

Installation Guide

5/16-Port Gigabit Desktop PoF Switch

LED Explanation

Power

On: Power on Power Off: Power off

PoF MAX



TL-SG1005LP

PoE Max On: 33 W ≤ Total power supply < 40 W Flashing: Total power supply ≥ 40 W Off: Total power supply < 33 W

TI -SG1005P

On: 58 W ≤ Total power supply < 65 W Flashing: Total power supply ≥ 65 W Off: Total power supply < 58W

TL-SG116P

On: Total power supply ≥ 113 W

Flashing: Total power supply ≥ 113 W and lasts

for more than 2 minutes Off: Total power supply < 113W

corresponding port.

Link/Act and PoF Status

On (Green): Connected to a 1000 Mbps device

On (Yellow): Connected to a 10/100 Mbps device

Flashing: Transmitting/receiving data Off: No device is connected to the

On: Providing PoE power

Flashing: Current-overload/Short-circuit Off: Not providing PoE power

Switches Explanation

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.

Priority (for TL-SG116P)

Off: All the ports transmit data with the same priority.

On: The corresponding ports transmit data with a higher priority than other ports. When congestion occurs, packets which are transmitted by the ports with a higher priority occupy the whole bandwidth.

Extend (for TL-SG116P)

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

Isolation (for TL-SG116P)

Off: Ports can transmit data with each other.

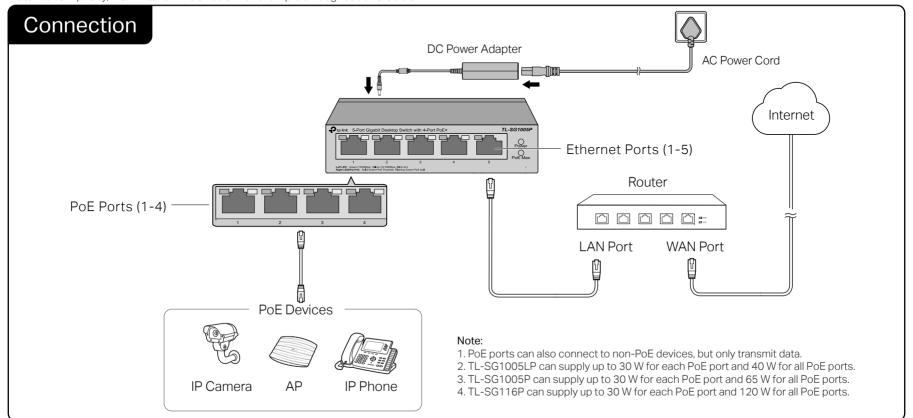
On: The corresponding ports cannot transmit data with other downlink ports. They can transmit data only with the uplink ports (ports 15-16 of TL-SG116P).

Recovery (for TL-SG116P)

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.

Note: For simplicity, we will take TL-SG1005P for example throughout this Guide.



Specifications

General Specifications

Standard	IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.3af, IEEE802.3at, IEEE802.1p
Protocol	CSMA/CD
Interface	For TL-SG1005LP/TL-SG1005P: 5 10/100/1000 Mbps RJ45 Ports Auto-Negotiation MDI/MDIX PoE Ports: Port 1-Port 4 For TL-SG116P: 16 10/100/1000 Mbps RJ45 Ports Auto-Negotiation MDI/MDIX PoE Ports: Port 1-Port 16 Total Power Supply: 40 W (TL-SG1005LP)/65 W (TL-SG1005P)/120 W (TL-SG116P)
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)
Switching Capacity	10 Gbps (TL-SG1005LP/TL-SG1005P)/32 Gbps (TL-SG116P)
MAC Address Table	2 K (TL-SG1005LP/TL-SG1005P)/8 K (TL-SG116P)
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 /0.81 A (TL-SG1005LP) 53.5 VDC /1.31 A (TL-SG1005P) 53.5 VDC /2.43 A (TL-SG116P)
Wall Mountable	Yes
Distance Between Mounting Holes	39 mm (TL-SG1005LP/TL-SG1005P)/200 mm (TL-SG116P)

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

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). If Extend Mode is enabled, it should be less than 250 meters (820 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-SG1005P 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 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.

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, 2011/65/EU and (FLI)2015/863

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

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.
- · Place the device with its bottom surface downward.
- 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.
- The plug on the power supply cord is used as the disconnect device, the socket-outlet shall be easily accessible.

