TP-Link

Installation Guide

5-Port Gigabit Desktop PoE Switch

LED Explanation

Power

On: Power on
Off: Power off

Link/Act and PoE 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 corresponding port.

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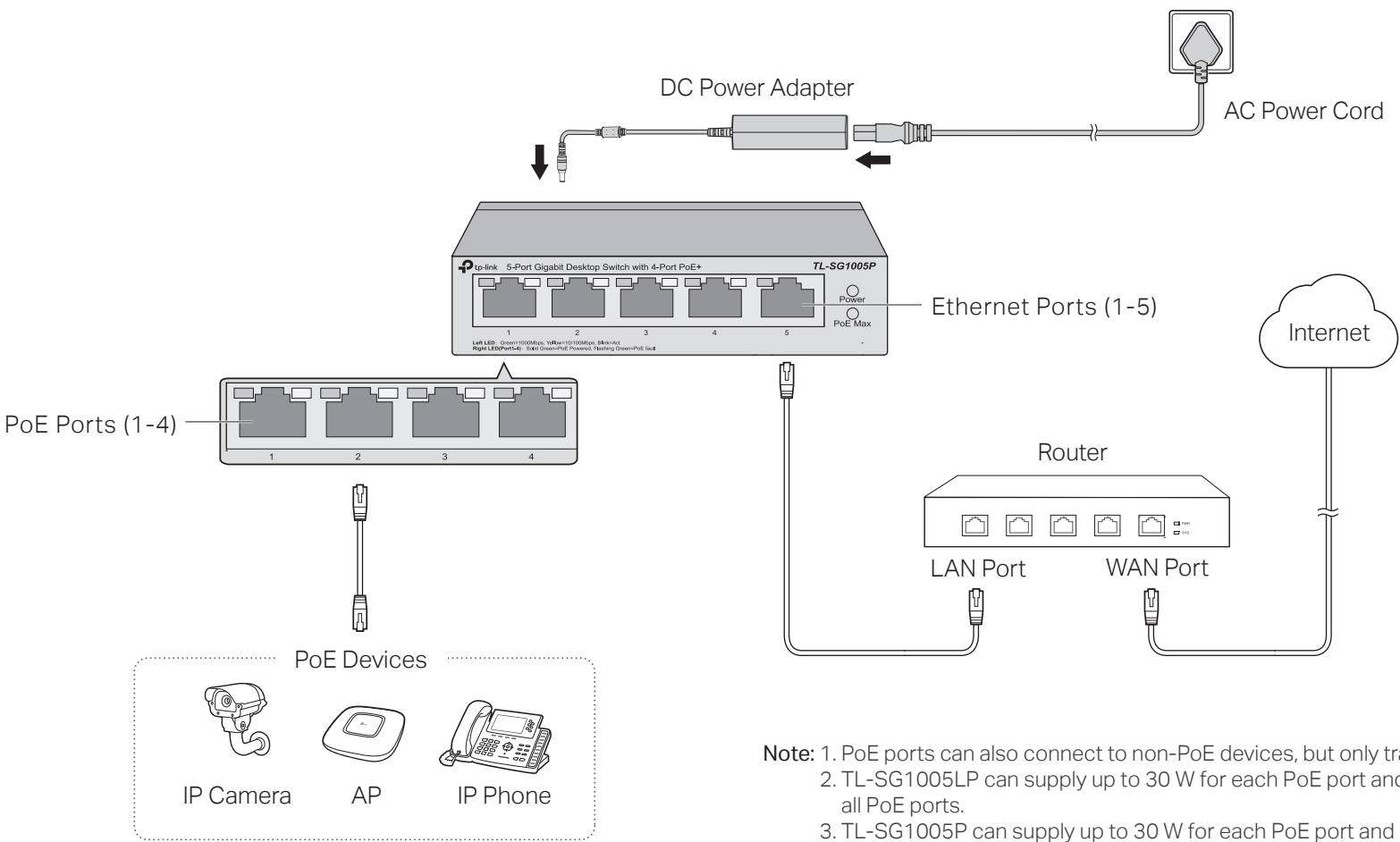**Off:** Not providing PoE power

PoE MAX

TL-SG1005LP
On: 33 W ≤ Total power supply < 40 W
Flashing: Total power supply ≥ 40 W
Off: Total power supply < 33 W

TL-SG1005P
On: 58 W ≤ Total power supply < 65 W
Flashing: Total power supply ≥ 65 W
Off: Total power supply < 58W

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

Connection

DC Power Adapter

AC Power Cord

tp-link 5-Port Gigabit Desktop Switch with 4-Port PoE+ **TL-SG1005P**

Power

PoE Max

Left LED : Green=1000Mbps, Yellow=10/100Mbps, Blink=Act
Right LED(Port1-4): Solid Green=PoE Powered, Flashing Green=PoE fault

Ethernet Ports (1-5)

Internet

PoE Ports (1-4)

Router

LAN Port   WAN Port

PoE Devices

IP Camera   AP   IP Phone

Note: 1. PoE ports can also connect to non-PoE devices, but only transmit data.
2. TL-SG1005LP can supply up to 30 W for each PoE port and 40 W for all PoE ports.
3. TL-SG1005P can supply up to 30 W for each PoE port and 65 W for all PoE ports.

Specifications

General Specifications

Standard	IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.3af, IEEE802.3at, IEEE802.1p
Protocol	CSMA/CD
Interface	5 10/100/1000 Mbps RJ45 Ports Auto-Negotiation MDI/MDIX PoE Ports: Port 1-Port 4, Total Power Supply: 40 W (TL-SG1005LP)/65 W (TL-SG1005P)
Network Media (Cable)	10BASE-T: UTP category 3, 4, 5 cable (maximum 100 m); EIA/TIA-568 100Ω STP (maximum 100 m) 100BASE-TX: UTP category 5, 5e cable (maximum 100 m); EIA/TIA-568 100Ω STP (maximum 100 m) 1000BASE-T: UTP category 5e cable or above (maximum 100 m); EIA/TIA-568 100Ω STP (maximum 100 m)
Switching Capacity	10 Gbps
MAC Address Table	2 K
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)
Wall Mountable	Yes
Distance Between Mounting Holes	39 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

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 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 inserted to port 3, the system will cut off the power of port 4 to compensate for the overload.

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If you have any suggestions or needs on the product guides, welcome to email **techwriter@tp-link.com.cn**.