User Guide

AES2002P

24 x GE | 2 x GE Base-T/SFP Combo | 2 x GE SFP | PoE+

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This manual is applicable to AES2002P. Unless otherwise specified in the manual, the product diagram shows AES2002P as an example.

Packing List

When using the Switch for the first time, carefully open the packing box. The packing box should contain the following items:

- PoE Switch * 1
- User Manual * 1
- Power Cord *1
- Console Cable*1
- Mounting Accessories (Rack Mount Kit *2,Rubber Feet *4,Screw *8)

⚠ **Note:** Precision devices are built in the device, please handle them carefully to avoid violent vibration, which may affect the performance of the device. If you find that the equipment is damaged or any parts are lost in the process of transportation, please inform us, we will give you a proper solution as soon as possible.

Chapter 1 Product Introduction

1. Product Overview

Thank you for purchasing this AES2002P Managed PoE Switch.

It is composed of excellent design and in general the development of PoE Switches. It provides rich of two layer management function, has excellent of performance and friendly of management interface, can full meet user of need, including system configuration, and port configuration, and MAC bound, and MAC filter, and VLAN configuration, and SNMP configuration, and ACL configuration, and QOS configuration, and IP basic configuration, and AAA configuration, and MSTP configuration, and IGMP SNOOPING configuration, and GMRP configuration, and EAPS configuration, and RMON configuration, and cluster management, and ONVIF configuration, and ERPS configuration, and log management and PoE configurations.

Support IEEE802.3af/802.3at standard, automatic detection and identification in accordance with standards of electrical equipment, and through the network cable for the power supply.

Chapter 2 Product Appearance Description

2.1 front panel

AES2002P by 24*10/100/1000Mbps and 2*1000Mbps Combo ports and 2*1000Mbps SFP slots, 1 console port, a reset Switch, and a related indicator, as shown below:

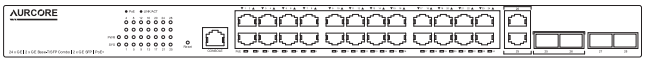

Figure 2-1 Switch front panel diagram

2.2 LED indicator light

LED	Color	Description
PWR	Green	Death: Switch does not power on Permanent: the Switch is powered on
System	Green	Blinking: the system works Out: the system is starting or has no power
LNK/ACT	Green	Death: not connected to the network equipment Green light: connected to 10/1001000Mbps devices Blinking: connected devices are data transmission
PoE	Orange	Death: port is not for terminal equipment power supply Permanent: electrical equipment connected with it, and the normal power supply

2.3 Rear panel

The Real panel of the Switch is introduced:

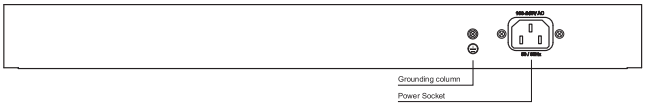

Figure 2-3 Diagram of the rear panel of the Switch

⚠ **Note:** This device relies on the separate protective earthing terminal. The device installation shall be permanently connected to building earth by a skilled person.

The device shall be intended to be used in a location having equipotential bonding (such as a telecommunication centre, a dedicated computer room, or a restricted access area).

- **Grounding column**

The Switch already comes with lightning protection mechanism. You can also ground the Switch through the PE (Protecting Earth) cable of AC cord or with Ground Cable.

- **Power socket**

Connect the female connector of the power cord here, and the male connector to the AC (Alternating Current) power outlet. Please make sure the voltage of the power supply meets the requirement of the input voltage.

Chapter 3 Installation Guide

⚠ **Announcements**

To prevent equipment damage and personal injury caused by improper use, please observe the following precautions:

- Before cleaning Switch should Switch power supply plug pulled out. Do not use wet cloth to wipe the Switch, do not use liquid to clean the Switch;
- Do not Switch on the water or wet places, and prevent water or moisture from entering the Switch chassis;
- Do not place the Switch box in unstable or table, in case of fall, will cause serious damage to the Switch;

- Should maintain good indoor ventilation and keep the ventilation holes of the Switch open;
- Switch to the proper voltage to work properly, make sure the Switch working voltage matches the voltage indicated;
- To avoid the danger of electric shock, do not open the chassis without authorization; If any fault occurs, contact professional maintenance personnel.

