

# Installation Guide

Gigabit Desktop PoE+ Switch

## LED Explanation

### Power

**On:** Power on  
**Off:** Power off

### Link/Act; Uplink 1, Uplink 2

**Green On:**  
Running at 1000 Mbps, but no activity.

**Green Flashing:**  
Running at 1000 Mbps and is transmitting or receiving data.

**Yellow On:**  
Running at 10/100 Mbps, but no activity.

**Yellow Flashing:**  
Running at 10/100 Mbps and is transmitting or receiving data.

**Off:**  
No device is linked to the corresponding port.

### PoE Status

**On:** Providing PoE power  
**Flashing:** PoE fault  
**Off:** Not providing PoE power

### PoE MAX

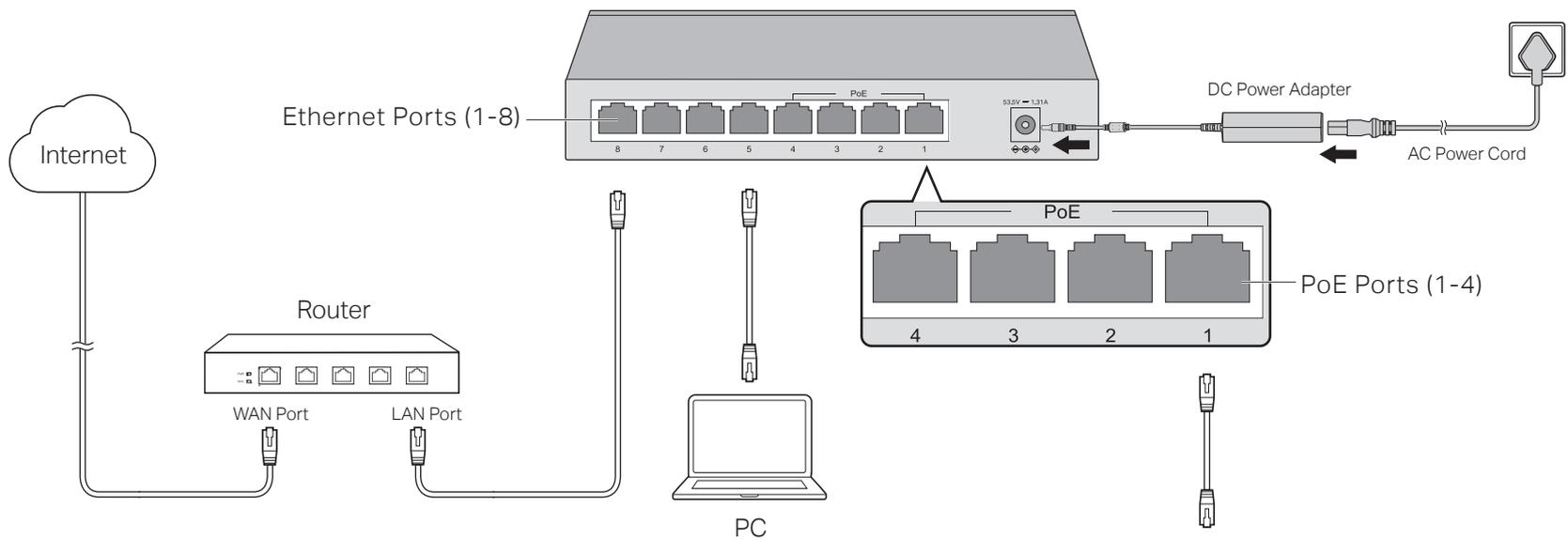
**For TL-SG1008P:**  
**On:**  $57\text{ W} \leq \text{Total power supply} < 64\text{ W}$   
**Flashing:** Total power supply  $\geq 64\text{ W}$   
**Off:** Total power supply  $< 57\text{ W}$

**For TL-SG1210P:**  
**On:**  $56\text{ W} \leq \text{Total power supply} < 63\text{ W}$   
**Flashing:** Total power supply  $\geq 63\text{ W}$   
**Off:** Total power supply  $< 56\text{ W}$

**For TL-SG1210MP:**  
**On:**  $116\text{ W} \leq \text{Total power supply} < 123\text{ W}$   
**Flashing:** Total power supply  $\geq 123\text{ W}$   
**Off:** Total power supply  $< 116\text{ W}$

**Package Contents:** Switch, Power Adapter, Power Cord and Installation Guide.  
**Note:** For simplicity, we will take TL-SG1008P for example throughout the Guide.

