

# Quick Start Guide



**20-Port Gigabit L2 Managed PoE+ Switch**

## 1 Features

- Conforms to IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3af, IEEE 802.3at.
- Provides 16 10/100/1000Base-T ports and 2 Gigabit Combo + 2 Gigabit SFP ports.
- Provides 16 PoE+ injector and 250W Built-in power supply.
- High back-plane bandwidth 40 Gbps.
- IEEE 802.3x Flow control
- 6KV Surge protection

## 2 Login Information

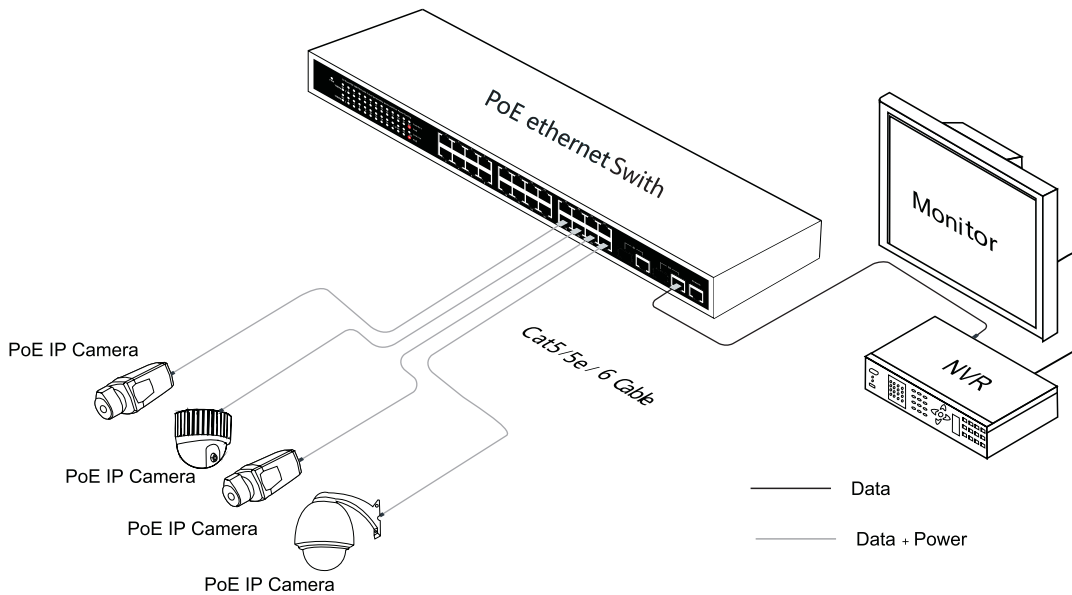
The default values of the L2 PRO PoE switches are listed in the table below:

IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254
User Name	admin
Password	admin

**Notice:** The transmission distance is related to the connected cable. Standard Cat5e/6 network cable and the quality of camera will help maximize the furthest distance possible.

## 3 Product Introduction

S7220-16P-250 is an L2 Managed PoE Switch, equipped with 16 Gigabit PoE (10M/100M/1G) and RJ45 & SFP transceiver (1G) slots for flexible link. It is compliant with IEEE 802.3af/at standards with sufficient PoE power budget for any application.



## 4 Specifications

	Item	Description	
Power	Power supply	Built-in power supply	
	Voltage Range	AC100~240V	
	Consumption	250W for 16 PoE	
Ethernet	Speed	1~16 Port:10/100/1000Mbps 17-18:10/100/1000Mbps Gigabit Combo Port 19~20:1000Mbps SFP port(SFP support optical module rates:1.25Gbps)	
	Transmission Distance	100Meter(328ft)for RJ-45 SFP optical module is optional, and the transmission distance depends on the optical module	
Network Switch	Ethernet Standard	IEEE802.3/802.3u/802.3ab/802.3z/802.3af/802.3at	
	Switching capacity	40G	
	Transfer Rate		14,880pps for 10Mbps
			148,800pps for 100Mbps
		1,488,000pps for 1000Mbps	
MAC Address	8K MAC address table		
LINK / ACT	On	Green	The port connection speed is 1000Mbps
		Orange	The port connection speed is 10/100Mbps
	Blinks	-	The port is receiving or transmitting data
		-	The port is not linked successfully with the device
POE	On	Green	PD is connected
		Off	-
	PoE pin assignment		V+(RJ45 Pin 1,2), V-(RJ45 Pin 3,6)
	Environment	Working Temperature	0~40 °C
Storage Temperature		-40~70 °C	
Humidity Non condensing		0~90%	
Mechanical	Dimension	440 x 200 x 44mm	
	Color	Black	