3.1 Desktop installation

- Place the bottom of the Switch face up on a large enough stable desktop;
- Tear off the attached sticky paper on the surface of the footpad and paste the footpad into the groove at the bottom of the chassis of the Switch to prevent external vibration;
- Carefully position the Switch upright on the workbench;

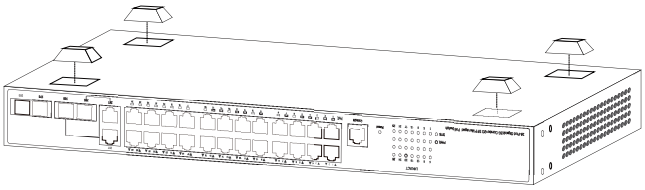

Figure 3-1 Desktop Installation Diagram

3.2 Rack Installation

- Check the grounding and stability of the EIA-19inch cabinet;
- Fix mounting ears to both sides of the front panel of the Switch using screws. Place the Switch on a bracket of the cabinet and move the Switch along the guide rails of the cabinet to a proper position;
- Use screws to fix mounting ears to the guide rails at both ends of the cabinet to ensure that the Switch is securely installed on the brackets in the cabinet slots. The mounting ear of the device is not used for weight bearing, it is only used for fixation;
- When installing devices in a cabinet, brackets (fixed on the cabinet) are provided below the device chassis to support devices.

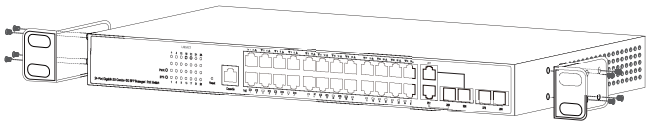

Figure 3-2-1 Diagram 1 of rack installation

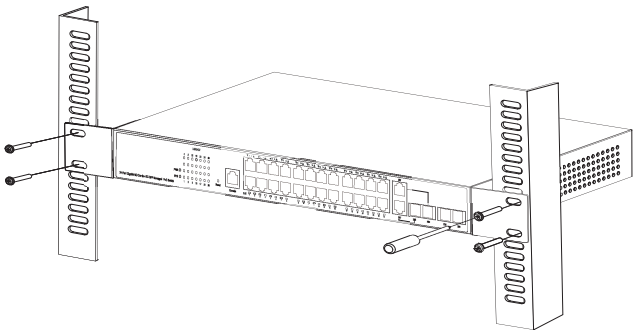

Figure 3-2-2 Diagram 2 of rack installation

3.3 Turn on Switch

Please connect the AC power cord into the rear of the Switch and to an electrical outlet (preferably one that is grounded). When the Switch is power on, the LED indicators flash momentarily for one second, which represents a resetting of the system. The Power LED indicator turns on green.

Note: Please confirm the voltage is correct before power on, otherwise the Switch will be damaged.

(The power input is: 100V-240Vac, 50/60Hz.)

Appendix: Technical Specifications

Model	AES2002P
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1X, IEEE 802.1q, IEEE 802.1p, IEEE 802.1d, IEEE 802.1w, IEEE 802.3ad, IEEE802.3af, IEEE802.3at
Network Media	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5 cable (≤100m) 1000BASE-T: UTP category 5e,6 cable (≤100m) 1000Base-X: MMF or SMF SFP Module (optional)
MAC Address Table	8K, Auto-learning, Auto-updating
Jumbo Frame	9216Bytes
Transfer Mode	Store-and-Forward
Frame Forward Rate	10Base-T: 14881pps/port 100Base-TX: 148810pps/ port 1000Base-T: 1488095pps/ port
Switching Capacity	56Gbps
Dimensions (L*W*H)	440*207*44mm
Fan	2pcs
Power Input	AC: 100-240V，50/60Hz
PoE Port	Port 1~24
PoE Power On RJ45	Mode A 1/2 (-) , 3/6 (+)
PoE Power Output	Voltage: 55V DC Power: 30W (Max)
PoE Power Budget	250W
Power Supply	280W
Operating Temperature	0°C ~ 40 °C (32°F ~ 104°F)
Storage Temperature	-40 °C ~ 70 °C (-40°F ~ 158°F)
Operating Humidity	10% ~ 90% non-condensing
Storage Humidity	5% ~ 90% non-condensing