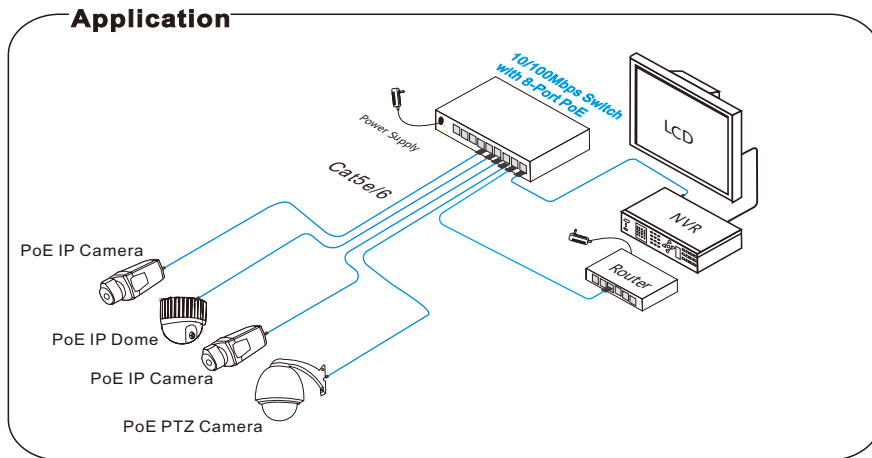


9-Port 10/100Mbps Switch with 8-Port PoE User Manual

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VerB2.0

This product is an unmanaged PoE switch, provides 8*10/100Base-TX PoE ports and 1*10/100Base-TX uplink port. The PoE output power of each port is 30W at maximum, and the total PoE power budget of switch can be up to 93W. Providing three operating modes(Default, VLAN, CCTV). The switch supports PoE watchdog under VLAN and CCTV mode. It improves the online rate of cameras.



Feature

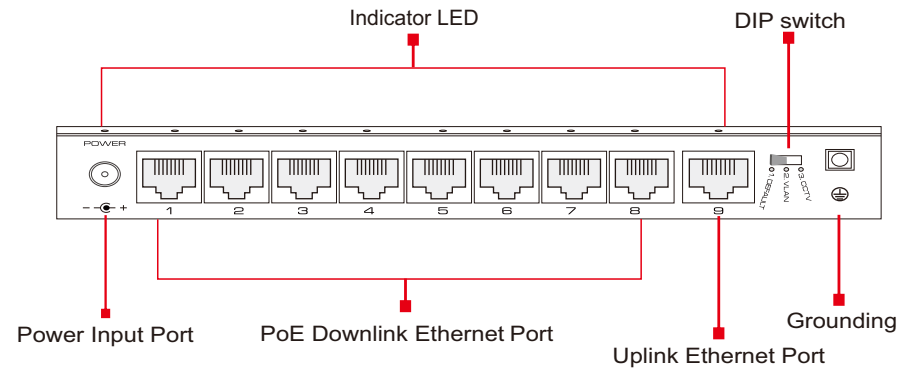
- 8*10/100Base-TX PoE ports and 1*10/100Base-TX Uplink port, Auto MDI/MDIX.
- Three operating modes:
 - Default: All ports can be communicated freely.
 - VLAN: Port 1-8 are isolated respectively, support PoE Watchdog, but can communicate with Port 9.
 - CCTV: The transmission distance can be extended to 250 meter, while link speed of downlink ports 1~8 will be limited to 10Mbps(Uplink ports keep 100Mbps). Support PoE watchdog.
- Input Voltage: DC52V 1.85A.
- Transmission distance: 100 meters (Default/VLAN) / 250 meters (CCTV).
- Complies with IEEE802.3, IEEE802.3u, IEEE802.3af, IEEE802.3at standard.
- 6KV surge protection, ESD protection.
- Easy to install. Plug and play, no need more configuration.

! Notice

It is recommended to use the standard Cat5e/6 network cable to reach the optimal transmission distance.

Board Diagram

Front



! Notice

It is recommended that the equipment should be connected to the protection ground for better protection performance, otherwise equipment protection will greatly reduced; Please use 20AWG or thicker wire to connect grounding terminal to the ground.

Installation Steps

Please check the following items before installation, if it is missing, please contact the dealer.

● PoE switch	1pc
● Power adapter	1pc
● User manual	1pc
● Mounting kits	1set

Please follow installation steps as below:

- 1) Please turn off the signal source and the device's power, installation with power on may damage the device.
- 2) Use 8pcs network cables to connect 8pcs IP cameras with the product's 1~8 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.

Specification

Model	Description
Downlink Ports	8*10/100Base-TX (PoE)
Uplink Ports	1* 10/100Base-TX RJ45
Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3x
Switching Capacity	1.8Gbps
Packet Forwarding Rate	1.30Mpps
Forwarding Modes	Store&Forward
Packet Buffer	768kbits
MAC Table	2k
Status Indicator	Power:1*Red LED RJ45:9*Green LED PoE:8*Yellow LED
PoE Standard	IEEE802.3af/at
PoE Power Supply Type	Mid-span/ End-span
PoE Pin Assignment	1/2(+), 3/6(-)
PoE Power Output	Max PoE power output for single port is 30W(DC52V) Total PoE power budget is 93W
Three Working Modes	1. Default: All ports can be communicated freely.
	2. VLAN: Port 1-8 are isolated respectively, but can communicate with port 9, support PoE watchdog.
	3. CCTV: The transmission distance can be extended to 250 meter, while link speed of downlink ports 1~8 will be limited to 10Mbps(Uplink ports keep 100Mbps). Support PoE watchdog.
Surge Immunity	Common mode 6KV, Execute standard: IEC61000-4-5
ESD Protection	Contact discharge 6K, Air discharge 8KV, Execute standard: IEC61000-4-2
Input Voltage	DC 52V 1.85A
Power Consumption	< 96W
Operating Temperature	-10°C~50°C
Storage Temperature	-40°C~85°C
Operating Humidity	5%~95%(Non-condensing)
Dimensions (W * D * H)	180mm*92mm*25mm
Material	Metal
Weight	500g

Products 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.
- Every PoE port can provide PoE equipment maximum power less than 30W, please do not connect the PoE equipment with power over 30W.
- Please replace a failure device with a normal 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.