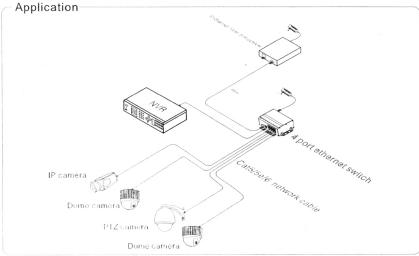
# 4 Ports Ethernet Switch

This product is un-managed ethernet switch which provides four 100Mbps ethernet ports one optical port and one ethernet port (100Mbps). It also supports IEEE802.3 /802.3u /802.3u /802.3ab /802.3z, 10/100/100Mbps, full/half duplex, MDI/MDI-X adaptive RJ 45 port, Anti-thunder capability reaches 2KV. The product could be used in security network video surveillance, network project etc.



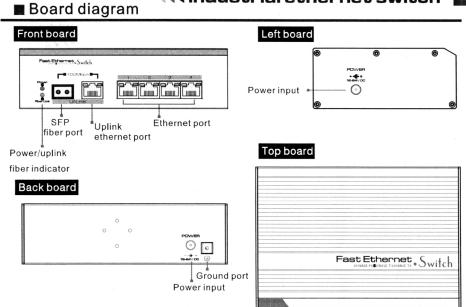
### Feature

- Provide four10/100Mbps ethernet ports and support IEEE802.3 10BASE-T. IEEE802.3u 100BASE-TX standard;
- 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:
- The uplink port maximum transmission distance is 150m, breaking the 100 m limits;
- Support IEEE802.3X full duplex flow control and port ( Auto MDI/MDIX) function;
- 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.
- 3) 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,

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### Instruction:

- 1) Front board has 4pcs ethernet ports , RJ 45 port green light indicating network status ; 2 uplink ports
- $1\,SFP\,port\,\,and\,1\,ethernet\,port\,, the\,low\,left\,side\,green\,LED\,indicates\,optical\,port\,working\,status,\,\,red$
- LED indicates power status, ethernet port RJ 45 green light indicates ethernet port network working status;
- 2) Left and back board all have one DC12V ~ 24V power input and one power adapter by default; Users need to buy another power adapter if redundant power is required..

# ■Installation step

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

<ul><li>4 port ethernet switch</li></ul>	1PC
<ul><li>Power adapter</li></ul>	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 8 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 the system is powered on;
- 6) Make sure every network device has power supply and work normally.

## industrial ethernet switch >>>

# Specification

	Item	Description	
Power	Power supply	Power adapter	
	Voltage range	DC 12V ~ 24V	
	Consumption	< 5W	
Network port parameter	Network port	1~4 port: 10/100Mbps ethernet port UPLINK port: 10/100Mbps ethernet port SFP: 100Mbps fiber SFP module port	
	Transmission distance	Ethernet port:0 ~ 150m SFP: depend on the optical module transmission performance	
	Transmission medium	Cat5/5e/6 standard network cable	
Network exchange specification	Network standard	IEEE802.3 10BASE-T,IEEE802.3 u 100BASE- TX,IEEE802.3 u 100BASE-FX,IEEE802.3 X	
	Exchange way	Store and forward	
	Packet data cache	512K	
	MAC address list	2K	
Status indicator	Power indicator	1 indicate power ( red )	
	Optical port LED indicator	1 SFP port working indicator ,green	
	Uplink network port LED	1 network working status indicator,RJ45 port green light	
	Network port LED indicator	4 network working status indicator,RJ45 port green light	
Protection level	Communication port lightning protection	3 level, standard: IEC61000-4-5	
	ESD	3 level, standard: IEC61000-4-2	
Operation environment	Working temperature	-40℃~75℃	
	Storage temperature	-40°C~85°C	
	Humidity (non-	0~95%	
	condesing)		
Mechanical	Dimension (L $\times$ W $\times$ H)	159mm×110mm×46.5mm	
	Material	Aluminum	
	Color	Black	
	Weight	533g	

Product are subject to change without prior notice

### **◄◀** industrial ethernet switch

### Trouble Shooting

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

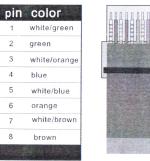
- Please confirm if the installation is correct:
- Please confirm if the RJ45 cable order is in accordance with the EIA/TIA568A or 568B industry
- SFP fiber communication requires double fiber need Cross-conneciton.
- Please replace a failure device with a normally working one to check if the device is broken;
- If the problem still exist, please contact the factory.

#### RJ 45 Making Method

ITools 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) Seperate 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 cables with network tester.









EIA/TIA 568B

- 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.