

Installation Guide

2.5G Multi-Gigabit Desktop PoE++ Switch

Panel Explanation

Power LED

On: Power on
Off: Power off

PoE Max LED

On: $116\text{ W} \leq \text{Total power supply} < 123\text{ W}$
Flashing: Total power supply $\geq 123\text{ W}$
Off: Total power supply $< 116\text{ W}$

Recovery Switch

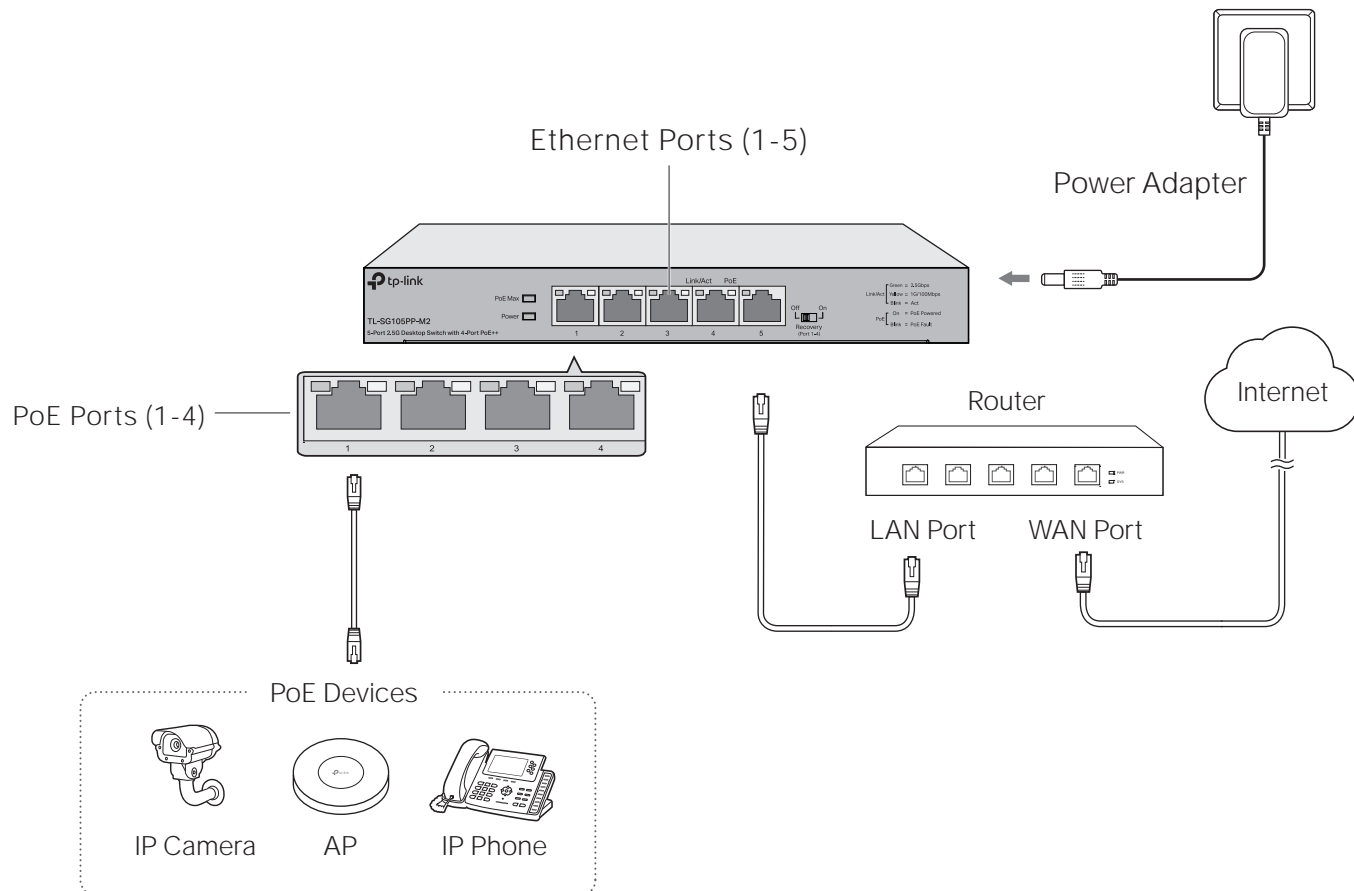
On: The switch will constantly detect the working status of a PoE powered device (PD). When the switch finds that the PD works abnormally, the switch will reboot it.
Off: The PoE Auto Recovery function is disabled.

Link/Act and PoE Status LEDs

On (Green): Running at 2.5 Gbps
On (Yellow): Running at 1000/100 Mbps
Flashing: Transmitting or receiving data
Off: No device connected

On: Providing PoE power
Off: Not providing PoE power

Connection



Note:

- PoE ports can also connect to non-PoE devices, but only transmit data.
- TL-SG105PP-M2 can supply up to 60 W for each PoE port and 123 W for all PoE ports.

Specifications

General Specifications

Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3bz, IEEE802.3x, IEEE802.1p, IEEE802.3af, IEEE802.3at, IEEE802.3bt
Network Media (Cable)	100Base-TX: UTP category 5 cable or above (max. 100 m) 1000Base-T: UTP category 5e cable or above (max. 100 m) 2.5GBase-T: UTP category 5e cable or above (max. 100 m)
Interface	5 100 Mbps/1 Gbps/2.5 Gbps Auto-Negotiation RJ45 Ports PoE Ports: Port 1-Port 4 Total Power Supply: 123 W
Switching Capacity	25 Gbps
Transfer Method	Store-and-Forward
MAC Address Learning	Automatically learning, automatically aging
Power Supply	External Power Adapter Input: 100-240 VAC, 50/60 Hz Output: 53.5 VDC /2.43 A
Wall mountable	Yes
Distance between mounting holes	150mm

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 (EU)2015/863, 2014/30/EU, 2014/35/EU, and 2011/65/EU.

The original EU declaration of conformity may be found at <https://www.tp-link.com/en/ce>.

UK 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/>



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?

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

Q3. Why are PoE ports 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 higher priority. The system will cut off power to the ports with larger port numbers to ensure supplying to other ports.

Take TL-SG105PP-M2 as an example. If port 1, 2 and 4 are consuming 35 W respectively, and an additional PoE device with 23 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.



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.



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.

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.