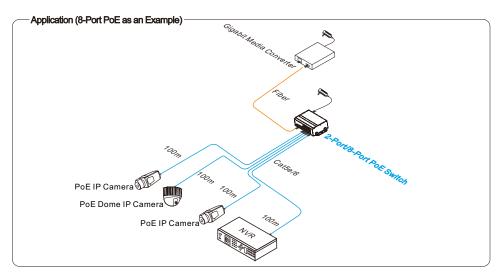
Industrial Ethernet Switch User Manual

13.238.101.1984 V 1.0

Full gigabit one-key ring industrial unmanaged switches provide 2/8*10/100/1000Base-T Ethernet port and 2*1000Base-X SFP slots. Support auto speed reduction on Ethernet ports, the transmission distance is up to 200 meters max. What's more, the series support one-key fast ring, one-key broadcast storm prevention (BSP), IEEE802.3af/at and PoE watchdog. With industrial components, fanless and low power consumption design, the series meet the requirement of industrial project, and are widely used in smart power grid, transportation, smart city, safe city, new energy, aerospace, smart manufacturing, military and other industrial fields.



Feature

- Provide 2/8*10/100/1000Base-T Ethernet port and 2*1000Base-X SFP slots.
- Support max 200 meters of transmission distance with auto speed reduction.
- Support one-key fast ring, with self-healing time in 20ms.
- Support one-key broadcast storm prevention (BSP), preventing crash of the switches.
- Support one channel relay alarm output, fanless, wave metal shell, low power consumption design.
- Support installation of DIN rail and wall mounted, adapting to a variety of environments.
- Support IEEE802.3af/at, max PoE power output for single port is up to 30W.
- Support wide voltage input range from DC 12V to DC 48V.
- Support PoE watchdog, auto reboot the connected failure PD devices.

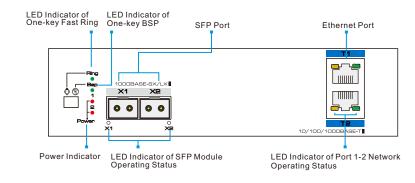
▲ Notice

- 1) Transmission distance is related to the connecting cable. We suggest to use standard Cat5e/6 network cable to get the max transmission distance.
- 2) SFP modules need to be purchased separately.
- 3) Device must be connected with lightning protection grounding; otherwise protection level will be reduced; please use above 20AWG wire to connect the grounding terminal.

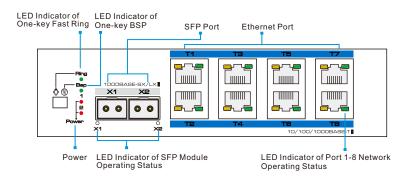
Board Diagram

Front Side

2-Port PoE Switch

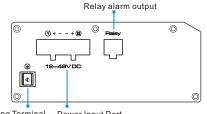


8-Port PoE Switch



Left Side

2-Port/8-Port PoE Switch



Installation Steps

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

Industrial PoE Switch	1 pc
Hanger	2 pcs
Rail Bracket	1 pc
User Manual	1 pc
 Mounting Kits 	1 pc

Please follow the installation steps below

1)Please turn off the signal source and the device's power, installation with power on may damage the device. 2)Use network cables to connect IP cameras with the product's RJ45 Ethernet ports.

3)Use another network cable or (optical fiber) to connect 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 power up the system. 6)Make sure every network device power supply works normally.

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.
- Each POE port could output max 30W power to POE device, please don't use POE device with power consumption over 30W.
- Please replace the failure device with a good one to check if this device is in normal operation or not.
- 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 conforms with EIA/TIA568A or 568B standards.

1) Shuck off about 2cm long of the insulating layer to expose the 4 pairs UTP cables;

2) Seperate the 4 pairs UTP cables and straighten them up;

3) Line up the 8 pieces of cables per EIA/TIA 568A or 568B standards;

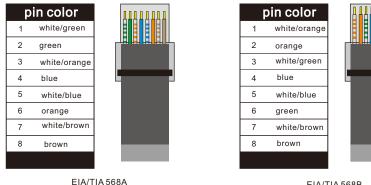
4) Brunt cut the cables to leave 1.5cm wire exposed and make sure the wire ends are leveled off;

5) Plug 8 cables into RJ45 plug, make sure each cable is in each pin;

6)Then use wire crimper to crimp it;

7) Repeat above 5 steps to make the another end;

8) Using network tester to test the cable .





Notice

Make sure if one end is EIA/TIA568A, the other end should also be EIA/TIA568A.

Make sure if one end is EIA/TIA568B, the other end should also be EIA/TIA568B.

Specification

ltem	2-Port PoE Switch	8-Port PoE Switch
Physical Port		
Downlink Ports	2*10/100/1000Base-T PoE	8*10/100/1000Base-T PoE
Uplink Ports	2*1000 Base-X SFP Slots	
Alarm Output	One channel relay alarm output, 1A@DC 9V, 2 cores, 5.08mm terminal	
DIP Switch 1. Enable / Disable fast ring & PoE watchdog, with self-healing time less than 20ms. 2. Enable / Disable broadcast storm prevention.		
Switching Performance		
Standards	IEEE 802.3 , IEEE 802.3u, IEEE 802.3ab, IEEE 802.3Z, IEEE 802.3X, IEEE 802.1D, IEEE 802.3af/at	
Switching Capacity	8Gbps	20Gbps
Packet Forwarding Rate	3.8Mpps	14.9Mpps
Packet Buffer	2Mbit	
MAC Table	16k	
Jumbo Frame	10k bytes	
LED Indicator	Port: 1*Link/Act (Green) & 1*PoE Status(Orange) 1*One-key Fast Ring (Green), 1*One-key BSP (Green), 2*PWR (Red)	
PoE		
PoE Line Pair	1/2(+) , 3/6(-)	
PoE Output Power	Max POE output for single port≤30W Whole machine output PoE power: 60W(12V), 60W(24V), 60W(48V).	Max POE output for single port≤30W Whole machine output PoE power: 80W(12V), 120W(24V), 240W(48V).
Power Supply		
Input Terminal	Ferminal 4 PIN / 5.08mm	
Input Voltage	DC 12~48V DIN-rail industrial power supply (Optional)	
Power Consumption	≤6W (Not inIcude PoE)	≤12W (Not inIcude PoE)
Environment		
Surge Immunity	6kV, Standard: IEC61000-4-5	
ESD Protection	6kV: Contact discharge, 8kV: Air discharge, Standard: IEC61000-4-2	
Operating Temperature	-40~75°C	
Storage Temperature	-40~85°C	
Operating Humidity	5%~95% (Non-condensation)	
Physical Parameter		
Material	Aluminium alloy, IP40	
Dimensions (W*D*H)	159mm*110mm*46.5mm	
Installation	DIN rail / Wall mounted	
Weight	823g±10g	942g±10g
Certifications	CE, FCC	

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