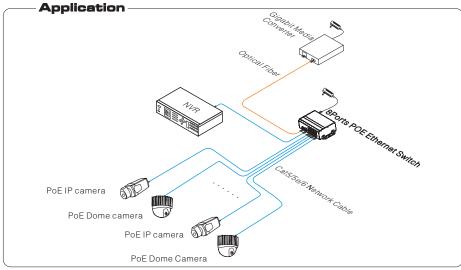
# 8 Ports PoE Ethernet Switch User Manual

VerB 1.0

8 ports PoE Ethernet Switch is an unmanaged Ethernet switch. This product provides 1 Gigabit uplink Ethernet port and 1 Gigabit uplink fiber port and 8\* 100Mbps PoE Ethernet ports, support IEEE802.3af/at power supply standard. The product is widely used in secrity surveillance and network project.



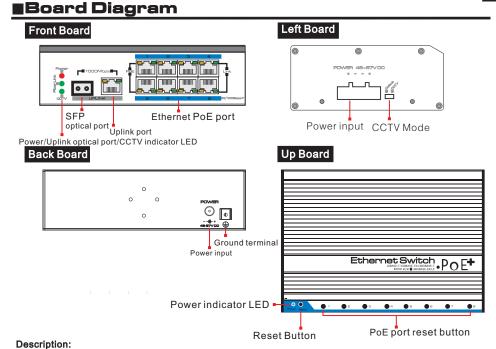
#### **■**Feature

- Provide 1\*1000Mbps uplink fiber port and 1\*1000Mbps Ethernet port, 8\*10/100Mbps downlink Ethernet ports. 1~8 ports of PoE Ethernet switch support IEEE802.3af/at standard, which could provide Max. 30W supply power for infrared camera with large consumption;
- Reset button of 8 PoE ports which can easily solve problems of IP camera crash, without plugging network cable, is very convenient for system maintenance;
- Under one Key CCTV model, the 1~8 downlink ports can only communicate with uplink ports, the speed of downlink port is limited in 10Mbps and the transmission distance is up to 250m;
- One Key CCTV mode is off by default, but can start while dialing the switch key on the front board to reset the product;
- Industrial product, fanless wavy metal shell design for good heat dissipation;
- Excellent isolated circuit protection, lighting protection up to 6KV;
- Fast installation, easily operation, convenient for wall, din rail and desktop installation.
- 1 M packet data cache to ensure large capacity data transfer smoothly;
- 8K MAC address, easy for network system expansion;
- Support IEEE802.3X full duplex data control; support port (Auto MDI/MDIX) function;
- Redundant power design, support power hot backup;
- PoE watchdog (Detect POE device when it is frozen, reboot automatically).

#### Caution

- Transmission distance is related to the connecting cable. We suggest to use standard Cat5e/6 network cable to get the best transmission result.
- 2) If use optical uplink port, customer needs to purchase additional SFP module.
- 3) The equipment must be connected to anti-thunder grounding ,otherwise the protection level will be greatly reduced; please use NO. 20th or above wire to connect grounding terminal to the earth.

# ■ Secure Switch



- Front board with PoE Ethernet port, the yellow light on the RJ 45 socket indicate PoE status, the green light indicate network status; the yellow light and green light on the uplink network RJ 45 socket indicate network working status; the LED on the left side of SFP optical port indicate power, CCTV and working status of optical port;
- 2) The left board and back board have a DC48V~57V power input port respectively; equipped with a 120W power adapter by default, the average PoE output of each port is 15W, output of single port is max. 30W.

#### Installation steps

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

POE Ethernet switch
 Power adapter
 MIT hangers
 Din rail hanger
 User manual
 1 pc
 1 pc

#### Please follow the following installation steps

- 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 has power supply and work normally.

