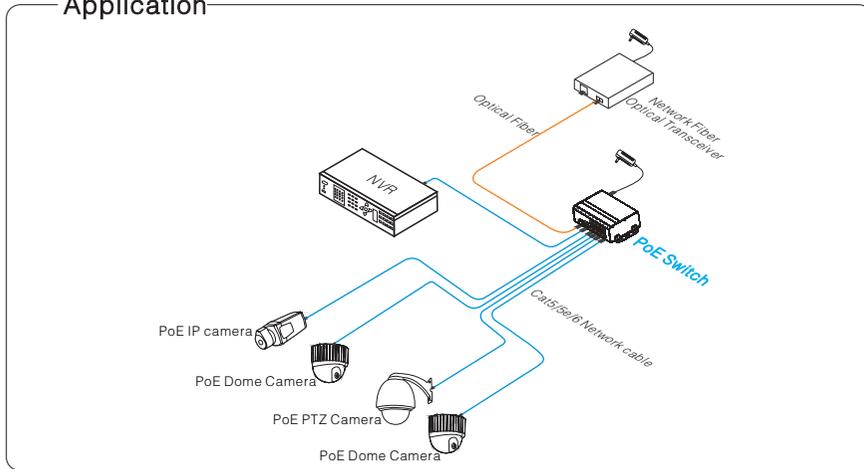


# 4 Ports PoE Ethernet Switch

This switch is a kind of unmanaged switch with PoE function. It has one uplink Ethernet port and one 100Mbps optical port; four 100Mbps PoE Ethernet ports support IEEE802.3af/at standard. This product is designed for HD IP Camera, enable these devices to have power supply without connecting to the power socket. It makes the connection of those devices far away from the power more flexible and simplify wiring. This product integrates with optical port to realize perfect integration between fiber optical transceiver and Ethernet switch, solve the problem of long distance transmission. It can be used in surveillance, network engineering and so on.

## Application



## Feature

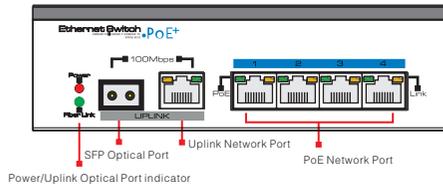
- Provide four 10/100Mbps PoE Ethernet ports, support power supply for the network device meet IEEE802.3 af/at standard, Don't worry about the damage of devices which is not PoE;
- PoE network port support IEEE802.3 af/at standard, it can provide 30W consumption and power supply to the big consumption infrared camera;
- Provide 2 uplink ports, 100Mbps optical port and Ethernet port; Uplink optical port reserve SFP port for users to select different performance SFP optical fiber module, conveniently solving the problem of long distance transmission;
- The switch and every PoE Ethernet ports have reset button for users to solve IP camera crash and others problem, no need to pullout and plug network cables, which is convenient for system maintenance; The reset button is on the bevel, convenient for users to operate from multi-angle;
- Support IEEE802.3X full duplex flow control; support Auto MDI/MDIX function;
- The transmission distance of uplink Ethernet port up to 150m, break the limit of 100m network cable;
- Redundance power design, power heat backup or raise power consumption;
- Industrial standard product, fold metal outershell heat dissipation without fan designed;
- Excellent circuit isolation protection, the lightning protection can up to 4KV;
- Installation fast, easily operation, convenient for wall, din rail and desktop installation.

## Notice

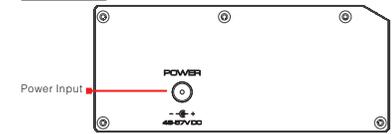
- 1) Transmission distance is related to the connecting cable. We suggest to use standard Cat5e/6 network cable to get the 150m transmission distance;
- 2) If using optical port, customer need to purchase SFP module additional.

## Board diagram

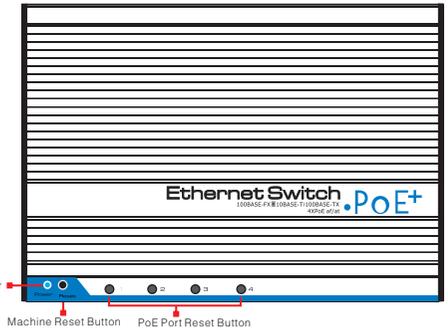
### Front



### Left



### Top



### Back



## Introduction

- 1) Front board with 4 PoE Ethernet ports, the yellow light on the RJ 45 socket left side is to indicate the PoE status, the green light on the right side is to indicate network status; there are 2 Uplink ports, 1 SFP Optical port (reservation, configure optical transceiver depend on the customer's requirement) and 1 Ethernet port. The green LED on the left side is to indicate optical port working status, red LED is to indicate power status, the green light on the Ethernet RJ 45 socket is to indicate Ethernet port working status;
- 2) The left board and back board have a DC48V~57V power input port respectively; default with a 60W power adapter, the PoE output consumption of every port is 15W on the average, maximum output consumption is 30W; if need each port output 30W, need to purchase another 60W power adapter in addition.

