

Model: LTPOE-SW802EG(120W)

Features

8-Port 10/100/1000Mbps IEEE 802.3af/at PoE Switch (End-Span PSE)

- •Comply with IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3az, IEEE802.3af/at standards
- •Support IEEE802.3x full-duplex flow control; support Auto MDI/MDIX
- •8-Port support 48V-56VDC power to PoE powered devices
- •Provide 15.4W or 30W power to powered devices
- •120-watts PoE budget
- •External 53VDC/2.5A power adapter included
- •Extra 2-Port 10/100/1000Mbps UPLINK RJ-45
- •PoE data & power transmission distance up to 100meters
- •Port based VLAN for Enhanced Security
- •Backplane Bandwidth: 20.0Gbps
- •Restart function helps master IC reset wholly.
- •Excellent anti-thunder, anti-static and anti-interference ability
- •Surge Protection: 6KV
- •Easy and convenient to use, plug & play, no need to configure
- •Galvanized housing for stable and durable working life



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Overview

The LTPOE-SW802EG provides 8-port 10/100/1000Mbps IEEE 802.3af/at Power over Ethernet with a total of 120 watts of PoE budget, which is an ideal solution to fulfill the demand of sufficient PoE power for network applications. It is able to drive 8 IEEE 802.3af/at compliant powered devices.

The LTPOE-SW802EG is an ideal solution for securing IP surveillance infrastructure. It provides both 802.3af/at PoE functions along with 8 x 10/100/1000Base-TX ports featuring 15.4-watt 802.3af/30-watt 802.3at PoE in RJ-45 interfaces and extra 2 x 10/100/1000Mbps UPLINK RJ-45 port to keep a cascade connection with another switch or NVR. For instance, one LTPOE-SW802EG can be combined with one 8-Channel NVR and eight PoE IP cameras as a kit for the administrators to centrally and efficiently manage the surveillance system in the local LAN and the remote site via Internet.

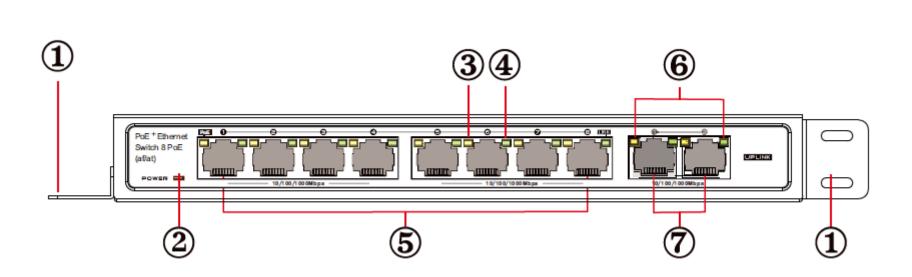
The LTPOE-SW802EG RJ-45 interfaces support 10/100/1000Mbps Auto-Negotiation at downlink port from 1 to 8 and 10/100/1000Mbps uplink port from 1 to 2 for optimal speed detection through RJ-45 Category 6, 5e or 5 cables. It also supports standard Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables.

The LTPOE-SW802EG supports port-based VLAN function, which effectively prevent the whole system from internet broadcast storm to make the data transfer much safer.

With data and power over Ethernet from one unit, the LTPOE-SW802EG reduces cabling requirements and eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. A wire that carries both data and power can lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords. Providing 8 PoE interfaces, the LTPOE-SW802EG is ideal for small businesses and work-groups requiring deploying the PoE for the wireless access points, IP-based surveillance IP phones in any places easily, efficiently and cost-effectively.



