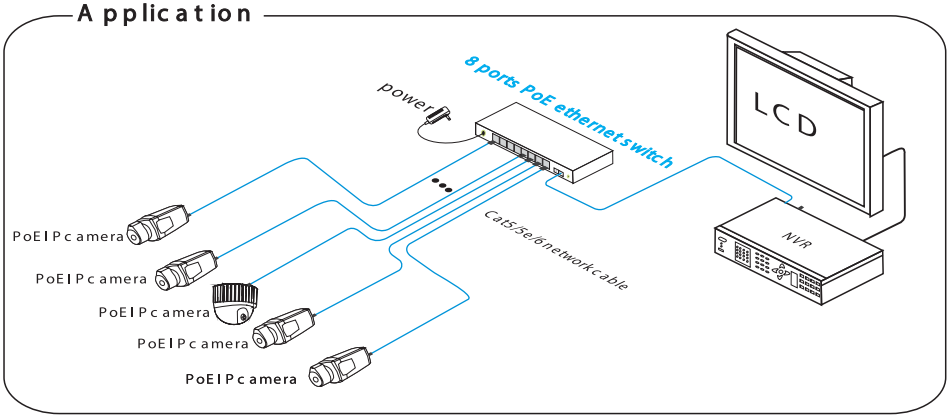
CYGNUS electronics

DATASHEET

CY-S1008-120-V1

8 ports PoE Ethernet Switch is a security surveillance Ethernet Switch which aims at Ethernet high definition surveillance and Ethernet project security system. The product fully combines the characteristics of security surveillance, provides fast packet forwarding ability and abundant backplane bandwidth, which ensures clear image and fluent transmission. ESD and surge protection circuit can improve product stability. The product supports one key CCTV model, can achieve VLAN, control the Net storm, protect the information security, prevent the viral transmission and Ethernet attack, fully satisfy the Ethernet video security surveillance system and Ethernet project needs.

Application



Feature

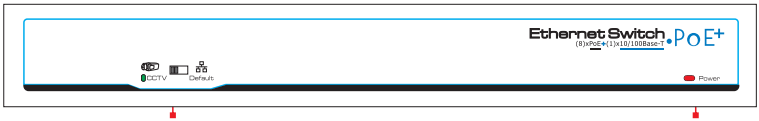
- Major ports: 1 pcs 100Mbps uplink fiber port, 8 pcs 100Mbps downlink Ethernet port, every port supports MDI/MDIX;
- Special function: One key CCTV mode; 1～8 downlink ports can only communicate with uplink ports;
- Power input: DC48V～57V;
- Transmission Distance: 0～100m; the furthest transmission distance could reach 250m in CCTV model; Uplink port can reach 100m;
- Standard: Meet IEEE802.3、IEEE802.3u、IEEE802.3af/at standards, PoE use End-Span, the spare cable can be of other use;
- Protection: Excellent anti-thunder, anti-static and anti-interference ability;
- Appearance: Delicate design and easy installation, configure the anti-theft lock hole, guard against theft;
- Operation: Plug and Play, No Setting required.

Notice

The transmission distance is related to the connected cable. We suggest standard Cat5e/6 network cable, so the transmission distance can up to further distance!

Board Diagram

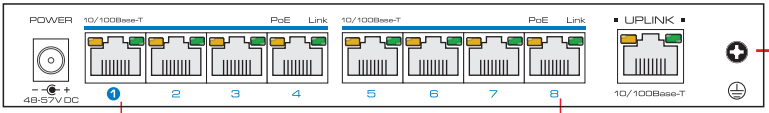
Front board



CCTV mode

Power indicated light

Back board



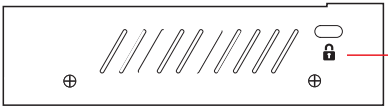
power input port

PoE down link port

uplink Ethernet port

ground port

Side board



Kensington lock

Notice

1) Device must be connected with lightning protection grounding; otherwise protection level will reduce; please use above No.20 wire to connect the grounding terminal.
2) Turn the dial switch for left, the equipment can enter surveillance module after providing equipment power.

Installation step

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

- 8 port PoE Ethernet Switch 1 pc
- Power adaptor 1 pc
- AC power cable 1 pc
- Accessory 1 pc
- User manual 1 pc

Please follow below the installation steps

1) Please turn off the signal power and display device power before installation, installation with power will damage the transmission equipment;
2) Use network cable connect PoE IP camera and 1～8 downlink ports of product respectively;
3) Use an etwork cable connect equipment uplink port and NVR or computer;
4) Connect power adapter;
5) Check if the installation is correct, equipment is in good condition, the connection is stable, then provide power for system;
6) Ensure the Ethernet equipment with power and work properly.

Specification

Item		Description			
Power	Power Supply	Power Adaptor			
	Voltage Range	DC48V~54V			
	Consumption	<5W			
Ethernet	Speed	1～8 ports:Default:10/100Mbps; CCTV:10Mbps; UPLINK:100Mbps			
	Transmission Distance	1～8 ports:Default:0～100m; CCTV:0~250m; Uplink:0～100m			
Network Switch	Ethenet Standard	IEEE 802.3/802.3u/802.3af/at			
	Exchange Capacity	1.8Gbps			
	Packet Forwarding Rate	1.34Mpps			
	Packet Buffer	768K			
	MAC	2K			
Status Indicator	Power Light	1pc（Red）			
	Ethernet Port Light	2pcs(Yellow&Green) on RJ45,yellow indicates PoE, green indicates Link/Act			
	Surveillance Module Light	1pcs(Green), green indicates CCTV			
Protection Level	Pluse Group	Level 3 Standard: IEC61000-4-4			
	ESD	1a Contact Discharge Level 3 1b Air Discharge Level 3 Standard: IEC61000-4-2			
	Anti-thunder Level	6KV Standard: IEC61000-4-5			
Working Environment	Working Temperature	-10℃ ~55℃			
	Storage Temperature	-40℃ ~85℃			
	Humidity(Non-condesing)	0~95%			
Mechanical	Dimension(L*W*H)	200mm× 101.8mm× 27mm			
	Out Shell	Galvanized Sheet			
	Color	Black			
	Weight	500g			
Power/Distance 54V	Distance	100m	150m	200m	250m
	Power	26W	24W	23W	21W

Specification change will not be noticed

Troubleshoot

Please follow this step if the equipment have trouble.

- Make sure the equipment is installed according to the manufactures installation guide.
- Confirm RJ45 cable order meet EIA/TIA568A or 568B standard.
- Every PoE port can provide PoE equipment maximum power less than 30W, please do not connect the PoE equipment with power over 30W.
- Replace the equipment that can not work with a proper functioning 8 port PoE Ethernet switch to check if the equipment is damaged.
- Please contact your vendor if troubles still exists.

Plug Producing Method

Instruments to be used: wire crimper, network tester. Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

1) Please remove 2 cm long the insulating layer, and bare 4 pairs UTP cable;
2) Separate the 4 pairs UTP cable and straighten them;
3) Line up the 8 pieces of cables per EIA/TIA 568A or 568B;
4) Cut off the cables to leave 1.5cm bare wire;
5) Plug 8 cables into RJ45 plug, makes sure each cable is in each pin;
6) Use the wire crimper to crimp it;
7) Repeat above 5 steps to make the another end;
8) Using network tester to test the cable if it works.

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 RJ45 makes sure if one end is EIA/TIA568A, the other end should also be EIA/TIA568A.
When choose RJ45 makes sure if one end is EIA/TIA568B, the other end should also be EIA/TIA568B.

CYGNUS
electronics