



Quick Installation Guide

16-Port 10/100/1000Mbps Green Switch

Model# AGSW1600



Ver. 1A

Trademarks

Copyright © 2011 Airlink101®

Airlink101® is a registered trademark. All other trademarks belong to their respective proprietors.

Copyright Statement

No part of this publication may be reproduced in any form or by any means or used to make any derivative such as translation, transformation, or adaptation without permission from Phoebe Micro, Inc.

Preface

FCC Warning

This device has been tested and found to comply with limits for Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the user's manual, may cause interference in which case the user will be required to correct the interference at his own expense.

CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Introduction

Congratulations on your purchase of the 16-Port 10/100/1000Mbps Green Switch! It is an easy-installed network switch which helps you to extend your network structure quickly and reliably. The 16-Port 10/100/1000Mbps Green Switch is designed for energy saving, easy installation and high performance in an environment where network traffic and the number of users increase continuously. You can add other Ethernet devices like computers, IP cameras, and Network Attached Storage (NAS) onto your network quickly and easily. The Green EEE (Energy Efficient Ethernet) technology of AGSW1600 automatically reduces the power usage when a connected port is detected inactive (idle or cable-unplugged) and intelligently allocates less power for a port that connects with an Ethernet cable shorter than 20m (66 ft)*.

Before you begin the installation, please check the items of your package:

Package Contents:

- 16-Port 10/100/1000Mbps Green Switch
- Power Cord
- Quick Installation Guide
- Brackets and Screws

Section 1

Hardware Description

1.1 Hardware Interface

- 16-Port 10/100/1000Mbps auto-negotiation RJ45 Ports
- All ports support auto MDI/MDIX, no need to use cross-over cables

1.2 Panel

1.2.1 Front Panel

The front panel of the Switch consists of LED indicators, and 16 10/100/1000Mbps ports. The figure below shows the front panel of the Switch.

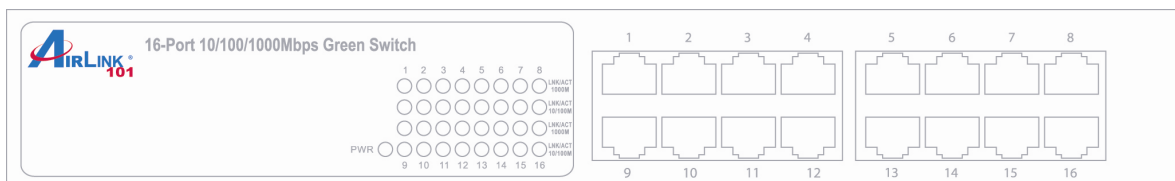


Figure 1-1 Front Panel view of the Switch

- 10/100/1000Mbps Ports (Port 1~16): These ports support 10/100/1000Mbps, and can operate in Half/Full Duplex transfer modes. These ports also support automatic MDI/MDI-X crossover detection, giving true “plug and play” capability.
- LED Indicators: Comprehensive LED indicators display the status of the Switch and the network (see Section 1.2.3).

1.2.2 Rear Panel



Figure 1-2 Rear Panel view of the Switch

- AC Power Connector: Supports AC 100~240V, 50~60Hz.



NOTICE:

Do not cover or put anything on or surrounding the Switch while the Switch is operating.

1.2.3 LED indicators information

The front panel LEDs provide instant status feedback and help monitoring and troubleshooting when needed.