Front & Rear Panel



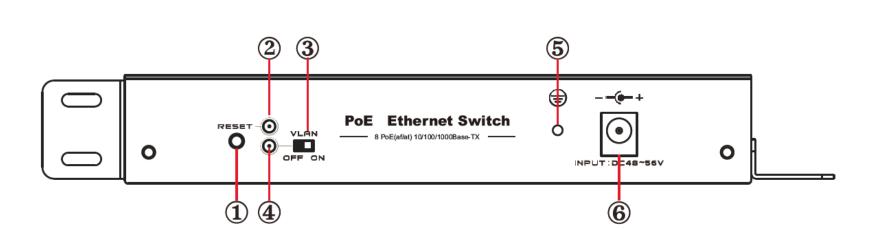
Front Panel

① Rack-mounting ears: Cabinets for product installation or Wall installation

- 2 Power Indicator: **Red** Light on: with power
- Light off : no power
- ③ PoE Indicator: Yellow Light on when device is powered Light off: when device is not detected or not powered
- ④ Link/ Act Indicator: Green LED on: link up off: link down blinks: data transfer
- ⑤ Downlink Port: Transfer data from other IP devices to the switch
- 6 Uplink Indicator: Green LED on: link up off: link down blinks: data transfer Yellow LED on: link speed is 1000Mbps off: link speed is 10/100Mbps
- ⑦ Uplink Port: Transfer data from PoE ports to other devices(NVR/Switch/ADSL)



Rear Panel



Rear Panel

1 Reset Button: Press the reset button to turn on indicator and the device restarts.

- ② Reset Button Indicator: Green
- ③ VLAN Button: Turn on VLAN button: indicator on and VLAN function starts Turn off VLAN button: indicator off and VLAN function stops
- ④ VLAN Indicator: Green
- (5) Ground Connection
- ⑥ Input: DC 48~56V



VLAN Introduction

At present, applications of Ethernet switch is very wide. To satisfy the needs of various customers, it is urgent for network services to solve the problems of broadcast domains, bandwidth and security, so a new kind of technology of VLAN emerged.

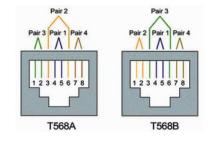
Each DOWNLINK RJ-45 port and UPLINK RJ-45 port form a separate workstations respectively. In the same VLAN workstation, regardless of which switch they are actually connected to, the communication between them is as if they were on a separate switch. Broadcasts in the same VLAN can only be heard by members of the VLAN, but not in other VLANs, which can control the generation of unwanted broadcast storms. At the same time, if there is no routing, different VLANs cannot communicate with each other, which increases the security of different departments in the enterprise network.

When the VLAN mode is enabled, the data cannot be forwarded among DOWNLINK RJ-45 ports, but DOWNLINK ports and UPLINK RJ-45 port can communicate with each other.

| | | _ |
|---|---|---|
| | | 1 |
| j | Note: | į |
| ļ | After you turn on VLAN button, please press reset button or reboot power the device, then VLAN mode is enabled. | |
| | | ł |
| į | | 4 |



RJ 45 Define



| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------|-----------------|--------|-----------------|------|---------------|--------|----------------|-------|
| T568A | White Green | Green | White Orange | Blue | White Blue | Orange | White Brown | Brown |
| T568B | White Orange | Orange | White Green | Blue | White Blue | Green | White Brown | Brown |

How to make a network cable

To create a network cable, you will first need the equipment listed below.

- 1. Cat5e, Cat6, or Cat7 cable
- 2. RJ-45 connectors
- 3. Crimping tool
- 4. Wire stripper or Knife

The wire sequence of RJ45 connector must comply with international standard of EIA/TIA 568A or EIA/TIA 568B.

1) We recommend stripping at least a half of an inch off of the cable to expose the inner wires.

2) Separate the wires within the cable after the network cable jacket has been removed so that they can be put into the RJ-45 connector.

3) The CAT5 twisted-pair cable consists of four twisted wires, each color coded; 8 wires must be correctly lined as the standards of EIA/TIA 568A or EIA/TIA 568B.

4) Cut thread residue and leave 1.5cm wire exposed outside the insulating layer and ensure 8 wires are straighten and neat.

5) Place the cable into the RJ-45 connector and then use the crimping tool to attach the connector.

6) Repeat above steps for the other end of the cable; the wire sequence of both ends of the cable is suggested to be identical.

7) Make sure to test the cables before installing them once both ends of the cable have been completed.



Quick Setup Guide

Package Contents

1) LTPOE-SW802EG: 1pc2) 53VDC/2.5A Power adapter: 1pc3) Screw: 5pcs4) Rubber feet: 4pcs5) Mounting-ears: 2pcs6) Manual: 1pc

Step1: Begin with all input/output devices turned off with power cables removed.

Step2: Connect RJ-45 port of PoE cameras with Downlink port of PoE switches in standard Cat 5e/6 cables.

Step3: Connect Uplink port of PoE switches with RJ-45 port of NVR or compute or other devices in standard Cat 5e/6 cables.

Step 4: Connect 53VDC/2.5A power adaptor with PoE switches.

