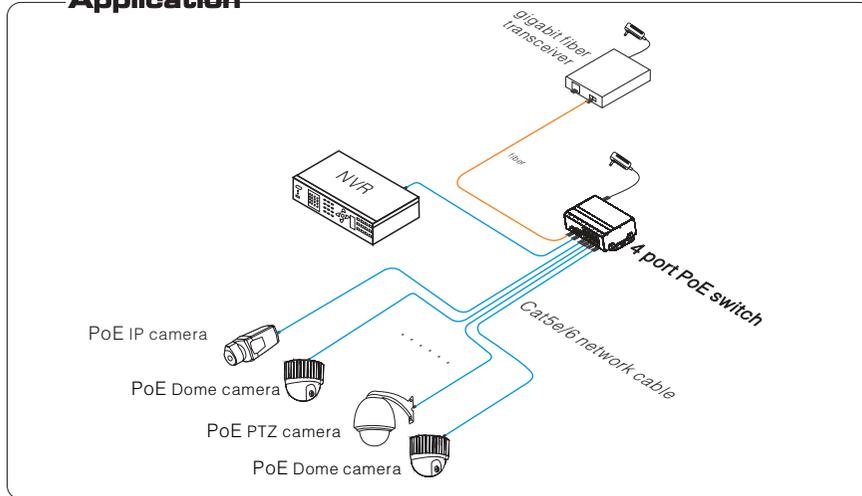


4 Ports PoE Ethernet Switch 4 Ports Ethernet Switch User Manual

It is an un-managed ethernet switch(including PoE and Non-POE version) which provides one uplink ethernet port and one uplink optical port (100Mbps),four 100Mbps PoE ethernet ports, supporting af/at power supply standard. This product is designed for high definition IP camera network access; The product supports one key CCTV model, can achieve VLAN, control the Net storm, protect the information security, prevent the viral transmission and Ethernet attack; it also integrates optical interface to achieve the perfect blend of fiber optical transceivers and network switches, to solve the problem of long-distance transmission. The product could be used in security network video surveillance, network project etc.

Application



Feature

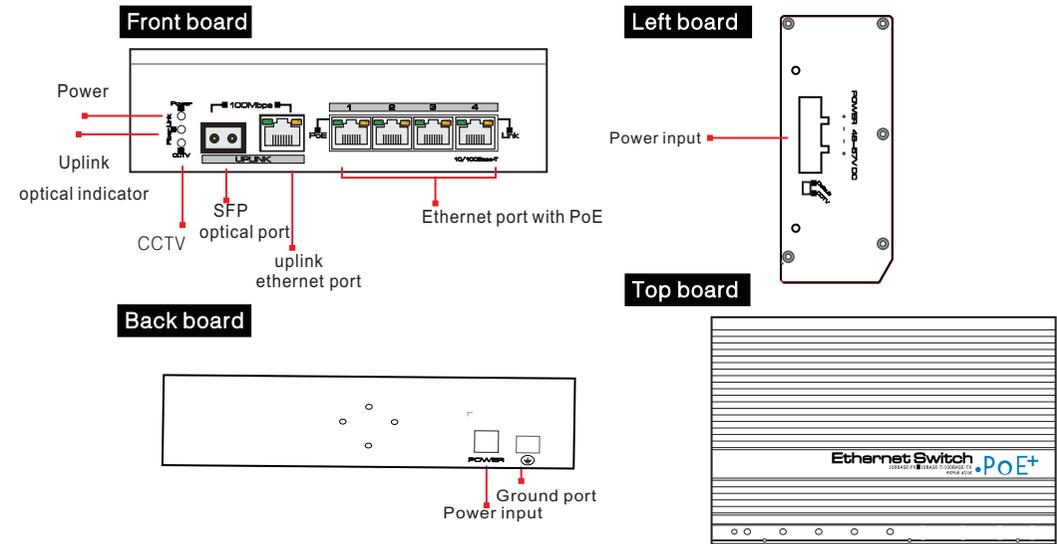
- Provide four 10/100Mbps PoE ethernet ports and only support power to IEEE802.3 af/at standard ethernet equipment. So there is no need to worry about damaging the non-PoE network equipment;
- PoE ethernet port supports IEEE802.3 af/at standard and provides up to 30W power and supplies high power for Infrared Camera;
- Provide two uplink ports, 100Mbps optical port and ethernet port. uplink optical port reserves SFP port for users to select SFP fiber modules of different performance to solve long distance transmission issue;
- Every PoE ethernet port have button restart function, which allow users to solve network camera crashes and other failures with no need to plug out the network cable. The restart button is set on the slant, so that users can operate it from multiple angles;
- Ethernet port can reach maximum transmission distance up to 150m, breaking the 100m limit;
- One key CCTV model; 1 ~ 4 downlink ports can only communicate with uplink ports; the furthest transmission distance could reach 250m
- Redundant power design, support Hot Backup Power;
- Quasi-industrial products, fan-free heat folds metal design;
- Excellent circuit isolation protection, Anti-thunder ability up to 2KV;
- Fast installation, easy operation, convenient for wall-hung, din rail and desktop installation.