## ■ Specification

Power Supply		Item	8 ports PoE Ethernet Switch
Power	Power	Power Supply	Power adapter
Consumption		,	·
Ethernet Port			
Ethernet Port   Parameter	Port		mode:10BASE-T; UPLINK Ethernet port:10/100/1000BASE-T;
PoE Protocol   IEEE802.3af/at protocol   PoE Power Supply   End-span   PoE Energy   Single port ≤ 3 0 W, Whole < 120W		Transmission Distance	CCTV mode: 0~250m Uplink port: 0~150m
PoE Power Supply   End-span		Transmission Medium	Cat5e/6 network cable
PoE Energy   Single port ≤ 3 0 W, Whole < 120W		PoE Protocol	IEEE802.3af/at protocol
Ethernet Standard  Ethernet Exchange Specification Packet Forwarding Rate  Indicator Status  Indicator Status  Power Indicator Light  Optical Port LED indicator  Downlink Ethernet Port Indicator  Indicator Pose Reset Button  Pose Reset Button  Pose Reset Button  Port Lighting Protection  ESD  Operation Environment  Mechanical  Ethernet Standard  IEEE802.3 10BASE—T; IEEE802.3 x 1000—SX/LX; IEEE802.3 x  IEEE802.3 2 1000—SX/LX; IEEE802.3 x  IMEE802.3 2 1000—SX/LX; IEE6100 SX/LX; IEE802.3 x  IMECKETOR  IME		PoE Power Supply	End-span
Ethernet Exchange Specification    Switch Capacity		PoE Energy	Single port≤3 0 W, Whole<120W
Switch Capacity   S.6Gbps	Exchange	Ethernet Standard	IEEE802.3ab 1000BASE-TX;
Packet Forwarding Rate   Packet Forwarding Rate   Packet Buffer   1M		Switch Capacity	5.6Gbps
MAC Address   8K		Packet Forwarding Rate	4.12Mpps
Power Indicator Light   Front board: 1 pc red Light		Packet Buffer	1M
Power Indicator Light   Side board: 1 pc red Light		MAC Address	8K
Indicator Status   Optical Port LED indicator   1pc SFP port working indicator light: green   Uplink Ethernet Port Indicator   1 pc network working status: green light on RJ 45 port   1 ~ 8 ports : green light indicates network status, yellow light indicates PoE status   PoE Reset Button   Total 8 pcs, corresponding to 1 ~ 8 ports, PoE Function reset   Reset   1 pc, machine reset   1 pc, machine reset   Port Lighting Protection   6KV , Per: IEC61000-4-5   ESD   6KV/8KV , Per: IEC61000-4-2   Working Temperature   -40°C~75°C   Storage Temperature   -40°C~85°C   Storage Temperature   Dimension(L×W×H)   159mm×110mm×46.5mm   Material   Aluminum   Aluminum   Color   Black   Black   Storage Temperature   Black   Black   Black   Storage Temperature   Black   Black   Black   Black   Storage Temperature   Black		Power Indicator Light	
Status  Uplink Ethernet Port Indicator Downlink Ethernet Port Indicator 1 pc network working status: green light on RJ 45 port  Poer Reset Button Protection Protection Esc Working Temperature Coperation Environment  Mechanical  Uplink Ethernet Port Indicator 1 pc network working status: green light on RJ 45 port 1 ~ 8 ports: green light indicates network status, yellow light indicates PoE status 1 ~ 8 ports: green light indicates network status, yellow light indicates PoE status 1 pc, machine reset 1 pc, machine reset 1 pc, machine reset 6 KV , Per: IEC61000-4-5 ESD 6 KV/8 KV , Per: IEC61000-4-2  Working Temperature -40°C~75°C Storage Temperature -40°C~85°C  Dimension(L×W×H) 159mm×110mm×46.5mm  Material Color Black		CCTV Indicator Light	1 pc(green), the green light on Indicates CCTV Mode start
Uplink Ethernet Port Indicator		Optical Port LED indicator	1pc SFP port working indicator light: green
Indicator			1 pc network working status: green light on RJ 45 port
Reset         Reset         1 pc, machine reset           Protection         6KV, Per: IEC61000-4-5           ESD         6KV/8KV, Per: IEC61000-4-2           Working Temperature         -40℃~75℃           Storage Temperature         -40℃~85℃           Humidity (Non-condensing)         0~95%           Dimension(L×W×H)         159mm×110mm×46.5mm           Material         Aluminum           Color         Black			
Reset         1 pc, machine reset           Protection         6KV, Per: IEC61000-4-5           ESD         6KV/8KV, Per: IEC61000-4-2           Working Temperature         -40°C~75°C           Storage Temperature         -40°C~85°C           Humidity (Non-condensing)         0~95%           Dimension(L×W×H)         159mm×110mm×46.5mm           Material         Aluminum           Color         Black	Reset	PoE Reset Button	Total 8 pcs, corresponding to 1 ~ 8 ports, PoE Function reset
Protection		Reset	1 pc, machine reset
ESD   6KV/8KV , Per: IEC61000-4-2	Protection	Port Lighting Protection	6KV, Per: IEC61000-4-5
Operation Environment         Storage Temperature         -40°C~85°C           Humidity (Non-condensing)         0~95%           Dimension(L×W×H)         159mm×110mm×46.5mm           Material         Aluminum           Color         Black		ESD	6KV/ 8KV , Per: IEC61000-4-2
Humidity		Working Temperature	-40℃~75℃
Non-condensing		Storage Temperature	-40°C~85°C
Dimension(L×W×H)   159mm×110mm×46.5mm		Hullifulty	0~95%
Mechanical Color Black	Mechanical	$Dimension(L \times W \times H)$	159mm×110mm×46.5mm
Color Black		Material	Aluminum
Weight 575g		Color	Black
		Weight	575g

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:
- The maximum consumption of each PoE port can supply to the PoE device can't over 30 W, please do
  not use the PoE device with consumption over 30W;
- Please replace a failure device with a properly functioning one to check if the device is broken;
- If the problem still exists, 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) 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;

Pin

2

3

4

6

7

8

color

white/orange

white/blue

white/brown

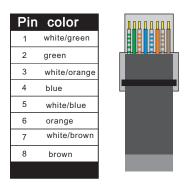
orange white/green

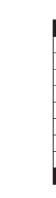
blue

green

brown

8) Using network tester to test the cable.







EIA/TIA 568A

EIA/TIA 568B



- Make sure both ends use EIA/TIA568A connection method when using RJ45 port.
- Make sure both ends use EIA/TIA568B connection method when using RJ45 port.