
SWITCH, 8 POE GIGABIT PORTS ART. IPSWP080A



Please read this manual thoroughly before use and keep it for future reference

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Table of Contents

Chapter 1 Product Introduction	3
1.1 Product Overview	3
1.2 Features.....	3
1.3 Environments.....	3
Chapter 2 Installation.....	4
2.1 Installation method	4
2.2 Rack-mountable Installation	4
2.3 Turn on the switch	5
2.4 Indicator LED	5
2.5 Network Connection	6
2.6 Switch connection to the PD	7
Chapter 3 Trouble Shooting	7
3.1 Indicators	7
3.2 Power.....	7
3.3 Cable	7
Appendix: The standard RJ-45 Introduction	8

Chapter 1 Product Introduction

Congratulations on your purchasing of the PoE Ethernet Switch. This switch provides a simple, economical, standard and high performance solution for you. Please read the entire user manual before using the product and save it for future reference.

1.1 Product Overview

The product is desktop design, all-metal chassis and elegant appearance. This product is easy to install, can rack, plug and play, no management; dynamic LED indicator to monitor switch status and troubleshooting work. Supporting 8 10/100/1000Mbps auto-negotiation ports, use store and forward technology, combined with dynamic memory assignment, to ensure it can be distributed to each port. Flow control ensures to prevent data packet from losing while sending and receiving. Compatible with 10Base-T, 100Base-TX, 1000Base-T three network environment. Support IEEE802.3az energy efficient Ethernet (EEE), reduce power consumption by detection cable length and operating loading, auto adjust signal intensity, reduce energy consumption, and protect the environment.

LED panel light displays power and network state dynamically. All ports have PoE function, the power is up to 30 watts each port, compliant with IEEE802.3af, IEEE802.3at standards. POE total power reaches 140W for all ports. It can connect IP phone, IP cameras, wireless LAN access point AP and other PD devices, no need power cords and outlet socket.

1.2 Features

- 8 x 10/100/1000Mbps Auto-negotiation Ethernet RJ45 ports with 8 port PoE
- Supports PoE power up to 30W for each PoE port , supports all power up to 140W
- Supports PoE IEEE802.3af and IEEE802.3at compliant Powered Device (PD)
- Supports IEEE802.3x flow control for Full-duplex Mode and backpressure for Half-duplex Mode
- 8K entry MAC address table of the switch with auto-learning and auto-aging
- LED indicators for monitoring power, link/activity and PoE status
- Internal power adapter supply

1.3 Environments

Operating Temperature: 0°C~40°C

Storage Temperature: -40°C~70°C

Operating Humidity: 10%~90% non-condensing

Storage humidity: 5%~90% non-condensing

Chapter 2 Installation

Before installing the switch, make sure that the following "packing list" listed OK. If any part is lost and damaged, please contact your local agent immediately. In addition, make sure that you have the tools to install switch and cables in your hands.

- One PoE Ethernet Switch
- One power cord
- This User Manual
- Four rubber feet, two mounting ears and eights screws

Note: This switch can be placed on a flat surface.

The site where you place the switch may greatly affects its performance. When installing, take the following into your consideration.

2.1 Installation method

Follow the below guide to install the switch.

