

User Guide

AES2012P

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



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This manual is applicable to AES2012P. Unless otherwise specified in the manual, the product diagram shows AES2012P as an example.

Chapter 2 Product Appearance Description

2.1 Front Panel

Introduction of switch front panel:

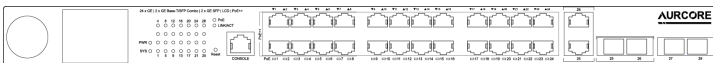


Figure 2-1 Switch front panel diagram

The AES2012P by 24*10/100/1000Mbps and 2*1000Mbps Combo and 2*1000Mbps SFP, one console port, a reset switch, and a related indicator, as shown below:

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 10/100/1000Mbps 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:

- 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

Thank you for purchasing this AES2012P.

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.

The 1-24 ports of the switch support Poe function, among which 1-8 ports support IEEE802.3af/at/bt, and 9-24 ports support IEEE802.3af/at standard. It can automatically detect and identify the power receiving equipment meeting the standard and supply power to them through network cable. The LCD not only can display the PoE work status, accurate judgment port of load, can also help customer and engineer timely discover and solve the network failure, improve work efficiency and quality.

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2.3 Back panel

Back panel: AES2012P have AC power connector, AC input range 100-240V, 50/60HZ, a grounding screw holes, as shown below:

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 center, 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.

3. Installation of equipment

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 ~104°F) and the working humidity is 10% ~ 90%.

3.3 Installation

Rack mounted

- Check the grounding and stability of the cabinet

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- 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.

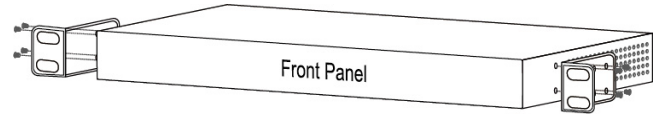


Figure 3-1 Diagram 1 of rack installation

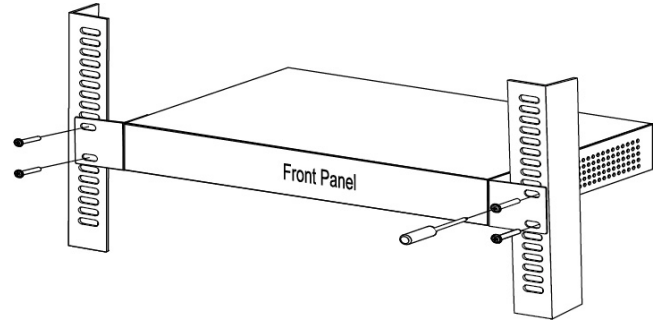


Figure 3-2 Diagram 2 of rack installation

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.

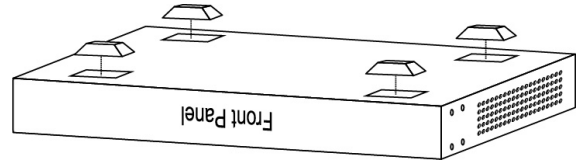


Figure 3-3 Desktop installation diagram

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3.4 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-240V AC, 50/60Hz.)

Appendix: Technical Specifications

Model	AES2012P
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, IEEE802.3bt
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-update
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	2*Fan
Power Input	AC: 100-240V,50/60Hz
PoE Port	Port1~24 (Port1-8 support IEEE802.3bt)
PoE Power on RJ45	Port1-8 Support 4Pairs power lines:1/2 (-),3/6 (+) and 4/5 (+)/7/8 (-) Port9-24 Support 2Pairs power lines:1/2 (-), 3/6 (+)
PoE Power Output	Voltage:55V DC Power: port 1-8: 90W(MAX), port 9-24: 30W (MAX)
PoE Power Budget	480W
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

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