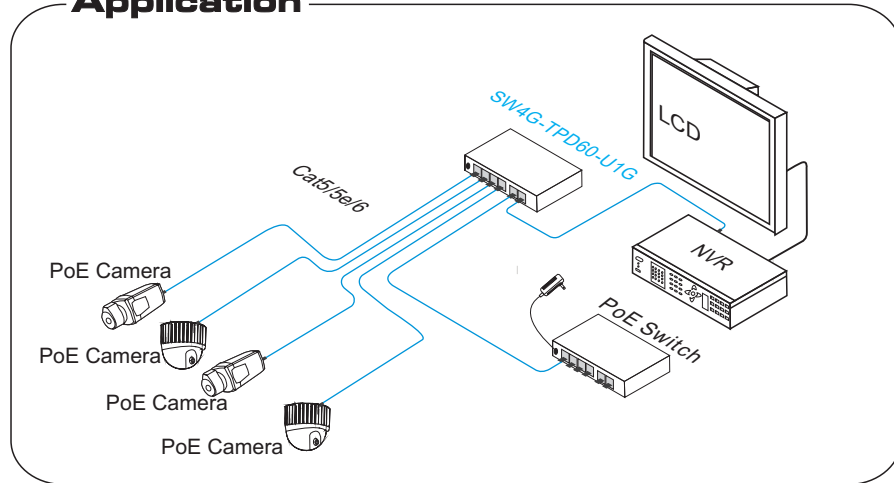


4 Ports Full Gigabit PoE Switch(PD) User Manual

VerB 1.0

The 4 Ports Full Gigabit PoE Switch is specially designed for the application of high definition network security surveillance system. The PoE switch provides 4 Gigabit downlink PoE ports support 802.3at and dual Gigabit uplink ports. The fifth port support Gigabit PD function and the total PoE power output is up to 60 watts. It's widely used in surveillance monitor and Ethernet network solution.

Application



Features

- Main Ports: 4x downlink gigabit PoE Ethernet ports, 2x uplink gigabit Ethernet ports (Especially the fifth port is with PD function, able to PoE power supply for 4x downlink ports);
- Unique Feature: one-key CCTV mode, which can restrain network storm, realize VLAN function and 1~4 downlink ports only able to communicate with uplink ports;
- Power Input: DC48V~57V or PoE;
- Transmission Distance: 0~100m;
- Standard: IEEE802.3, IEEE802.3u, IEEE 802.3ab, IEEE802.3af, IEEE802.3at, PoE adopts End-span;
- Protection: Superior lightning protection(6KV), ESD protection and anti-interference ability;
- Structure: stable and delicate, easy to install;
- Operation: plug and play, no any settings needed.

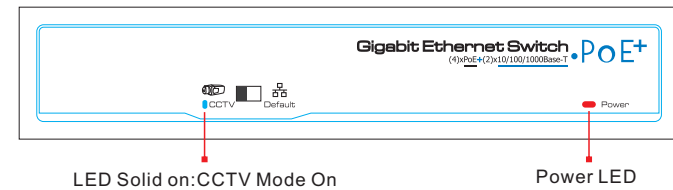
Notice

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!

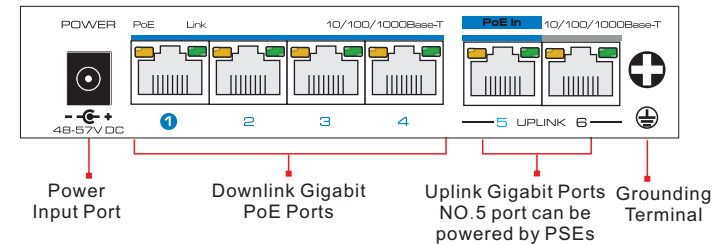
4 Ports Full Gigabit PoE Switch (PD)

Board Diagram

Front board



Back Board



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 the grounding terminal;
- 2) The device requires rebooting after the Mode Switch has been utilized.

Installation steps

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

- Ethernet Switch 1pc
- Accessory 1pc
- User Manual 1pc

Please follow installation steps as below:

- 1) Turn off the power of all the related devices before the installation; otherwise the device would be damaged;
- 2) Connect PoE IP cameras and 1~4 downlink ports with Ethernet cable;
- 3) Connect UPLINK port with Storage device, like NVR or PC, with Ethernet cable;
- 4) Connect power adapter or connect NO.5 port with other PoE Switch;
- 5) Double check the installation and connection of equipments are correct and the equipments are working properly, then power on system;
- 6) Make sure the devices are powered and work properly.

■ Specification

Item		PX-SW4G-TPD60-U1G
Power Supply	Power Supply	Power Adaptor or PoE
	Voltage Range	DC48V~57V
	Power Consumption	60W
Connector Parameters	Ethernet Ports	1~4 Downlink Ports:10/100/1000Mbps PoE Ethernet Ports;
	The fifth Ports with PD function	Only Support "Maxim" PSE Chipset, 60W max
	Transmission Distance	0 ~ 100m
	PoE Standard	IEEE802.3 af, IEEE802.3 at, End-span
	PoE Power Supply	Each Port ≤30W, Total <60W
Network Switching	Network Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
	Packet Forwarding Rate rate	8.93Mpps
	Switching Capacity	12G
	Packet Data Cache	1Mb
	MAC Table	8K
One-key CCTV Mode	Mode Function	a. All Downlink Ports Can Only Communicate with Uplink Ports, Can't communicate each other; b. Restrain Network Storm under 2M.
Indicator Status	Power Input	1x Red Light
	One-key CCTV	1x Green Light, Solid on after CCTV Mode on
	Downlink Ports	Link: Green LED(on RJ45) PoE: Yellow LED(on RJ45)
	Uplink Ports	Link:Green LED(on RJ45) Acting:Yellow LED(on RJ45); (and 5 Port: Link:Green LED, PoE: Yellow LED)
Protection Level	Lightning Protection	6KV, Per: IEC61000-4-5
	ESD Protection	Level 3, 1a Contact Discharge Level 3, 1b Air Discharge Per: IEC61000-4-2
Operation Environment	Operation Temperature	-10°C~+45°C
	Storage Temperature	-40°C~+85°C
	Humidity(Non-condensing)	0~95%
Mechanics	Dimension(LxWxH)	135 mm×86 mm×27mm
	Material	Metal
	Color	Black
	Weight	343g

Product specifications 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 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;
- 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) 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 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

- 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.