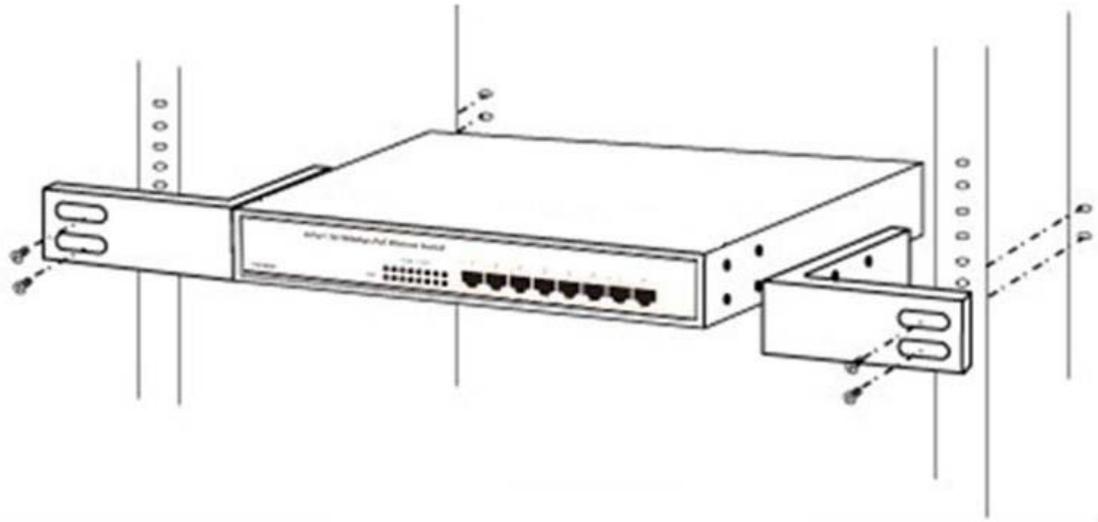
- Please install the switch in a fairly cool and dry place. See the Technical Specification for the acceptable temperature and humidity operation ranges.
- Installing the switch on a sturdy, level surface that can support its weight (at least 5KG).
- Connect the power cord to the switch and the power outlet. The distance is less than 150 cm.
- Leave at least 10cm (about 4 inches) of space at the front and rear of the switch for ventilation.

2.2 Rack-mountable Installation

The switch is rack-mountable and can be installed on an EIA-11 inch equipment rack. To do this, first, please 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 on the 11 inch rack.



Step 1



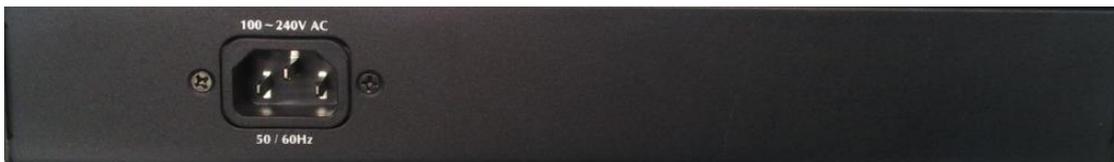
Step 2

2.3 Turn on the switch

Please plug the power cord into the switch, the internal power system of the switch can auto-regulate the working power according to the actual input power. When the switch is power on, the power indicator will be light on the front panel of the switch shines.

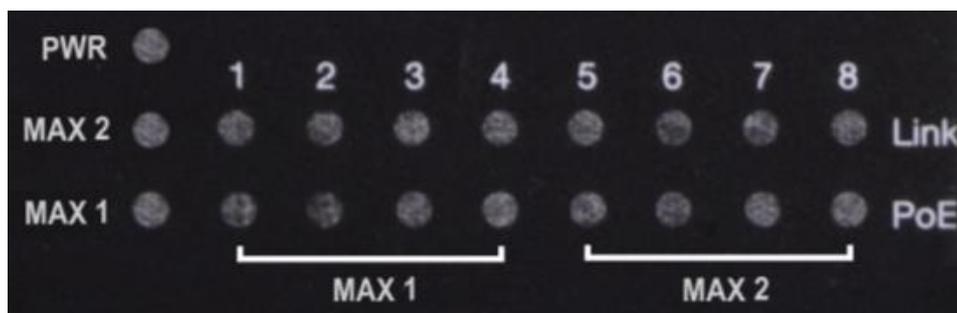
Note: Please confirm the voltage is correct before power on, otherwise the switch will be damaged.

There is a power supply socket on the back panel of the 8-port PoE Ethernet switch. The power input is: 100V-240V, 50/60Hz.