Specification change will not be noticed

## 5 Installation Steps

Please check the following items before installation, if it is missing, please contact the dealer.

- 20-Port Gigabit L2 Managed PoE+ Switch 1pcs
- AC power cable 1pcs
- Accessory 1pcs
- User manual 1pcs

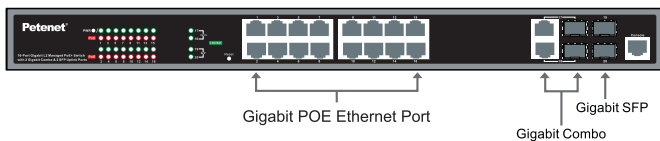
### Please follow the below installation steps

- 1) Please turn off the signal power and display device power before installation, installation with power will damage the transmission equipment.
- 2) Use a network cable to connect the PoE IP camera or other devices to 1-16 PoE port of the PoE Switch.
- 3) Use a network cable to connect equipment to the uplink port and NVR or computer.
- 4) Connect AC power.
- 5) Check if the installation is correct equipment is in good condition the connection is stable then provide power for system.
- 6) Ensure the Ethernet equipment with power and work properly.
- 7) Use a network cable to connect the PC to the console port, and use login information in page to manage PoE switch via software.

## 6 Board Diagram

20-Port Gigabit L2 Managed PoE+ Switch

### Front board



### Back board



## 7 Troubleshooting

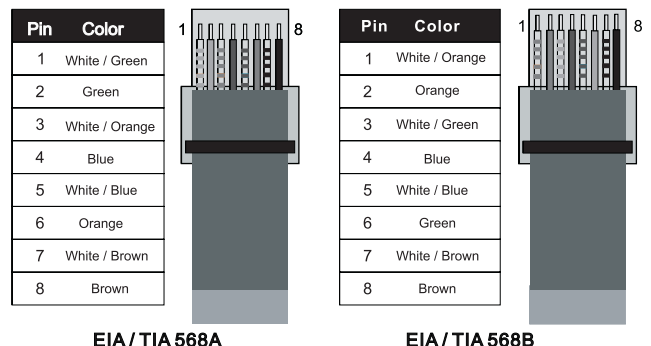
Please follow the steps if the equipment has trouble

- Make sure the equipment is installed according to the manufacturer's installation guide.
- Confirm RJ45 cable order meets EIA/TIA 568A or 568B standard.
- Every PoE port can provide PoE equipment maximum power less than 30W, please do not connect the PoE equipment with power over 30W.
- Replace the equipment with a proper functioning 20 Port Gigabit L2 Managed PoE Switch to check if the equipment is damaged.
- Please contact your vendor if trouble still exists.

## 8 Plug Producing Method

Instruments to be used: wire crimper, network tester and wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

- 1) Please remove 2cm of the insulating layer and bare 8 pairs UTP cable
- 2) Separate the 8 pairs UTP cable and straighten them.
- 3) Line up the 8 pieces of cables per EIA TIA 568A or 568B.
- 4) Cut off the cables to leave 1.5cm bare wire.
- 5) Plug 8 cables into RJ45 plug make sure each cable is in each pin.
- 6) Use the wire crimper to crimp it.
- 7) Repeat above 6 steps to make the another ends.
- 8) Use network tester to test the cable if it works.



### Notice:

When choosing RJ45 make sure if one end is EIA / TIA568A. the other end should also be EIA / TIA568A. When choosing RJ45 make sure if one end is EIA / TA568B. the other end should also be EIA / TIA568B.