

TP-Link TL-SG105S-M2

TP-Link TL-SG105S-M2 5-Port Multi-Gigabit 2.5G Ethernet Switch User Manual

MODEL: TL-SG105S-M2

1. Introduction

The TP-Link TL-SG105S-M2 is a 5-port multi-gigabit unmanaged desktop switch designed to provide high-speed network connectivity. It offers 2.5 Gigabit Ethernet ports, enabling enhanced performance for devices requiring higher bandwidth, such as 2.5G WiFi 6 Access Points, 2.5G NAS, 2.5G PCIe Adapters, and gaming computers. This switch features a plug-and-play design, silent operation due to its fanless metal casing, and flexible desktop or wall-mounting options.



Image: The TP-Link TL-SG105S-M2 switch, highlighting its 5-port 2.5G Multi-Gigabit capabilities.

2. Package Contents

Verify that your package contains the following items:

- TL-SG105S-M2 5-Port Multi-Gigabit 2.5G Ethernet Switch
- Power Adapter
- Installation Guide

- Rubber Feet

3. Product Overview

The TL-SG105S-M2 features a durable metal casing and a compact design suitable for various environments. It includes five 2.5 Gigabit Ethernet ports and a power indicator LED.

3.1 Front Panel



Image: Front view of the TL-SG105S-M2 switch, showing the five RJ45 ports and the power LED.

- **RJ45 Ports (1-5):** Connect to network devices such as computers, servers, or other switches. These ports support auto-negotiation for 100Mbps, 1Gbps, and 2.5Gbps speeds.
- **LED Indicators:** Each port has two LEDs. The left LED (Green) indicates a 2.5Gbps link/activity. The right LED (Green/Yellow) indicates 1Gbps (Green) or 100Mbps (Yellow) link/activity. A blinking LED indicates data transmission.
- **Power LED:** Indicates the power status of the switch. On when powered, off when not.

