tp-link

Installation Guide

5/8/16-Port Gigabit Desktop Switch

Panel Explanation

### Power LED

Power

On: Power on
Off: Power off
Flashing: Loop occurs in the network topology

Link/Act LED

For TL-SG116:

1000M (Green)
On: Running at 1000 Mbps
Flashing: Transmitting/receiving data

10/100M (Yellow)
On: Running at 10/100 Mbps
Flashing: Transmitting/receiving data

For other models:

On: Running at 10/100/1000 Mbps
Off: No device is linked to the corresponding port
Quick flashing: Transmitting/receiving data
Slow flashing: Loop is detected on the corresponding port

Switch

Off ___ On
Loop Prevention

On: The switch will monitor and address loop-related issues within the network structure to prevent disruptions caused by redundant pathing
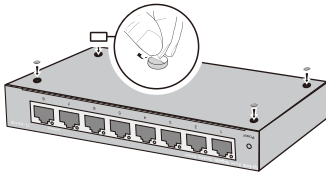**Off:** (default) The switch will not try to monitor or address loop-related issues

Note:

For simplicity, we will take TL-SG108 for example throughout this Guide.
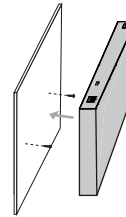
Installation

Desktop:
Attach the supplied feet to the bottom of the switch to prevent it from slipping when placed on a desktop.

Wall-mounting:
Drill two holes on the wall according to the mounting holes on the bottom of the switch, then secure the switch to the wall with two suitable screws (not provided).

Note: For detailed information, please refer to the Wall Mounting Guide on the device's support page.

Connection

Power Adapter

TL-SG108

Ethernet Ports (1-8)

Internet

Router

WAN Port   LAN Port

PC   PC
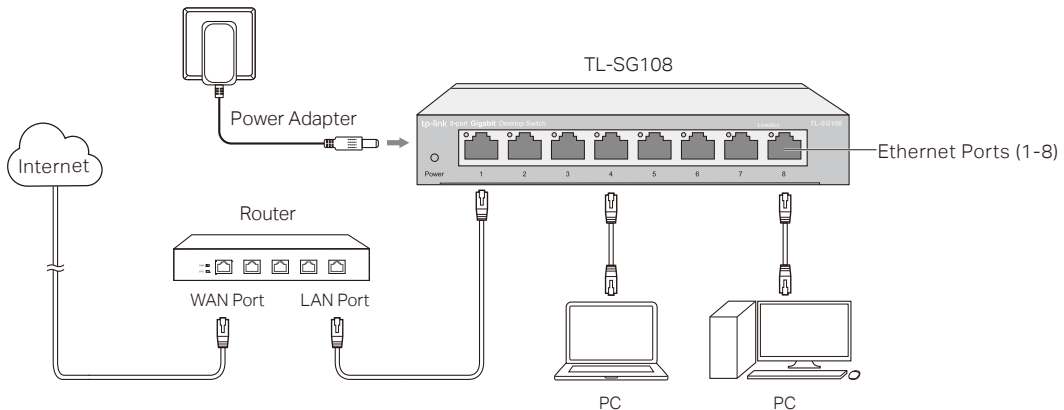
Specifications

General Specifications

Standard	IEEE802.3, IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.1p
Protocol	CSMA/CD
Data Transfer Rate	Ethernet: 10 Mbps (Half Duplex), 20 Mbps (Full Duplex) Fast Ethernet: 100 Mbps (Half Duplex), 200 Mbps (Full Duplex) Gigabit Ethernet: 2000 Mbps (Full Duplex)
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 (maximum 100 m) EIA/TIA-568 100 Ω STP (maximum 100 m)
Interface	5/8/16 10/100/1000 Mbps Auto-Negotiation RJ45 Ports
LED Indicators	Power, Link/Act LED
Transfer Method	Store-and-Forward
MAC Address Learning	Automatically learning, automatically aging
Frame Forward Rate	10Base-T: 14881pps/Port 100Base-TX: 148810pps/Port 1000Base-T: 1488095pps/Port
Wall Mountable	Yes
Distance Between Mounting Holes	TL-SG105/TL-SG105S: 39 mm TL-SG108/TL-SG108S: 94 mm TL-SG116: 204.8 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. 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, check as follows:

A1: Make sure the power adapter 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. 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 works normally.

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

Q3. Why does the switch fail to detect and block a loop from occurring in the network topology when Loop Prevention is enabled?

A: When this switch is connected to other non-terminal devices, such as switches of other brands, and the device is incapable of correctly processing or forwarding loop detection packets, the Loop Prevention function will be limited. It is recommended to connect the terminal devices directly to this switch or connect non-terminal devices with complete forwarding capability to this switch.

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