Caution

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

Industrial ethernet switch

Board diagram



Caution

- 1) The equipment must connect anti-thunder ground, otherwise the protection level of the equipment will be greatly reduced please use 20th or over wire connect ground port to the ground,
- 2) Turn the dial switch for left, the equipment can enter surveillance module after providing equipment power.

Instruction:

- 1) The front board has 4 ethernet ports; RJ 45 left side yellow light indicating PoE status, green light indicating network status; there have 2 uplink port s, 1 SFP port (Reservation, according to the customer need to configure the optical module) and 1 ethernet port, The lower left side green light indicating optical working status; CCTV green light indicates surveillance mode.
- 2) Left and back board all have one DC48V ~ 57V or DC12V~ 24V power input;

Installation step

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

- 4 port switch 1PC
- Power adapter 1PC
- Hanger 2PCS
- Guide hangers 1PC
- 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 switch's 1~4 port;
- 3) Use another network cable or (optical fiber) to connect ethernet switch's UPLINK port with NVR or computer;
- 4) Connect switch with power adapter;
- 5) Check if the installation is correct and device is good, make sure all the connection is reliable and the system is powered on;
- 6) Make sure every network device has power supply and work normally.

Specification

Item		4 Ports PoE Ethernet Switch	4 ports Ethernet Switch
Power	Power supply	Power adapter	
	Voltage range	DC48V~57V	DC12V-24V
	Consumption	< 5W	
Ethernet port parameter	Network port	1~4 port: 10/100Mbps(Default); 10Mbps(CCTV) UPLINK port :10/100Mbps SFP: 100Mbps optical SFP module port	
	Transmission distance	Downlink Ethernet port:0~150m(Default); 0~250m(CCTV) SFP:depend on the optical module transmission performance	
	Transmission medium	Cat5e/6 standard network cable	
	PoE agreement	IEEE802.3af/at agreement	/
	PoE power supply	End-span	/
	PoE power	Every port PoE output≤30W default configuration 60W power, every port< 15W; Additional 120 W power is required when the output reaches 30W	/
Ethernet exchange specification	Network standard	IEEE802.3 10BASE-T,IEEE802.3u 100BASE-TX, IEEE802.3u 100BASE-FX,IEEE802.3 X	
	Exchange way	Store and forward	
	Packet data cache	512K	
	MAC address list	1K	
Status indicator	Power indicator	one red front board, one red oblique board	
	Optical port LED indicator	1 SFP port working status, green	
	Uplink ethernet port LED	1 Ethernet working status, RJ 45 port green light	
	PoE ethernet port LED	4 PoE status indicator, RJ 45 port yellow light; 4 network status indicator, green light	/
	CCTV LED Indicator	Green Light indicate CCTV mode	
Button	PoE reset button	Four button ,corresponding to 1~4 port, after pressing , PoE restart	/
	Reset button	one button ,after pressing , the machine restart	/
Protection level	Communication port lighting	3 level, standard: IEC61000-4-5	
	ESD	3 level, standard:IEC61000-4-2	
Operation environment	Working temperature	-40℃~75℃	
	Storage temperature	-40℃~85℃	
	Humidity (non-condensing)	0~95%	
Mechanical	Dimension (L×W×H)	159mm×110mm×46.5mm	
	Material	Aluminum	
	Color	Black	
	Weight	540g	533g

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 is in accordance with the EIA/TIA568A or 568B industry standards;
- The maximum consumption of every PoE port can not exceed 30W, please do not use the PoE device with consumption over 30W;
- Please replace a failure device with a normally working one to check if the device is broken;
- If the problem still exist, please contact the factory.

RJ 45 Making Method

Tools to make RJ45: wire crimper, network tester.

Wire sequence of RJ45 plug should conform with EIA/TIA568A or EIA/TIA568B standard.

- 1) Strip off the 2cm insulating layer to expose the 4 pairs UTP cable;
- 2) Separate the 4 pairs of UTP cable and straighten them;
- 3) Line up the 8 separated pieces of cables per EIA/TIA 568A or 568B;
- 4) Cut the cables to leave 1.5cm bare wire and make sure 8 thread ends are flat and neat ;
- 5) Insert 8 cables into RJ45 plugs, make sure each cable is inserted in each pin;
- 6)Then use wire crimper to crimp the RJ45;
- 7) Do the above 5 steps again to make the another end of the twisted pair and make sure consistent cable order between two ends ;
- 8) Test network cable with network tester.

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.