3.2 Dimensions

Compact, Ideal for Desktops

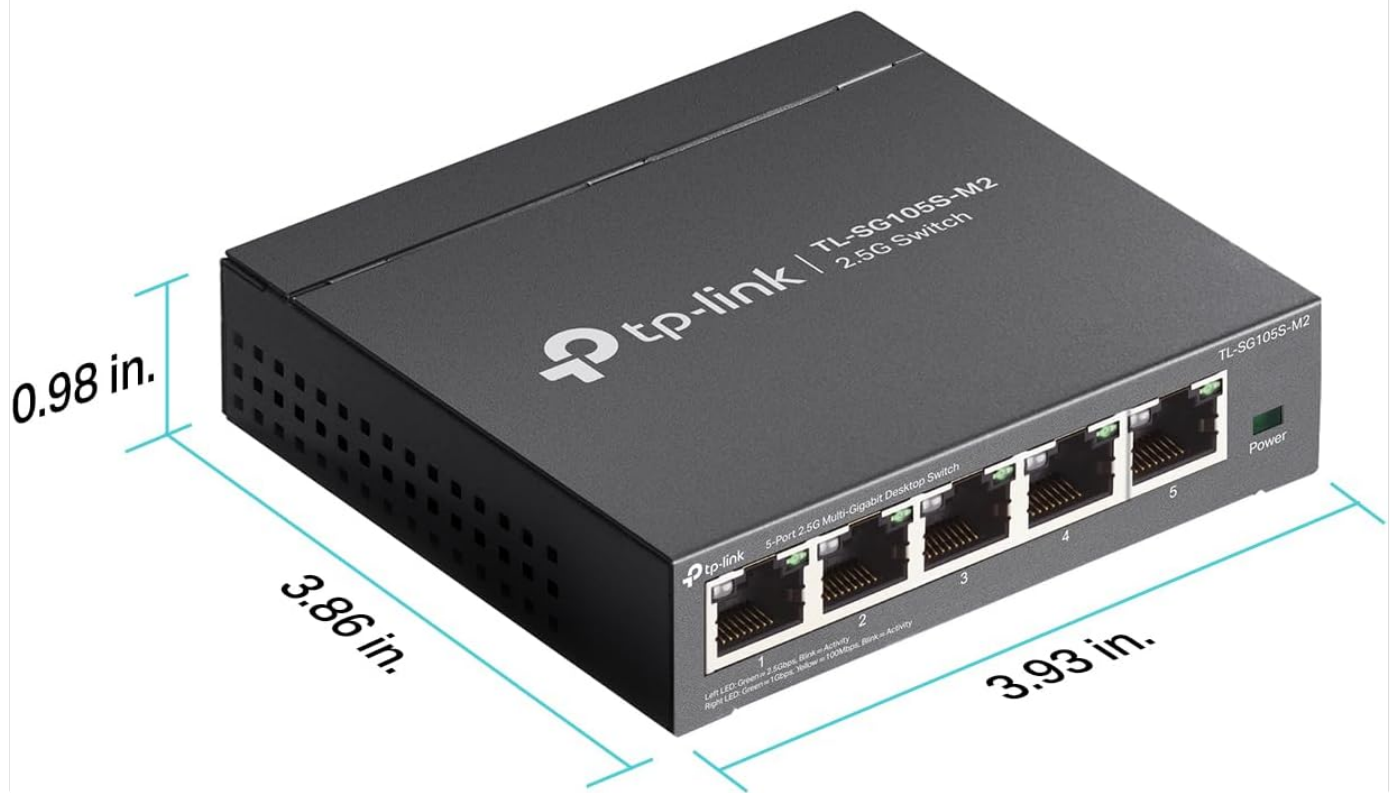


Image: Diagram showing the compact dimensions of the TL-SG105S-M2 switch: 3.93 inches (width) x 3.86 inches (depth) x 0.98 inches (height).

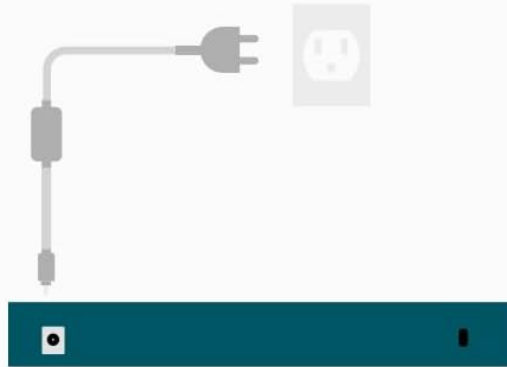
4. Setup

The TL-SG105S-M2 is a plug-and-play device, requiring no software configuration. Follow these steps for basic setup:

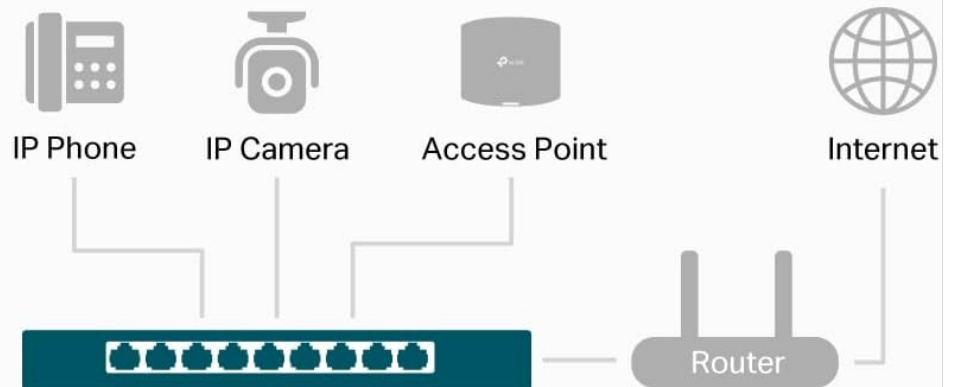
1. **Connect to Power:** Connect the provided power adapter to the switch's power port and then plug the adapter into a power outlet. Ensure the Power LED on the switch illuminates.
2. **Connect Devices:** Use Ethernet cables to connect your network devices (e.g., computers, NAS, gaming consoles, routers) to any of the 2.5 Gigabit RJ45 ports on the switch.
3. **Verify Connection:** Check the LED indicators on the switch for each connected port. A solid green or yellow LED indicates a successful link, and a blinking LED indicates network activity.