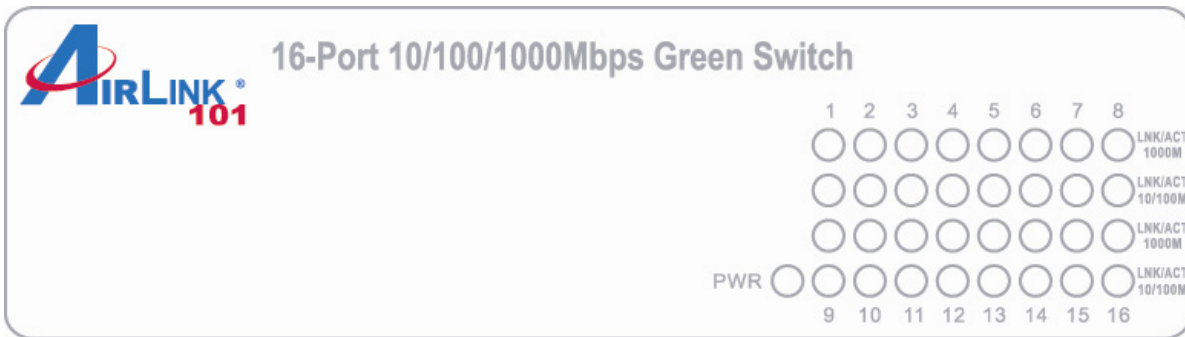


Figure 1-3 Front Panel view of the Switch

- **POWER: Power Indicator**

LED	Color	Status		
		Solid	Blinking	Off
POWER	Green	The Switch is power-on	N/A	No power

- **Port 1~16 10/100/1000Mbps Status LEDs**

LED	Color	Status		
		Solid	Blinking	Off
LINK/ ACT 10/100M	Green	The respective port is successfully connected to the 10/100Mbps Ethernet network	The port is transmitting or receiving data at 10/100Mbps	No link
LED	Color	Status		
		Solid	Blinking	Off
LINK/ ACT 1000M	Blue	The respective port is connected to the 1000Mbps Ethernet network	The port is transmitting or receiving data at above 100Mbps	No link

Section 2

Installing the Switch

The site where you place the Switch may greatly affect its performance.

2.1 Installation

Please follow the guidelines below to install the Switch:

- Please install the Switch in a fairly cool and dry place. Please refer to the Technical Specifications for the acceptable temperature and humidity operating ranges.
- Please install the Switch on a sturdy, level surface that can support its weight.
- When connecting the power cord to the Switch and the power outlet, the distance should be no more than 182cm.
- Please leave at least 10cm (about 4 inches) of space at the front and rear of the Switch for ventilation.

2.2 Desktop or Shelf Installation

When installing the Switch on the desktop or shelf, please attach the rubber feet to the Switch. Peel off the protective paper on the pads and attach them to the bottom of the Switch (one at each corner).

2.3 Rack Installation

The Switch is rack-mountable and can be installed on an EIA 11-inch equipment rack. To do this, first install the mounting brackets on the Switch's side panels (one on each side), secure them with the included screws, and then use the screws provided with the equipment rack to mount the Switch.

