Petenet®

Quick Start Guide

52-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 48 10/100/1000Base-T ports and 4 10G SFP+ ports.
- 48 POE Ports,1-4 ports support IEEE802.3af/at/bt of 90 watts per port, 5-48 ports support IEEE802.3af/at of 30 watts per port, with capability 750 watts total budget.
- High back-plane bandwidth 176 Gbps.
- IEEE 802.3x Flow control
- 6KV Surge protection

2 Login Information

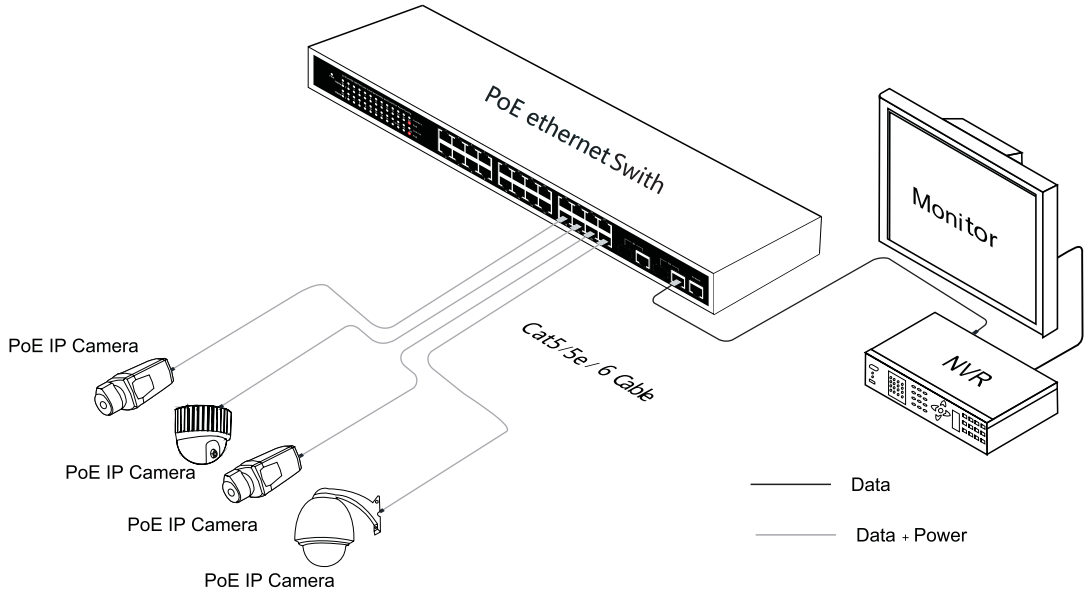
The default values of PoE switches are listed in the table below:

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 48 10/100/1000Base-T ports and 4 10Gigabit SFP+ ports, as well as 48 PoE injectors.



4 Specifications

Item			Description
Power	Power supply		Built-in Power Supply
	Voltage Range		AC100~240V
	Consumption		750W (720W for PoE)
	POE output for each port		Port 1- 4 support for IEEE802.3 af/at/bt and power up to 90W Port 5-48 support for IEEE802.3af/at and power up to 30W
Ethernet	Speed		1~48 Port: 10/100/1000Mbps 10G SFP: 10G SFP Port
	Transmission Distance		100Meter(328ft)for RJ-45 2Km 20Km for SFP Port The optical module is optional
Network Switch	Ethernet Standard		IEEE 802.3/802.3u/802.3ab/802.3z/802.3ae/802.3af/at/bt
	Switching capacity		176G
	Transfer Rate		14,880pps for 10Mbps
			148,800pps for 100Mbps
			1,488,000pps for 1000Mbps
			1,488,0000pps for 10000Mbps
	MAC Address		32K 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	Orange	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 300 x 44mm
	Color		Black

5 Installation Steps

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

- 52-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 1-48 POE port of the POE Switch.

3) Use a network cable to connect equipment to the uplink port and NVR or compute;

4) Connect AC power;

5) Check if the installation is correct, the equipment is in good condition and the connection is stable; then connect power to the system;

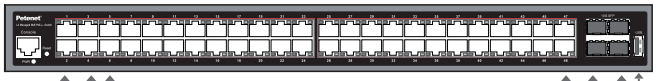
6) Ensure the PoE Switch has power and works properly.

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

52-Port Gigabit L3 Managed PoE++ Switch

Front board



Gigabit POE Ethernet Port 90W

Gigabit POE Ethernet Port 30W

USB 10G SFP+ port

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 48 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 long 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.

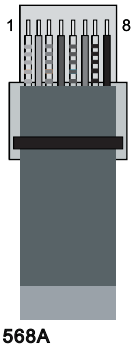
5) Plug 8 cables into RJ45 plug make sure each cable is in each pin.

6) Use the wire crimper to crimp it.

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

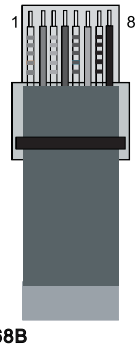
8) Use network tester to test the cable if it works.

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.