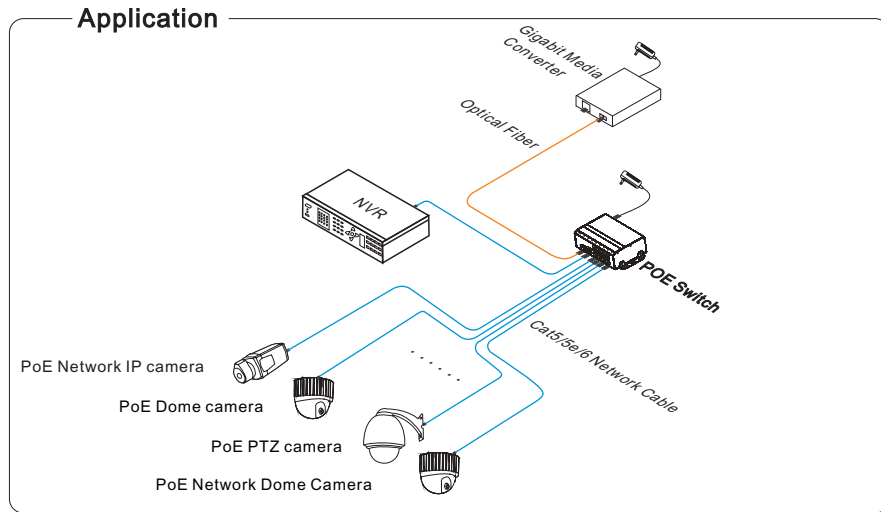# 8 Ports PoE Ethernet Switch

This switch is a kind of unmanaged switch with PoE function. It have one uplink ethernet port and one optical port 1000Mbps; 8 100Mbps PoE ethernet ports support af/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 integrate 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

- Gigabit Media Converter
- Optical Fiber
- NVR
- POE Switch
- Cat5/5e/6 Network Cable
- PoE Network IP camera
- PoE Dome camera
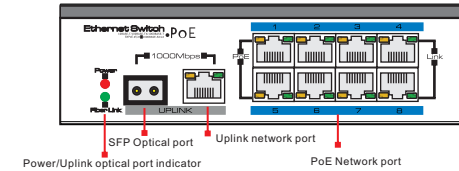- PoE PTZ camera
- PoE Network Dome Camera

■Feature

● Provide 8 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, 1000Mbps optical port and ethernet port; Uplink ethernet port can connect with NVR and other high bandwidth device conveniently; 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;

● The transmission distance of uplink ethernet port can up to 150m, break through the limit of 100 m network cable;

● Up to 1M Package data cache, making more smooth of forwarding high-capacity data;

● Up to 8K for the MAC address, easily for system upgrade;

● Support IEEE802.3X full duplex flow control; support (Auto MDI/MDIX) function;

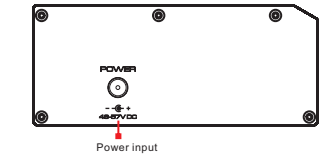● Redundance power design, power heat backup or raise power consumption;

⚠ Notice

1) Transmission distance is related to the connecting cable. We suggest to use standard Cat5e/6 network cable to get the 150 m transmission distance.
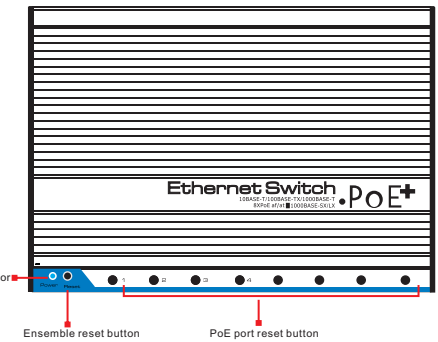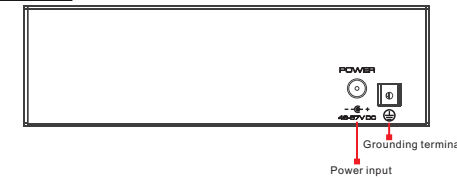
■Board diagram

Front

- SFP Optical port
- Uplink network port
- Power/Uplink optical port indicator
- PoE Network port

Left

- Power input

Up

- Grounding terminal
- Power input
- Power indicator
- Ensemble reset button
- PoE port reset button

Back

Description:

1) Front board with PoE ethernet port, 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; the yellow light and green light on the Uplink network RJ 45 socket is to indicate network working status; the LED on the SFP optical port left side is to indicate power and optical port working status;

2) The left board and back board have a DC48V~57V power input port respectively; default with a 120W power adapter , the PoE output consumption of every port is 15W on the average ,maximum output consumption is 25W; if need each

■Installation steps

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

● POE ethernet switch   1pc
● Power adapter   1pc
● MIT hangers   2 pcs
● Din rail hanger   1 pc

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 8 network cables to connect 8 IP cameras with POE switch's1~8PoE 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;

■ Specification

Item		Description
Power	Power supply	Power adapter
	Power voltage	DC48V~57V
	Consumption	<5W
Network connector	Network port	1~8 port:10/100Mbps PoE network port UPLINK port:10/100/1000Mbps network port SFP:1000Mbps optical fiber SFP module port
	Transmission distance	1~8 port:150m UPLINK port: 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
	PoE power consumption	af≤15.4W(every port), at≤30W(every port)
Network switch	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	1M
	MAC address list	8K
LED Status indicator	Power indicator	2 (both are red, one on the front board, the other one on the slope)
	Optical port LED indicator	1 SPF port indicator (green)
	Uplink network port LED indicator	1 (green on the RJ 45 socket)
	PoE network LED indicator	8 PoE status indicator (yellow on the RJ 45 socket) 8 network status indicator (green)
Button	PoE reset button	8,corresponding with 1~8 port, PoE reset after press the button
	Reset button	1, switch restart after press this button
Protection	Communication port Lightning protection	4KV per: IEC61000-4-5
	ESD	1a contact discharge 3 level 1b air discharge 3 level Per:IEC61000-4-2
Environmental	Working temperature	-40℃~75℃ (for the device)
	Storage temperature	-40℃~85℃
	Humidity (non-condesing)	0~95%
Mechanical	Dimension (L×W×H)	159mm×110mm×46.5mm
	Material	Aluminum
	Color	Black
	Weight	570g
Stability	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;

■ 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;

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.