Step 5: Make sure above connection is properly finished, then turn on power.



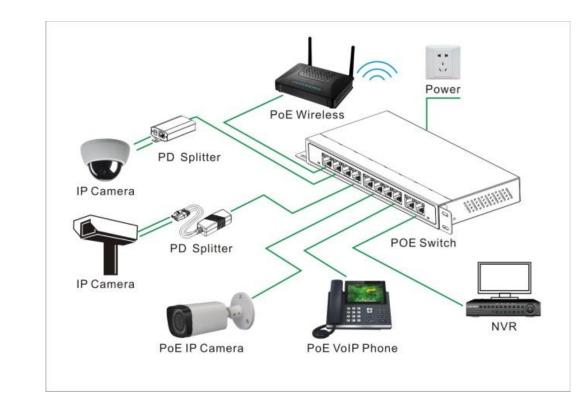
Technical Specifications

| | Model | LTPOE-SW802EG(120W) | | | | |
|------------------|-----------------------------------|--|--|--|--|--|
| | Product Name | 8-Port 10/100/1000Mbps IEEE 802.3af/at PoE Switch (End-Span PSE) | | | | |
| | Power Supply Mode | Power Adaptor | | | | |
| Power Supply | Voltage Range | DC48~56V | | | | |
| | Power Consumption | The device <5W PoE power supply ≤120W | | | | |
| | Network Port | Ethernet Downlink RJ-45 Port: 8*10/100/1000Mbps Uplink RJ-45 Port: 2*10/100/1000Mbps | | | | |
| | Transmission Distance | 1~8 Ethernet Downlink RJ-45 Port: 100m Uplink RJ-45 Port: 100m | | | | |
| Network Port | Transmission Medium | 1~8 Ethernet Downlink RJ-45 Port: Cat5e/6 standard cable Uplink RJ-45 Port: Cat5e/6 standard cable | | | | |
| Parameter | PoE Standards | IEEE802.3af/at | | | | |
| | PoE Power Supply Mode | End-span method | | | | |
| | PoE Power Supply Wattage | Each port ≤30W Whole device≤120W | | | | |
| | Network Standards | IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3az | | | | |
| | Swap Mode | Store-and- forward | | | | |
| Network Switch | Data-Caching Mechanism | 1M | | | | |
| Specification | MAC Address List | 4К | | | | |
| | Backplane Bandwidth | 20Gbps | | | | |
| | Forwarding Capacity | 14.88Mpps | | | | |
| | Power Indicator | Red LED on: power on | | | | |
| | Gigabit Ethernet Uplink Port | Green LED on: link up, off: link down, blinks: data transfer Yellow LED on: link speed is 1000Mbps, off: link speed is 10/100Mbp | | | | |
| Indicator/Button | PoE Indicator | 8 PoE indicators (Yellow) | | | | |
| mulcator/Button | PoE Network Port Indicator | 1~8 port indicators blink while data transfer | | | | |
| | Reset Button | Press the reset button to turn on indicator (green) and the device restarts. | | | | |
| | VLAN Button | Turn on VLAN button: indicator on and VLAN function restarts Turn off VLAN button: indicator off and VLAN function stops | | | | |
| Protection Level | Surge Protection | 6KV(common mode),10/700us IEC61000-4-5 2KV(differential mode),10/700us IEC610000-4-5 | | | | |
| | Electrostatic Protection | Contact Discharge: ±4KV Air Discharge: ±6KV Standard: IEC61000-4-2 | | | | |
| Reliability | Mean time between failures (MTBF) | >50000h | | | | |
| | Dimensions (L*W*H) | 219.6mmx105mmx27.6mm | | | | |
| Mechanical | Housing | Galvanized | | | | |
| WIECHAIIICAI | Body Color | Black | | | | |
| | Net Weight | 612g | | | | |
| Environmental | Operating Temperature | 0℃~55℃ | | | | |
| | Storage Temperature | -40°C~70°C | | | | |
| | Relative Humidity | 0~95% (non-condensing) | | | | |



Applications

- Security Monitoring System
- Multimedia Network Teaching System
- Medical Monitoring Display System
- Industrial Automation Control System
- Banking, securities, financial information display system
- Remote Network Server Monitoring
- Department Store Security
- Casino Security
- Hospitals, Airports and banks
- School Campuses



Application Diagram