

8 Gigabit PoE Ethernet Switch

IP8GESP/E



User Manual

Please read these instructions carefully before operating the unit and keep for further reference.

8 Ports Full Gigabit PoE Ethernet Switch is an unmanaged Ethernet switch designed for Gigabit Ethernet access and PoE applications. It provides eight Gigabit downlink ports, one Gigabit uplink Ethernet port, and one Gigabit optical SFP module slot. The eight downlink ports support 802.3af/at standard and feature Max. 30W PoE power output of single port, Max. 120W of whole machine. The device supports one-key VLAN which isolates the communication between downlink and uplink ports. It can be widely used in security surveillance, hotels, schools, SMB engineer and other occasions.

1. Key Features

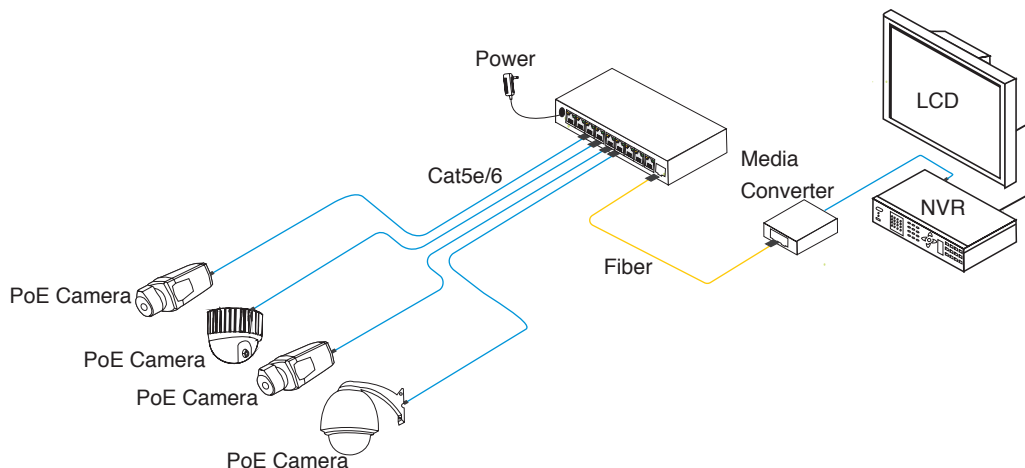
- Provide 8x 10/100/1000Base-T Ethernet Ports (PoE), 1x 10/100/1000BASE-T Ethernet Ports and 1x Gigabit SFP Ports
- Compliance with standards: IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3X, IEEE802.3af/at
- PoE Power Supply: With 8x Gigabit PoE RJ45 Ports, each Port supports max. 30W PoE output, whole machine reaches 120W PoE power output
- One-key CCTV: Quickly achieve isolation among downlink ports via Mode switch, effectively restrain network storm, improve network feature
- Supports 6KV Surge immunity, EFT testing standard
- Supports -10°C~45°C wide temperature
- Plug & Play, convenient to use, supports desktop, Wall-Mounted installations

2. Technical Specification

Model Number	IP8GESPE
Downlink Ports	8x 10/100/1000Base-T Ethernet Ports (PoE)
Uplink Ports	1x 10/100/1000Base-T Ethernet Ports & 1x 1000Base-X SFP Port
Network Standard	Support IEEE 802.3/802.3u/IEEE802.3ab/IEEE802.3z/IEEE802.3x
Switch Capacity	20Gbps
Packet Forwarding Rate	14Mpps
Exchange Type	Storage & Forwarding
Buffer	1M
MAC Address List	4K
PoE Standard	802.3af/at (PSE)
PoE Mode	End-span
PoE Power Supply	1/2(+), 3/6(-)
PoE Output	Single PoE Output ≤30W(54V DC), Whole machine PoE output ≤120W
Surge Immunity	6KV
ESD Protection	Contact Discharge 6K, Air Discharge 8KV, Per: IEC61000-4-2
Voltage Input	DC 48V~57V
Power Consumption	5W
Operation Temperature	-10°C~+45°C
Storage Temperature	-40°C~+85°C
Operation Humidity	5%-95%(Non-Condensing)
Material	Metal
Dimensions	200 (L) x 101.8 (W) x 27 (H) mm
Weight	500g

*Design and Specifications are subject to change without notice.

