802.11g (up to 54 Mbps)

**Network Protocols:** TCP/IP

**Emissions:** FCC Class B

### Support

**Technical Support:** 24-hour support via web and ftp. 2-year email and telephone support

**Product Warranty:** 2-year product warranty covers defects in manufacturing and workmanship

## Product Specifications

### Overview

**Wireless Standards:** 802.11g (backwards compatible with 802.11b)

**Hardware Interface:** 3.3 V, 32-bit CardBus Type II

**Status Indicators:** Link and activity LEDs

**Supplied Drivers:** Apple: Native support with Mac OS X Version 10.2.6 or later with Ai rPort 1.1 or later software  
Microsoft: Windows 98/98SE/Me and 2000/XP  
Linux  
*See the Asanté website for the latest drivers*

### Troubleshooting Tips

In the unlikely event your network is not operating properly, follow the troubleshooting tips below.

- Check that your wireless adapter is firmly seated into PC slot.
- Confirm that your wireless router/hub/access-point is broadcasting a strong signal, and that your computer is located within the allowable range.
- Check to see if device driver has been properly installed.
- Check your computer's software. Check your operating system manual for instructions on configuring your network for file and print sharing.
- Check to see if your wireless adapter has been properly configured with the correct SSID and WEP encryption settings.

### Need More Help?

Consult the Asanté website ([www.asante.com](http://www.asante.com)) for additional troubleshooting tips and frequently asked questions (FAQs). You may also contact Asanté Technical Support during standard business hours.

**Email:** [www.asante.com/support](http://www.asante.com/support)

## Tips for Better Wireless Reception

The signal quality and range of any wireless Ethernet card is affected greatly by the environment in which they are placed. Here are some tips on getting the most out of your wireless network when using the AeroLAN-XG wireless adapter:

- The best rule of thumb for good signal strength and quality is to have line-of-sight from the wireless router/access point to the wireless computers. This means the user should be able to see the router from the location where the wireless client is placed
- Keep the wireless router/access point in an open area away from any large objects such as cubicles, walls or other obstructions
- Keep the wireless router/access point away from any electro-magnetic emitting devices such as computers, electrical cables, televisions, and other appliances commonly found in the home or office
- Keep obstructions from the immediate vicinity of wireless card antennas
- Elevate the wireless router/access point above desktop clutter and low to mid-level obstructions, such as furniture
- Rotate the wireless router/access point and computers until the best signal strength is achieved
- The number of walls windows, doorways and other building structures will reduce the range of the wireless signal. Place the wireless router/access point in the path of least resistance through these structures for the best signal quality to the wireless workstations
- The type of walls, windows, doorways or other building structures will affect the range of the wireless signal. Structures such as metal framed housed, windows containing UV protective film, and residences with multiple floors will all affect the signal quality
- Standing too close to a AeroLAN wireless adapter antenna will affect its signal strength and quality

## Safety and Regulatory Compliance

### FCC Compliance Statement

NOTE: 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 or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Consult the dealer or an experienced radio/TV technician for help.

### Safety Advisory

1. Always turn off power to your computer before installing hardware.
2. Always practice ESD techniques when installing hardware.
3. Always use this product in a cool, dry, dust-free environment or danger of electrocution or fire may result.

**AeroLAN-XG  
AL5403-XG**

**Wireless  
CardBus**



Tested To Comply  
With FCC Standards

FOR HOME OR OFFICE USE