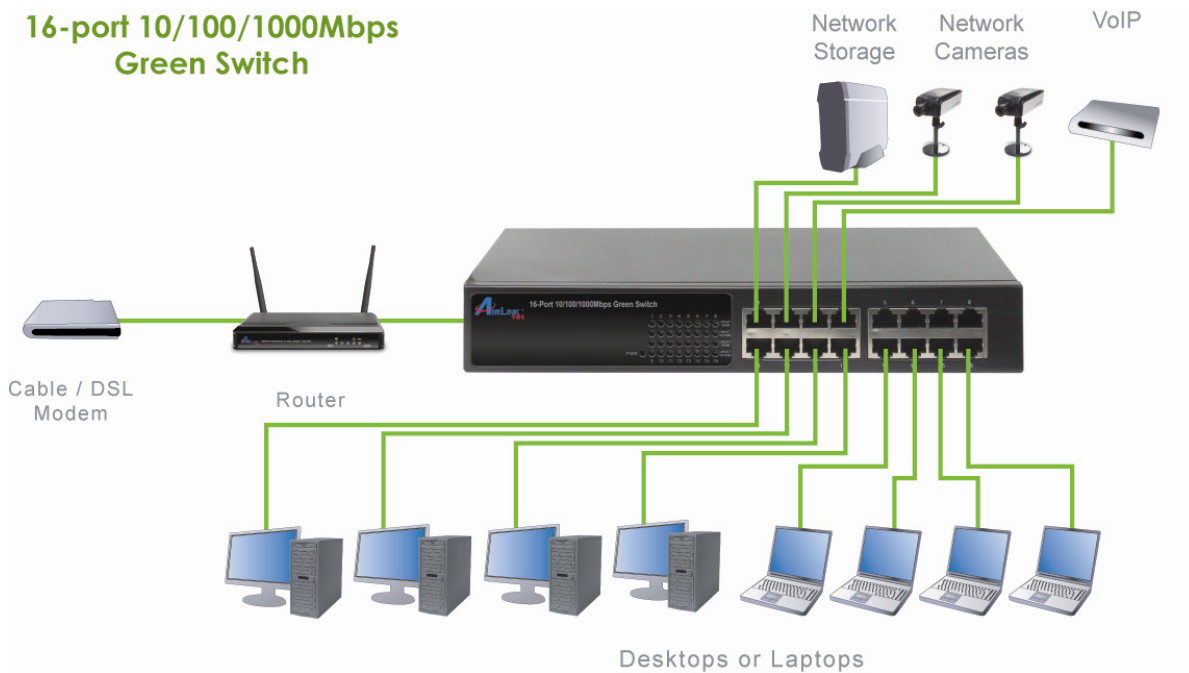
2.4 Power on the Switch

The Switch has a universal power supply ranging from 100V to 240V AC, 50 ~ 60Hz power source. The AC power connector is located at the rear of the unit. The switch's power supply will adjust to the local power source automatically.

Section 3

Connecting the Switch

This section describes how to connect the Switch to your 10/100/1000Mbps Ethernet network.



Your network device (i.e. computer, switch, IP Camera, VoIP) can be connected to any port of the Switch via a two-pair UTP Category 5 Cable. If the LED indicators do not light up after making a proper connection, check your network device, the cable, the Switch conditions and connections.

Section 4

Troubleshooting

1. Power LED is not lit
 - Check if the power adapter is properly connected to the power outlet. Make sure the power jack is firmly plugged into the power socket of the switch.
2. Link/Activity is not lit when connect to 10/100/1000Mbps device
 - Check the power switch of the network device attached to the switch; make sure it is turned ON.
 - Check the network cable; make sure it is properly connected to the switch and the network device.
 - Check the network cable; make sure the UTP cables comply with the specifications described in Section 2.

Section 5

Technical Specifications

Standards

- IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE802.3ab 1000BASE-T Gbit. IEEE 802.3x Flow Control and IEEE 802.3az(EEE – Energy Efficient Ethernet)

Network Cables

- Ethernet (10Base-T): Cables: 2-pair UTP Cat. 3, 4, 5, Twisted Pair (UTP). Up to 100m
- Fast and Giga Ethernet (100/1000Base-T): 2-pair UTP Cat. 5, Twisted Pair (UTP). Up to 100m

Ports

- 16 x 10/100/1000Mbps Auto-Negotiation RJ45 Port

Access Method

- CSMA/CD

Transmission Method

- Store and Forward

MAC Address Table

- 8K

Jumbo Frame

- 9216-byte jumbo packet length forwarding at wire speed

Data Transfer Rate**

- Ethernet: 10/20Mbps – Half/Full-Duplex
- Fast Ethernet: 100/200Mbps – Half/Full Duplex
- Giga Ethernet 1000/2000Mbps – Half/Full Duplex

LED

- Power: Green
- Link/Activity: 1000M(Blue), 10/100M(Green)

Rack Mount

- 11-Inch Rack-Mountable with mounting kits

Dimensions

- 280x165x45mm (LxWxH)

Weight

- 1200g

Physical and Environmental

- Power Input: 100~240V AC, 50~60Hz
- Operation Temperature: 0 °C ~ 40°C(32 ~ 104°F)
- Storage Temperature: -20°C ~ 70°C(-4 ~ 158°F)
- Humidity: 5% ~ 90% RH, non-condensing

Certification

- FCC, CE

Section 6

Technical Support

E-mail: support@airlink101.com

Toll-Free: 1-888-746-3238*

Web Site: www.airlink101.com

* Free Voice Technical Support is only available within the hardware warranty (1-Year Limited Warranty from the date of purchase). Customer is required to provide invoice as purchase evidence.

**Network conditions and environmental factors as well as network overhead can lower actual data throughput rate.

Copyright © 2011 AirLink101®. All rights reserved. AirLink101, the stylized AirLink101® logo, specific product designations, and all other words and logos that are identified as trademarks and/or service marks are, unless noted otherwise, the trademarks and service marks of AirLink101®. All other product or service names are the property of their respective holders. AirLink101 products are protected under numerous U.S. and foreign patents and pending applications, mask work rights, and copyrights.