Petenet®

Quick Start Guide

8-Port Gigabit PoE+ Switch
2 Gigabit RJ45 & 2 SFP Uplink Ports

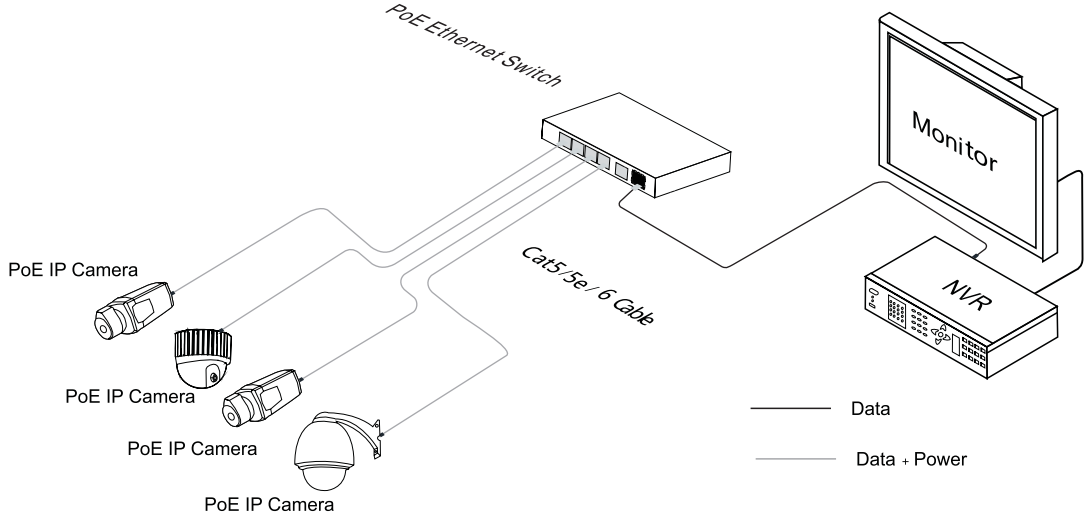
1 Features

- The switch supports one-key function conversion, currently supports 4 modes, DEFAULT mode, VLAN mode, EXTEND mode, WATCHDOG mode.
  DEFAULT: Normal mode, no special function (Normal mode all switch down).
  VLAN: Ports 1-8 do not communicate with each other; they communicate only with uplink ports. This controls broadcast storm and strengthens security.
  Extend: Ports 1-8 communicate with each other and with uplink ports. Ports 1-8 can transmit up to 250m Cat5e/6rated cable or higher.
  PoE Watchdog: If a linked network port receives no data for 2-3 minutes, PoE Watchdog cuts and restores power to that port, causing the linked device, such as an IP camera, to restart.
- Conforms to IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3af/at.
- Provides 10 10/100/1000Base-T ports and 2 Gigabit SFP.
- Provides 8 PoE+ injectors ports and 120W Built-in power supply.
- High back-plane bandwidth 24Gbps.
- IEEE 802.3x Flow control
- 6KV Surge protection

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.

2 Product Introduction

The 8-Port PoE+ Gigabit Ethernet Switch is designed for Ethernet HD security monitoring systems and Ethernet projects. The product is fully integrated with features tailored for security monitoring, offering fast packet forwarding capabilities. With its full Gigabit transfer rates, it provides sufficient bandwidth to ensure clear images and smooth transmission, meeting the demands of high-definition video.



3 Specifications

Item			Description
Power	Power supply		Built-in power supply
	Voltage Range		100~240VAC
	PoE Budget		120W
Ethernet	Speed		Ports 1 to 10: 10/100/1000 Mbps Port 11 to 12: Gigabit SFP
	Transmission Distance		RJ45: 328 ft. (100 Meters) SFP Port: Transmission distances vary with type of SFP module used.
Network Switch	Ethernet Standard		IEEE 802.3 / 802.3i / 802.3u / 802.3ab / 802.3z / 802.3af / 802.3at
	Switching capacity		24G
	Transfer Rate		14,880pps for 10Mbps
			148,800pps for 100Mbps
			1,488,000pps for 1000Mbps
	MAC Address		2K MAC address table
LINK / ACT	On	Green	The port is connected
	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	–	PD is connected or power forwarding fails
	PoE pin assignment		V+ (RJ45 Pin 1, 2), V- (RJ45 Pin 3, 6)
Enviro -nment	Working Temperature		0°C~40°C
	Storage Temperature		-40°C~70°C
	Humidity Non condesing		0~90%
Mecha -nical	Dimension		200 x 118 x 44mm
	Color		Black

Specifications are subject to change without prior notice.

4 Installation Steps

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

- 8-Port Gigabit PoE+ Switch 1pcs
- Rack mount kit 1pcs
- AC power cable 1pcs
- User manual 1pcs

Please follow the below installation steps

1) Ensure that all devices are powered off before installation.
NOTE: Installing with the power on will damage the equipment.

2) Use network cable to connect PoE IP cameras or other devices to Ports 1-8 of the PoE Switch.

3) Use network to connect equipment to the uplink port and NVR or computer.

4) Connect AC power;

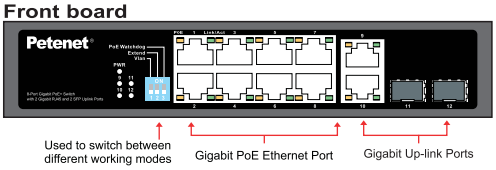
5) Check if the installation is correct, the equipment is in good condition and the connection is stable; then provide power for system;

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

5 Board Diagram

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

Front board



Back board

6 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/TIA568A or 568B standard.
- Each PoE port can provide maximum power of 30W. Do not connect equipment requiring over 30W.
- Replace the equipment with a proper functioning 8-Port PoE Ethernet Switch to check if the equipment is damaged.
- Please contact your vendor if trouble still exists.
- Total PoE power between all 8 PoE Ports is limited to 120W.

7 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) 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.

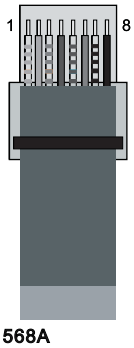
5) Plug 8 cables into RJ45 plug make sure each cable is in each pin.

6) Use the wire crimper to crimp it.

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

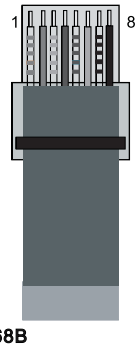
8) Use network tester to test the cable if it works.

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

Choosing:

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