

Quick Start Guide



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

1 Features

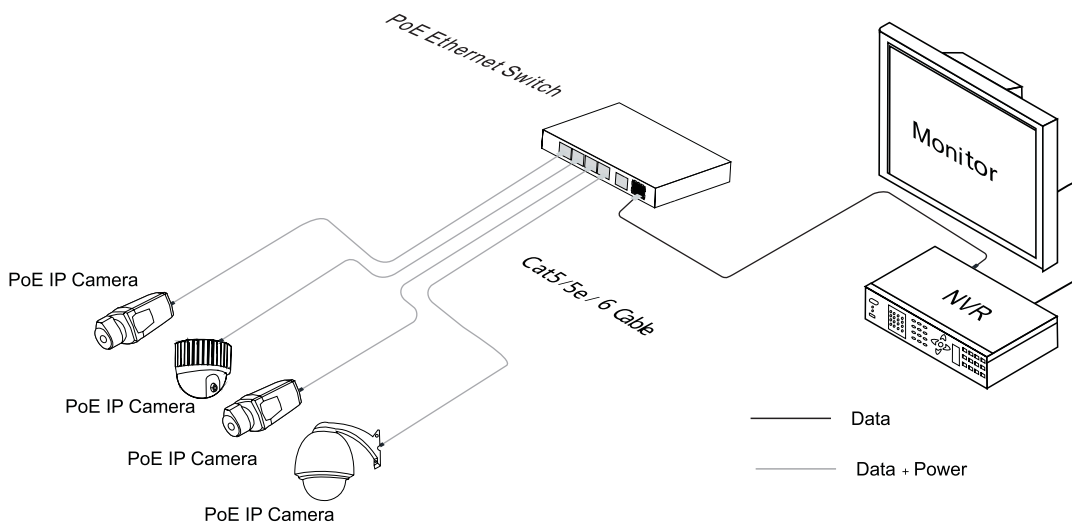
- The switch supports one-key function conversion, currently supports five modes, DEFAULT mode, VLAN mode, EXTEND mode, WATCHDOG mode, QOS mode.
 - DEFAULT:** Normal mode, no special function (Normal mode all switch down).
 - VLAN:** Ports 1-24 do not communicate with each other; they communicate only with uplink ports. This controls broadcast storm and strengthens security.
 - Extend:** Ports 1-24 communicate with each other and with uplink ports. Ports 1-24 can transmit up to 250m Cat5e/6 rated 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.
 - QOS:** QOS is the specified port with port data priority, priority is higher than other ports, other ports data priority is equal. 1-2 ports specify the priority, then the data forwarding of these two ports has a higher priority than the other ports, so the data of these two ports are preferentially forwarded.
- Conforms to IEEE802.3, IEEE 802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3af/at
- Provides 26 10/100/1000Base-T ports and 2 Gigabit SFP
- Provides 24 PoE+ injectors ports and 360W Built-in power supply
- High backplane bandwidth 56 Gbps
- IEEE802.3x 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 24-Port Gigabit PoE+ Switch is fully integrated to support security monitoring, providing high-performance packet forwarding and Gigabit Ethernet transfer rates. Adaptive ports automatically adjust bandwidth to ensure clear images and smooth transmission for any application, including high-definition video recording or streaming. The AI DIP switch enables PoE Watchdog, QoS, Extend, and VLAN modes to further enhance performance and security.



3 Specifications

Item		Description	
Power	Power supply	Built-in power supply	
	Voltage Range	100~240VAC	
	PoE Budget	360W for PoE	
Ethernet	Speed	Ports 1 to 26: 10/100/1000 Mbps Ports 27-28: 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	56G	
	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 is connected	
	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 -	PD is connected or power forwarding fails	
	PoE pin assignment	V+ (RJ45 Pin 1, 2), V- (RJ45 Pin 3, 6)	
Environment	Working Temperature	0°C~40°C	
	Storage Temperature	-40°C~70°C	
	Humidity Non condensing	0~90%	
	Ports Surge	6KV	
Mechanical	Dimension	320 x 207 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.

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

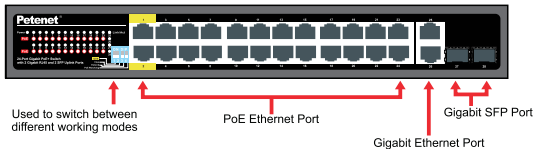
Please follow the below installation steps

- 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 1-24 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 manufacturer'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 24 port PoE Ethernet Switch to check if the equipment is damaged.
- Please contact your vendor if trouble still exists.
- Total PoE power between all 24 PoE Ports is limited to 360W.

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.