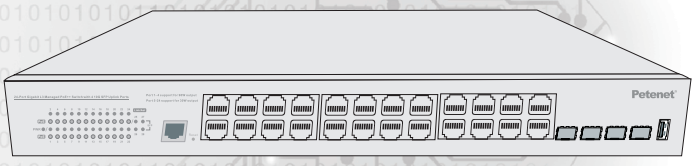
Petenet®

Quick Start Guide



28-Port Gigabit L3 Managed PoE++ Switch

1 Features

- Conforms to IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ae, IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt.
- Provides 24 10/100/1000Base-T ports and 4 10G SFP+ ports.
- 24 POE Ports,1-4 ports support IEEE802.3af/at/bt of 90 watts per port, 5-24 ports support IEEE802.3af/at of 30 watts per port, with capability 750 watts total budget.
- High back-plane bandwidth 128 Gbps.
- IEEE 802.3x Flow control
- 6KV Surge protection

2 Login Information

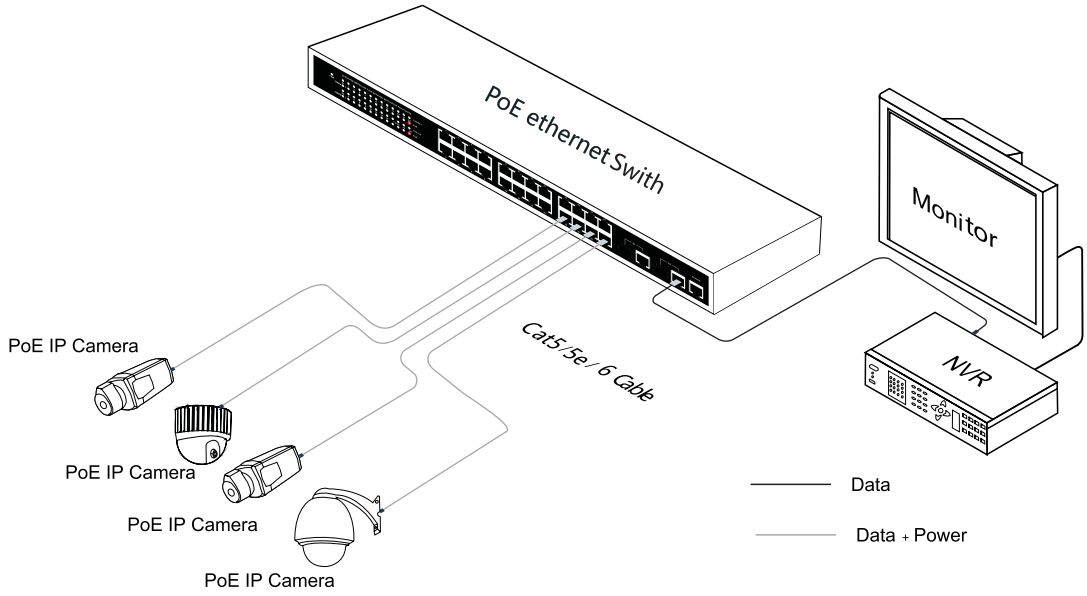
The default values of PoE switches are listed in the table below:

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

The device, a managed PoE Switch, is designed for the edge of the access and LAN to provide high-quality network connections. It provides 24 10/100/1000 Base-T ports and 4 10Gigabit SFP+ ports, as well as 24 PoE injectors.



4 Specifications

Item			Description
Power	Power supply		Built-in power supply
	Voltage Range		AC100~240V
	Consumption		750W (720W for PoE)
Ethernet	Speed		1~24 Port: 10/100/1000Mbps 25~28: 10G SFP Port
	Transmission Distance		100Meter(328ft)for RJ-45 2Km 20Km for SFP Port The optical module is optional
	POE output for each port		Port 1- 4 support for IEEE802.3 af/at/bt and power up to 90W Port 5-24 support for IEEE802.3af/at and power up to 30W
Network Switch	Ethernet Standard		IEEE 802.3/802.3u/802.3ab/802.3z/802.3ae/802.3af/at/bt
	Switching capacity		128G
	Transfer Rate		14,880pps for 10Mbps
			148,800pps for 100Mbps
			1,488,000pps for 1000Mbps
			1,488,0000pps for 10000Mbps
	MAC Address		16K MAC address table
LINK / ACT	On	Green	The port is connecting
	Blinks	-	The port is receiving or transmitting data
	Off	-	The port is not linked successfully with the device
POE	On	Green	PD is connected
	Off	-	No PD is connected or power forwarding fails
	PoE pin assignment		IEEE 802.3af/at/:2 pairs V+(RJ45 Pin 1,2),V-(RJ45 Pin 3,6) IEEE 802.3bt/:4 pairs V+(RJ45 Pin 1,2),V-(RJ45 Pin 3, 6) V+(RJ45 Pin 4,5),V-(RJ45 Pin 7,8)
Enviro -nment	Working Temperature		0~40 ℃
	Storage Temperature		-40~70 ℃
	Humidity Non condesing		0~90%
Mecha -nical	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.

- 28-Port Gigabit L3 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 1-24 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.

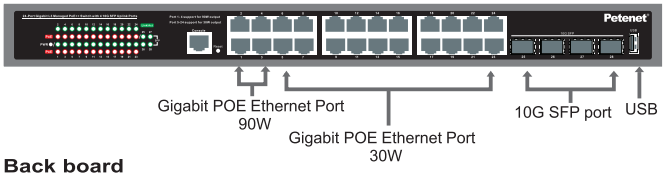
6) Ensure the Ethernet equipment with power and work properly.

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

28-Port Gigabit L3 Managed PoE++ Switch

Front board



Back board

Power input port
INPUT: 100-240VAC

7 Troubleshooting

Please follow the steps if the equipment has trouble

- Make sure the equipment is installed according to the manufacture's installation guide.
- Confirm RJ45 cable order meets EIA/TIA 568A or 568B standard.
- 1-4 port can provide PoE equipment maximum power maximum power less than 90W , other PoE port can provide PoE equipment maximum power less than 30W, please do notconnect the PoE equipment over maximum power.
- Replace the equipment with a proper functioning 24 ports PoE Ethernet 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.

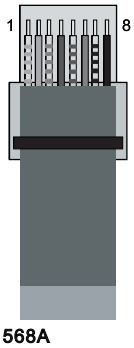
5) Plug 8 cables into RJ45 plug make sure each cable is in each pin.

6) Use the wire crimper to crimp it.

7) Repeat above 6 steps to make the another ends.

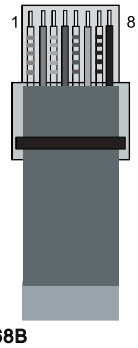
8) Use network tester to test the cable if it works.

Pin	Color
1	White / Green
2	Green
3	White / Orange
4	Blue
5	White / Blue
6	Orange
7	White / Brown
8	Brown



EIA / TIA 568A

Pin	Color
1	White / Orange
2	Orange
3	White / Green
4	Blue
5	White / Blue
6	Green
7	White / Brown
8	Brown



EIA / TIA 568B

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.