## Connection

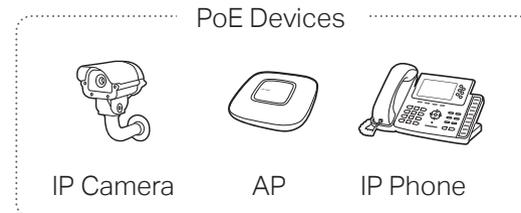


### Note:

- TL-SG1210P/TL-SG1210MP has two uplink ports, which typically connect to uplink devices like routers. Uplink 1 is an SFP port and works with a 1000 Mbps SFP module. Uplink 2 is an RJ45 port.
- PoE ports typically connect to PoE Devices. Besides, PoE ports can also connect to non-PoE devices, but only transmit data.
- For TL-SG1008P, maximum PoE power is 30 W for each PoE port and 64 W for all PoE ports in total.  
For TL-SG1210P, maximum PoE power is 30 W for each PoE port and 63 W for all PoE ports in total.  
For TL-SG1210MP, maximum PoE power is 30 W for each PoE port and 123 W for all PoE ports in total.

### PoE Disclaimer:

PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.



# Frequently Asked Questions (FAQ)

## Q1. Why is the Power LED not lit?

The Power LED should be lit when the power system is working normally. If the Power LED is not lit, please try the following:

**A1:** Make sure the AC power cord is connected to the switch with power source properly.

**A2:** Make sure the voltage of the power supply meets the requirements of the input voltage of the switch.

**A3:** Make sure the power source is on.

## Q2. Why is the Link/Act LED not lit while a device is connected to the corresponding port?

Please try the following:

**A1:** Make sure that the cable connectors are firmly plugged into the switch and the device.

**A2:** Make sure the connected device is turned on and works normally.

**A3:** The cable must be less than 100 meters long (328 feet).

## Q3. Why is PoE/PoE+ Port not supplying power for PoE devices?

If total power consumption of connected PoE devices exceeds the maximum, the system will cut off the power to ports with the lowest PoE priority. A PoE port with a smaller index number has a higher PoE priority.

Take TL-SG1008P as an example. If port 1, 2 and 4 are consuming 15.4 W respectively, and an additional PoE device with 19 W is connected to port 3, the total power consumption exceeds 64 W, so the system will cut off the power to port 4.

 To ask questions, find answers, and communicate with TP-Link users or engineers, please visit <https://community.tp-link.com> to join TP-Link Community.

 For technical support and other information, please visit <https://www.tp-link.com/support>, or simply scan the QR code.

 If you have any suggestions or needs on the product guides, welcome to email [techwriter@tp-link.com.cn](mailto:techwriter@tp-link.com.cn).



### Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended.
- Adapter shall be installed near the equipment and shall be easily accessible.
- Place the device with its bottom surface downward.
-  Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don't hesitate to contact us.

# Specifications

## General Specifications

Standard	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3af, IEEE 802.3at, IEEE 802.1p IEEE 802.3z (Only for TL-SG1210P/TL-SG1210MP)
Protocol	CSMA/CD
Interface	For TL-SG1008P: 8 10/100/1000 Mbps RJ45 Ports, Auto-Negotiation MDI/MDIX; PoE Ports: Port 1-Port 4 For TL-SG1210P/TL-SG1210MP: 9 10/100/1000 Mbps RJ45 Ports, Auto-Negotiation MDI/MDIX; 1 1000 Mbps SFP port; PoE Ports: Port 1-Port 8
Network Media (Cable)	10BASE-T: UTP category 3, 4, 5 cable (maximum 100 m); EIA/TIA-568 100 Ω STP (maximum 100 m) 100BASE-TX: UTP category 5, 5e cable (maximum 100 m); EIA/TIA-568 100 Ω STP (maximum 100 m) 1000BASE-T: UTP category 5e cable or above (maximum 100 m); EIA/TIA-568 100 Ω STP (maximum 100 m) 1000BASE-SX/LX/LX10/BX10: MMF, SMF (Only for TL-SG1210P/TL-SG1210MP)
Backbone Bandwidth	TL-SG1008P: 16 Gbps TL-SG1210P/TL-SG1210MP: 20 Gbps
MAC Address Table	4K
Transfer Method	Store-and-Forward
MAC Address Learning	Automatically learning, automatically aging
Power Supply	Input: 100-240 V AC, 50/60 Hz Output: 53.5 V DC/2.43 A (For TL-SG1210MP) 53.5 V DC/1.31 A (For TL-SG1008P/TL-SG1210P)
Wall Mountable	Yes
Distance Between Mounting Holes	TL-SG1008P: 105 mm TL-SG1210P/TL-SG1210MP: 150 mm

## Environmental and Physical Specifications

Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Operating Humidity	10% to 90%RH non-condensing
Storage Humidity	5% to 90%RH non-condensing

### EU Declaration of Conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/30/EU, 2014/35/EU, 2009/125/EC, 2011/65/EU and (EU)2015/863. The original EU declaration of conformity may be found at <https://www.tp-link.com/en/ce>