8-port PoE Ethernet Switch back panel

2.4 Indicator LED



8-port PoE Ethernet Switch LED Indicators

LED	Color	Status	Description
PWR	Green	On	Power is supplied
		Off	No power
Link	Orange (10/100Mbps); Green (1000Mbps)	On	A valid link is established
		Blinking	Data packets transferring
		Off	No link is established
PoE	Orange	On	There is a PoE PD connected to the port, which supply power successfully.
		Off	No PD connect to the port.
MAX 1 (1-4 Ports)	Yellow	On	When the power which output to PDs has reached the maximum power budget (the power of all the connected PoE ports is $\geq 55W$). No power may be supplied if additional PDs are connected.
		Blinking	When the power which output to PDs has exceeded the maximum power budget (the power of all the connected PoE port is $\geq 70W$).
		Off	The power of all the connected PoE ports is $< 55W$, or No PD connected to the corresponding port.
MAX 2 (5-8 Ports)	Yellow	On	When the power which output to PDs has reached the maximum power budget (the power of all the connected PoE ports is $\geq 55W$). No power may be supplied if additional PDs are connected.
		Blinking	When the power which output to PDs has exceeded the maximum power budget (the power of all the connected PoE port is $\geq 70W$).
		Off	The power of all the connected PoE ports is $< 55W$, or No PD connected to the corresponding port.

2.5 Network Connection

Connect your devices (computer, router, switch, etc.) to the ports with a CAT-5/CAT-5e/CAT-6 network cable. Since the switch supports Auto MDI/MDI-X you can use either a straight or crossed network cable.

2.6 Switch connection to the PD

All ports of switch have POE power supply function, the maximum output power up to 30W each port, it can make PD devices, such as internet phone, network camera, wireless access point work, provide five levels of 3.84 ~ 25.5W electric power request. You only need to connect the switch POE port directly to the PD port by network cable.

Chapter 3 Troubleshooting

The switch can be easily monitored through panel indicators to assist you identify some problems. This section describes common problems you may encounter and where you can find possible solutions.

3.1 Indicators

If Link indicator does not light up after making a connection, you may check whether network interface (e.g., a network adapter card on the attached device), network cable or switch port is defective or not. Be sure that the cable is plugged into both the switch and corresponding device. Verified the proper cable type is used and its length does not exceed specified limits.

3.2 Power

If the power indicator does not turn on when the power cord is plugged in, you may have a problem with power outlet or power cord. However, if the switch powers off after running for a while, check for loose power connection, power loses or surges at power outlet. If you still cannot resolve the problem, contact your local dealer for assistance.

3.3 Cable

RJ-45 Ports: use unshielded twisted-pair (UTP) or shield twisted-pair (STP) cable for RJ-45 connections:

1. CAT-3/CAT-4/CAT-5 UTP cable when the switch connect with a 10Base-T device.
2. CAT-5/CAT-5e UTP cable when the switch connect with a 100Base-TX device.
3. CAT-5e/CAT-6 UTP cable when the switch connect with a 1000Base-T device.
4. Be sure that the length of any twisted-pair connection does not exceed 100 meters (328 feet).

Appendix: The standard RJ-45 Introduction

Please note cable-making methods, because if the cable does not meet the standards of the sequence data will make the data transmission speed slow, unstable and even be blocked, the following chart represents that the standard RJ-45 jack and the connector and pin definition:



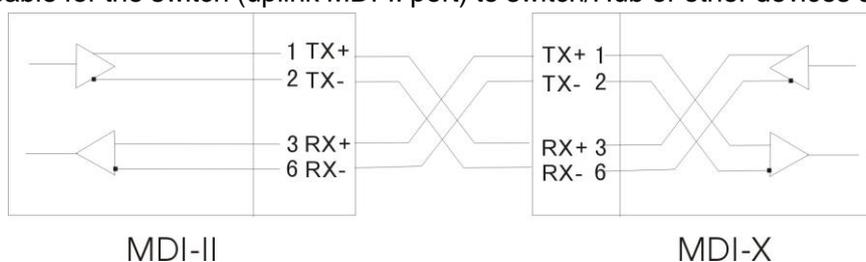
Standard RJ-45 jack / connector

RJ-45 connector pin definitions	
Pin Number	Signal
1	TX1 + (PoE Power+)
2	TX1 - (PoE Power+)
3	RX1 + (PoE Power-)
4	
5	
6	RX1 - (PoE Power-)
7	
8	

The standard cable, RJ-45 pin assignment

The following shows straight cable and crossover cable connection, please use straight cable to connect switch/Hub or other devices:

Straight cable for the switch (uplink MDI-II port) to switch/Hub or other devices connection.



Cross over cable for switch (MDI-X port) to switch/hub or other network devices (MDI-X port) connection.

