

Installation Guide

Unmanaged Desktop PoE+ Switch

LED Explanation

Power	PoE Status
On: Power on	On: Providing PoE power
Off: Power off	Flashing: PoE fault
	Off: Not providing PoE power
Link/Act; Uplink 1, Uplink 2	PoE Max
Green On: Running at 1000 Mbps, but no activity.	For TL-SG1008P: On: 57 W≤Total power supply < 64 W
Green Flashing: Running at 1000 Mbps and is transmitting or receiving data.	Flashing: Total power supply ≥ 64 W
Yellow On: Running at 10/100 Mbps, but no activity.	Off: Total power supply < 57 W
Yellow Flashing: Running at 10/100 Mbps and is transmitting or receiving data.	For TL-SG1210P: On: 56 W≤Total power supply < 63 W
Off: No device is linked to the corresponding port.	Flashing: Total power supply ≥ 63 W
	Off: Total power supply < 56 W
	For TL-SG1210MP: On: 116 W≤Total power supply < 123 W
	Flashing: Total power supply ≥ 123 W
	Off: Total power supply < 116 W

Switches Explanation (Only for TL-SG1210MP)

Note: The numbers in brackets indicate the ports where the feature takes effect. For example, when Extend(1-4) is toggled to On, the Extend mode will be enabled for ports 1-4.

Extend

- Off: Ports run at 10/100/1000 Mbps and support PoE power supply up to 100 m away.
- On: Ports run at 10 Mbps and support PoE power supply up to 250 m away.

Priority

- Off: All the ports transmit data with the same priority.
- On: The specific ports transmit data with a higher priority than other ports.

Recovery

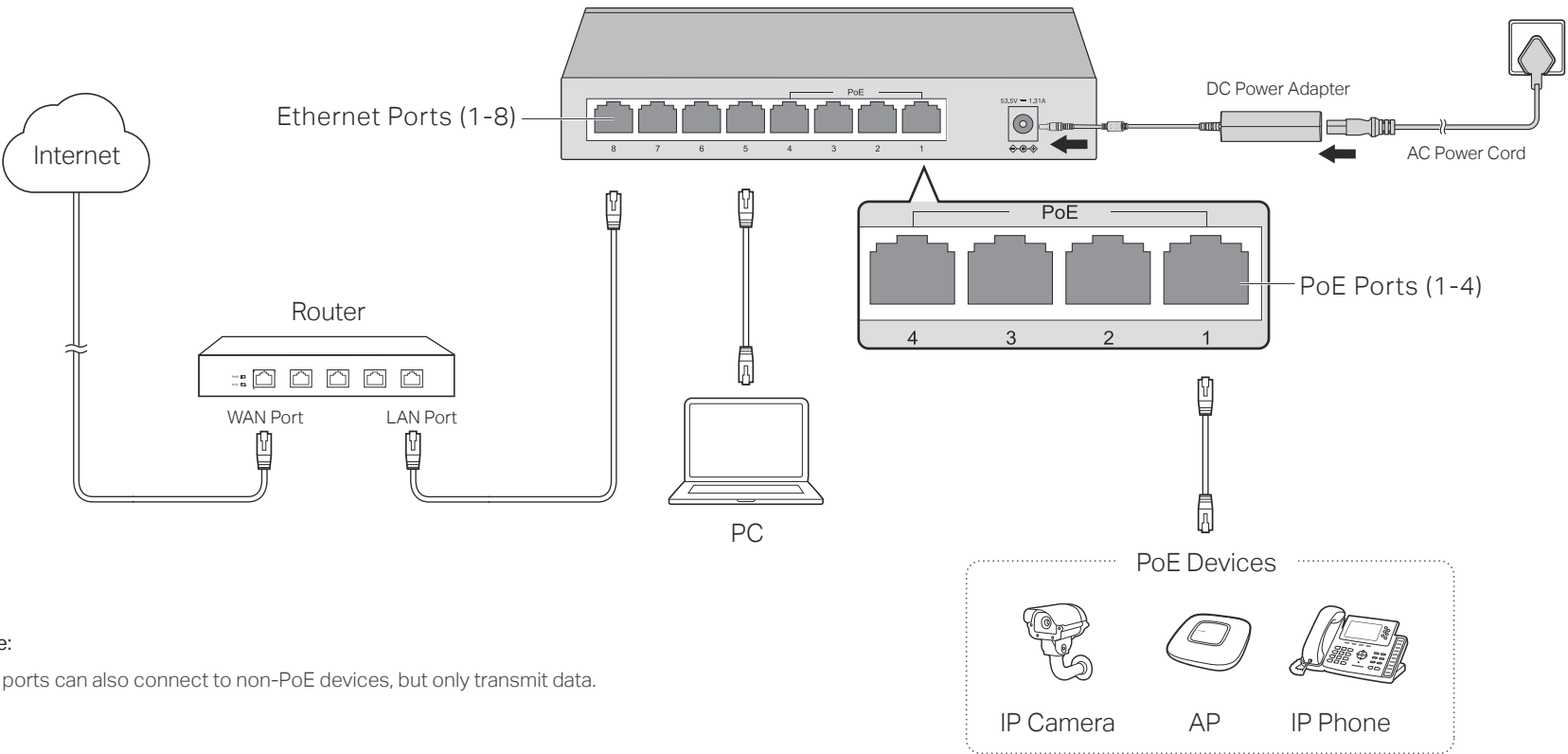
- Off: The PoE Auto Recovery function is disabled.
- On: The switch will constantly detect the working status of a PoE powered device (PD). When the switch finds that the PD works abnormally, the switch will reboot it.