3. Application

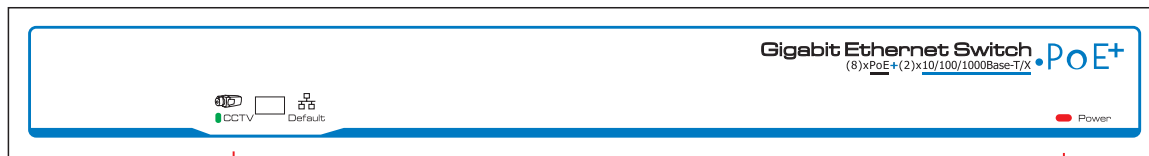


NOTICE

1. The Transmission distance depends on the signal source and cable quality. Standard Cat5e/6 Ethernet cable is strongly suggested for reaching the maximum transmission distance.

4. Board Diagram

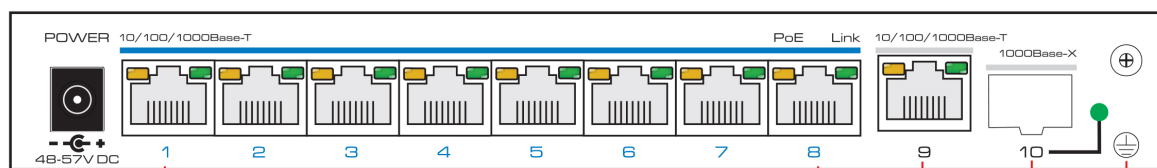
Front



CCTV Mode Toggle Switch

Power LED

Back



Power Input Port

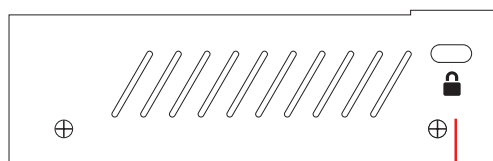
PoE Downlink Ethernet Ports

Uplink Ethernet Port

Uplink Optical Port

Grounding

Side



Kensington Security Slot

NOTICE

1. Device must be connected with lightning protection grounding otherwise protection level will be greatly reduced. Please use above No.20 wire to connect to the grounding terminal.
2. The device requires powercycling after the mode switch has been changed.

5. Installation Steps

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

- 1x Ethernet Switch
- 1x Power Adapter
- 1x AC Power Cable
- 1x Accessory (Mounting Bracket & Rubber Feet)
- 1x User Manual

Please follow installation steps as below:

1. Turn off the power of all the related devices before the installation otherwise the device may get damaged.
2. Connect PoE IP Cameras and 1~8 Downlink Ports with Ethernet cable.
3. Connect Uplink Port with Storage device, like NVR or PC, with Ethernet cable.
4. Connect Power adapter.
5. Check if the installation is correct, equipment is in good condition, the connection is stable, then power on the system.
6. Ensure the Ethernet equipment with Power on can work properly.

6. Trouble Shooting

If any trouble with installation, please follow the following steps:

- Make sure you have followed the instruction to install the device.
- Confirm if the RJ45 cable order is in accordance with the EIA/TIA568A or 568B industry standards
- The power supply of each PoE port is no more than 30W. Please do not connect the PoE device which exceeds the maximum PoE power supply.
- Replace a failure device with a proper one to check if the device is broken.
- Please contact your vendor if trouble still exists.

7. RJ45 Connections

Tools to make RJ45:

- Wire Crimper
- Network Tester

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

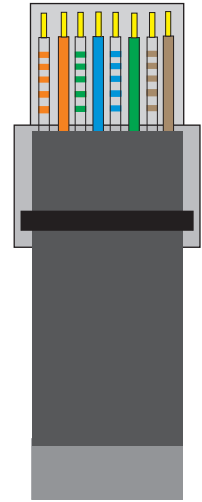
1. Strip off the 2cm insulating layer to expose the 4 pairs UTP cable.
2. Separate the 4 pairs of UTP cable and straighten them.
3. Line up the 8 separated pieces of cables per EIA/TIA 568A or 568B.
4. Cut the cables to leave 1.5cm bare wire and make sure 8 thread ends are flat and neat.
5. Insert 8 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. Using network tester to test the cable.

Pin Colour	
1	white/green
2	green
3	white/orange
4	blue
5	white/blue
6	orange
7	white/brown
8	brown



EIA/TIA 568A

Pin Colour	
1	white/orange
2	orange
3	white/green
4	blue
5	white/blue
6	green
7	white/brown
8	brown



EIA/TIA 568B

NOTICE

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

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