## Installation steps

Please check the following items before installation. If any missing, please contact the dealer.

- 4 Ports POE Ethernet switch 1pc
- Power adapter 1pc
- MIT hangers 2 pcs
- Din rail hanger 1 pc
- User manual 1pc

### Please follow the following installation steps

- 1) Please turn off the signal source and the device's power, installation with power on may damage the device;
- 2) Use 4 network cables to connect 4 IP cameras with POE switch's 1~4PoE port;
- 3) Use another network cable (or optical fiber) to connect PoE Ethernet switch's UPLINK port with NVR or computer;
- 4) Connect PoE switch with power adapter;
- 5) Check if the installation is correct and device is good, make sure all the connection is reliable and power up the system;
- 6) Make sure every network device has power supply and work normally.

## Specification

Item	Description	
Power	Power Supply	Power adapter DC48V 1.25A
	Power Voltage	DC48V~57V
	Consumption	<5W
Network connector	Network Port	1-4 port:10/100Mbps PoE network port UPLINK port:10/100Mbps network port SFP:100Mbps optical fiber SFP module port
	Transmission Distance	UPLINK port:0~ 150m SFP: Depend on the optical module transmission performance
	Transmission Medium	Cat5e/6 standard network cable
	PoE Protocol	IEEE802.3af/at
	PoE Power Supply	End span
Network switch	PoE Power Consumption	Every PoE port output <30W; Default with 60W power adapter, every port output <15W on the average, if need every port output 30W, then need to purchase another 60W power adapter.
	Network Standard	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3ab 1000BASE-TX; IEEE802.3z 1000-SX/LX; IEEE802.3 X
	Switch Way	Store and forward
	Package Data Cache	512K
LED Status Indicator	MAC Address List	2K
	Power	1 (red) on the front board; 1(red) on the lean board
	Optical Port	1 SFP port indicator (green)
Button	Uplink Network Port	1 (green on the RJ 45 socket)
	PoE Network	4 PoE status indicator (yellow on the RJ 45 socket)
Protection	PoE Reset Button	4 corresponding with 1-4 port, PoE reset after press the button
	Reset button	1, switch restart after press this button
Environmental	Communication Port Lightning Protection	4KV per: IEC61000-4-5
	ESD	1a contact discharge 3 level 1b air discharge 3 level Per:IEC61000-4-2
Mechanical	Working temperature	-0°C~55°C
	Storage temperature	-40°C~70°C
	Humidity (non-condensing)	0~95%
Stability	Dimension (L x W x H)	159mm x 110mm x 46.5mm
	Material	Aluminum
	Color	Black
	Weight	540g
MTBF	>30000h	

Product are subject to change without prior notice.

## Trouble Shooting

Please find the following solution when the device doesn't work

- Please confirm if the installation is correct;
- Please confirm if the RJ45 cable order in accordance with the EIA/TIA568A or 568B industry standards;
- The maximum consumption of every PoE port can supply to the PoE device can't over 30 W, please do not use the PoE device which consumption over 30W;
- Please replace a normal device with a failure one to check if the device is broken;
- If the problem still exist, please contact the factory.

## RJ 45 Making Method

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

- 1) Shuck off about 2cm long the insulating layer, and bar the 4 pairs UTP cable;
- 2) Depart the 4 pairs UTP cable and straighten them;
- 3) Line up the 8 pieces of cables per EIA/TIA 568A or 568B;
- 4) Cut out 1.5 cm cable wrap and leave the bare wire;
- 5) Plug 8 cables into RJ45 plug, make sure each cable is in each pin;
- 6) Then use wire crimper to crimp it;
- 7) Follow the 5 steps above to make the another end, following the same sequence of the first plug;
- 8) Using network tester to test the cable whether is working.

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 choose RJ-45 make sure if one end is EIA/TIA568A, the other end should also be EIA/TIA568A.
- When choose RJ-45 make sure if one end is EIA/TIA568B, the other end should also be EIA/TIA568B.