



## User Guide

AES2001P

8 x GE | 2 x GE | 2 x GE SFP | PoE+



www.aurcore.net

This manual is applicable to AES2001P. Unless otherwise specified in the manual, the product diagram shows AES2001P as an example.

## Chapter 2 Product Appearance Description

### 2.1 Front Panel

Introduction of switch front panel:

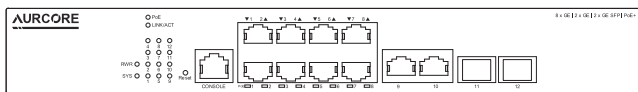


Figure 2-1 Switch front panel diagram

### 2.2 LED Indicator

The LED indicator light of the switch is shown in the following table. Users can easily and quickly monitor the work and operation status of the switch through the following indicator light:

LED	Color	Function
PWR	Green	Death: Switch does not power on Permanent: the Switch is powered on
SYS	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 10/100/1000Mbps 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

### 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
- > 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

### 1.1 Product Overview

AES2001P is a managed switch developed by our company. 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 ERPS configuration, and log management, and PoE configurations.

1-8 ports support PoE feature, 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.

### 2.3 Rear Panel

The rear panel of the switch is introduced:



Figure 2-2 Diagram of the rear panel of the switch

#### > AC Power port

This is an AC power socket, connect the negative plug of the power cord to this interface, and connect the positive plug to the AC power supply.

#### > Lightning protection grounding pole

It is located to the left of the power interface. Please use wire grounding to prevent lightning strike.

**Precautions:** The product has provision for a permanently connected protective grounding conductor, this conductor need to install to building earth by a skilled person.

## Chapter 3 Installation Guide

This chapter helps users correctly install and safely use Switches.

### 3.1 Installation Precautions

**Precautions:** To avoid equipment damage and personal injury, observe the following precautions:

- > The Switch room should be dry and ventilated, free from corrosive gases and strong electromagnetic interference.
- > The humidity of the Switch equipment room should be lower than 90%. Install proper devices when possible.
- > The grounding of the Switch shall comply with the grounding requirements described in this manual, and shall be separately and well grounded.
- > The Switch voltage should be stable to prevent abnormal operation of the Switch caused by power supply voltage mutation, fluctuation and other phenomena.
- > Keep a proper distance between the Switch and other devices. Do not stack other devices with the Switch.

- The connection cable between the Switch and the distribution frame should be standardized and reasonable, and the distribution frame (box) jumper wire should be concise and clear to prevent the phenomenon of parallel lines and wires.
- To avoid the danger of electric shock, do not open the chassis without authorization; If any fault occurs, contact professional maintenance personnel.

**⚠ Safety Tips:**

- Use a three-hole socket with safe grounding, and ensure that the PGND cable of the power socket is properly grounded.
- Ensure sufficient space for heat dissipation and ventilation of the Switch. Do not place heavy objects on the Switch.

### 3.2 Installation Environment

Before installation, make sure that the proper working environment is available, including power requirements, adequate space, proximity to other equipment to be connected, and other equipment in place. Please confirm the following installation requirements:

- Ensure the stability of the workbench and good grounding;
- Environment requirements: The operating temperature ranges from 0°C to 40°C (32°F to 104°F) and the working humidity is 10% ~ 90%.

4

### 3.3 Installation

#### Rack mounted

- Check the grounding and stability of the 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.

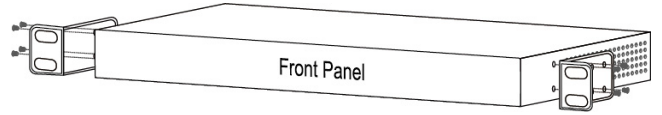


Figure 3-1 Diagram 1 of rack installation

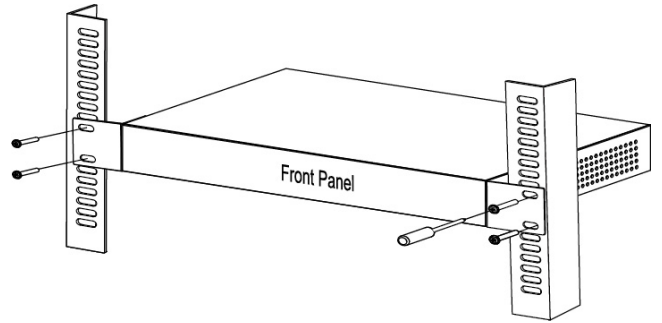


Figure 3-2 Diagram 2 of rack installation

5

#### 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.

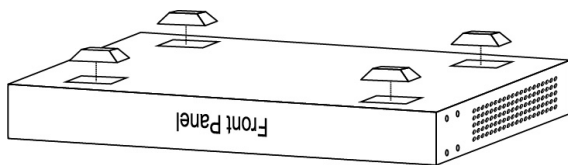


Figure 3-3 Desktop installation diagram

### 3.4 Enabling the Switch

Connect the switch to the power socket using the packaged power cable or power adapter (if available). After the switch is powered on, the switch automatically initializes. If all port indicators are on and off, the system is reset successfully. The power LED indicator is always on.

**Note:** Before powering on the device, ensure that the power supply voltage is consistent with that marked on the switch. Otherwise, the device will be damaged.

6

### Appendix: Technical Specifications

Model	AES2001P
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, IEEE802.1w, IEEE 802.3ad, IEEE802.3af, IEEE802.3at
Network Media (Cable)	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5, 5e cable (≤100m) 1000BASE-T: UTP category 5e, 5 cable (≤100m) 1000BASE-X: MMF, SMF
MAC Address Table	8K, Auto-learning, Auto-update
Transfer Mode	Store-and-Forward
Frame Forward Rate	10Base-T: 14881pps/port 100Base-TX: 148810pps/ port 1000Base-T: 1488095pps/ port
Switching Capacity	24Gbps
Dimensions (L*W*H)	280*180*44mm
Fan Quantity	1pcs
Power Input	100-240V AC, 50/60Hz
PoE Port	Port 1~8
PoE Power on RJ45	Mode A 1/2(+), 3/6(-)
PoE Power Output	Voltage: 54V Power: 30W(Max)
PoE Power Budget	130W
Power Supply	150W
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

7