Isolation

- Off: Ports can transmit data with each other.
- On: Specific ports cannot transmit data with other downlink ports. They can transmit data only with the uplink ports.

Note: For simplicity, we will take TL-SG1008P for example throughout the Guide.

Connection



Frequently Asked Questions (FAQ)

Q1. The Power LED is not lit.

The Power LED should be lit when the power system is working normally. If the Power LED is not lit, please check as follows:

- A1: Make sure the AC power cord is connected 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. The Link/Act LED is not lit when a device is connected to the corresponding port.

It is recommended that you check the following items:

- 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 working well.
- A3: The cable must be less than 100 meters long (328 feet). If Extend Mode is enabled, it should be less than 250 meters (820 feet).

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

When the total power consumption of connected PoE devices exceeds the maximum, the PoE port with a smaller port number has a higher priority. The system will cut off power to the ports with larger port numbers to ensure supplying to other ports.

Take TL-SG1008P as an example. If port 1, 2 and 4 are consuming 15.4 W respectively, and an additional PoE device with 20 W is connected to port 3, the system will cut off the power of port 4 to compensate for the overload.

Q4. What should I notice before using the PoE Auto Recovery feature?

- A1: Before upgrading a connected PoE powered device (PD), disable PoE Auto Recovery to avoid the PD's damage.
- A2: When a PD does not send data packets to the switch for a long period in certain scenarios (e.g. an IPC in sleep mode), disable PoE Auto Recovery to avoid the PD repeatedly rebooting.

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

PoE Disclaimer

The speed of the ports in extend mode will downgrade to 10 Mbps. The actual transmission distance may vary due to power consumption of PoE-powered devices or the cable quality and type.

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.

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/support/ce/>

UKCA Declaration of Conformity


TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Electromagnetic Compatibility Regulations 2016 and Electrical Equipment (Safety) Regulations 2016.

The original UK Declaration of Conformity may be found at <https://www.tp-link.com/support/ukca>


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 1-4 For TL-SG1210P: 9 10/100/1000 Mbps RJ45 Ports, Auto-Negotiation MDI/MDIX; 1 1000 Mbps SFP port; PoE Ports: Port 1-8 For TL-SG1210MP: 10 10/100/1000 Mbps RJ45 Ports, Auto-Negotiation MDI/MDIX; 1 1000 Mbps SFP port (Combo); PoE Ports: Port 1-8
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)
Switching Capacity	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 VAC, 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)
PoE Budget	TL-SG1008P: 64 W (up to 30 W for each PoE port) TL-SG1210P: 63 W (up to 30 W for each PoE port) TL-SG1210MP: 123 W (up to 30 W for each PoE port)
Wall Mountable	Yes
Distance Between Mounting Holes	TL-SG1008P: 105 mm TL-SG1210P/TL-SG1210MP: 150 mm




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If you have any suggestions or needs on the product guides, welcome to email 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.
- Use only power supplies which are provided by manufacturer and in the origin packing of this product. If you have any questions, please don't hesitate to contact us.

