

Quick Start Guide



8-Port Gigabit PoE+ Switch

1 Features

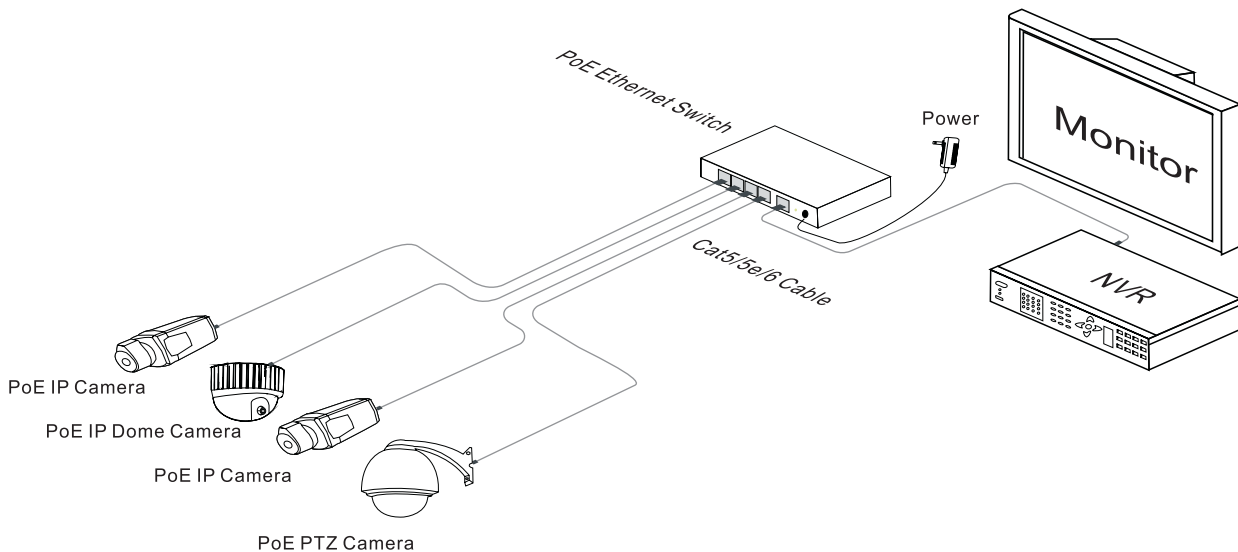
- The switch supports one-key function conversion, currently supports five modes, DEFAULT mode, VLAN mode, EXTEND mode, WATCHDOG mode, QOS mode.
 - DEFAULT:** Normal mode, no special function (Normal mode all switch down).
 - VLAN:** Ports 2-8 do not communicate with each other; they communicate only with uplink ports. This controls broadcast storm and strengthens security.
 - Extend:** Ports 2-8 communicate with each other and with uplink ports. Ports 2-8 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.
 - QOS:** QOS is the specified port with port data priority, priority is higher than other ports, other ports data priority is equal. 7-8 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 IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af/at.
- Provides 8 10/100/1000 Base-T ports.
- Provides 8 PoE+ injectors and 120W power adapter.
- High back-plane bandwidth 16Gbps.
- IEEE 802.3x Flow control
- 4KV 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 Gigabit PoE Switch, equipped with 8 PoE (Power over Ethernet) ports, is designed specifically for security monitoring applications. It offers rapid packet forwarding to maintain the clarity and smoothness of video transmissions. With support for Gigabit Ethernet speeds, it optimizes bandwidth utilization, ensuring high-definition video streams are delivered with sufficient bandwidth for crystal-clear images and seamless playback.



3 Specifications

Item		Description	
Power	Power supply	External Power Adaptor	
	Voltage Range	DC 48-57V	
	Consumption	<5W	
Ethernet	Speed	1~8 Port : 10/100/1000Mbps	
	Transmission Distance	100Meter (328ft)	
Network Switch	Ethernet Standard	IEEE 802.3/802.3u/802.3ab/802.3af/at	
	Switching capacity	16G	
	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 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	
	Capacity	115W	
	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	138 x 79 x 25 mm	
	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
- Power adaptor 1pcs
- AC power cable 1pcs
- User manual 1pcs

Please follow the below installation steps

- 1) Please turn off the power signal and the display device's power before installation. Please note: Installing with the power on will damage the equipment.
- 2) Use a network cable to connect the PoE IP camera or other devices to 1-8 PoE port of the PoE Switch.
- 3) Use a network cable to connect equipment to the uplink port and NVR or computer.
- 4) Connect the AC cable to the unit.
- 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.

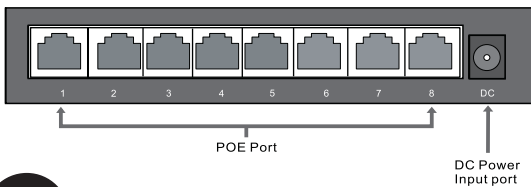
5 Board Diagram

8-Port Gigabit PoE+ Switch

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.
- Replace the equipment with a proper functioning 8 Port Gigabit PoE Switch to check if the equipment is damaged.
- Please contact your vendor if trouble still exists.

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.

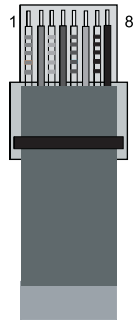
- 1) Please remove 2cm of the insulating layer and bare 8 pairs UTP cable.
- 2) Separate the 8 pairs of UTP cable and straighten.
- 3) Line up the 8 pieces of cables per EIA TIA 568A or 568B.
- 4) Cut off the cables to leave 1.5cm bare wire.
- 5) Plug 8 cables into RJ45 plug make sure each cable is in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

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 an RJ45, ensure that if one end is EIA/TIA568A, the other end is also EIA/TIA568A.

When choosing an RJ45, ensure that if one end is EIA/TIA568B, the other end is also EIA/TIA568B.