Plug and Play

1. Connect to Power



2. Connect the Devices



3. Enjoy



Image: Visual guide for the plug-and-play setup process, showing power connection and device connections to a router.

5. Operating

The TL-SG105S-M2 operates as an unmanaged switch, automatically handling network traffic without user intervention. It supports auto-negotiation, which intelligently senses the link speeds of connected devices and adjusts between 100Mbps, 1Gbps, and 2.5Gbps for optimal performance.

5.1 Multi-Gigabit Performance

The 2.5G ports are designed to maximize the performance of your multi-gig devices, providing up to 25 Gbps of switching capacity. This is ideal for:

- 2.5G WiFi 6 Access Points
- 2.5G Network Attached Storage (NAS) devices
- 2.5G PCIe Adapters and Servers

- Gaming computers and 4K video streaming setups

Experience Peak 2.5G Performance & Bandwidth



Image: The switch connected to various high-bandwidth devices, illustrating its role in a 2.5G network.

5.2 Cable Compatibility

You can achieve 2.5Gbps speeds using existing Cat5e or Cat6 Ethernet cables, eliminating the need for costly wiring upgrades. Cat6A cables also support 2.5Gbps.

Upgrade to Blazing Speeds. Use Existing Cables.

Cable Type	1G	2.5G
CAT 5e	✓	✓
CAT 6	✓	✓
CAT 6A	✓	✓

1G
speed



2.5G
speed

Image: Chart indicating that Cat5e, Cat6, and Cat6A cables are compatible with both 1G and 2.5G speeds.

5.3 Application Scenarios

The switch is suitable for various networking needs:

- LAN parties and home entertainment systems
- Small and home offices requiring fast data transfer
- Workstations needing instant, high-speed data transfers

Future-Proof Your Network with 2.5G



LAN Parties



Home Entertainment



Small & Home Offices



Instant Transfers for Workstations

Image: Examples of environments where the 2.5G switch enhances network performance.

6. Maintenance

To ensure optimal performance and longevity of your TL-SG105S-M2 switch, consider the following maintenance guidelines:

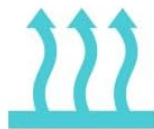
- **Placement:** Place the switch on a stable, flat surface or mount it securely on a wall. Ensure adequate ventilation around the device.
- **Cleaning:** Keep the switch clean and free from dust. Use a soft, dry cloth for cleaning. Avoid liquid cleaners.
- **Environment:** Operate the switch within its specified temperature and humidity ranges (refer to Specifications).
- **Silent Operation:** The fanless design ensures silent operation and efficient thermal management, making it suitable

for quiet environments.

Silent Operation with Industry-Leading Fanless Design



Silent
Operation



Efficient Thermal
Management



Desktop or
Wall-Mounting



Durable Metal
Construction

Image: Features of the switch including silent operation, thermal management, mounting options, and metal casing.

7. Troubleshooting

If you encounter issues with your switch, try the following troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to the switch and a working power outlet. Check if the Power LED is illuminated.
- **No Link/Activity LED:** Verify that the Ethernet cables are properly connected to both the switch and the network device. Try a different cable or port. Ensure the connected device is powered on and functioning correctly.
- **Slow Speed:** Confirm that your connected devices and network adapters support 2.5G speeds. While the switch supports Cat5e/Cat6 for 2.5G, cable quality and length can affect performance. Ensure your cables are not damaged.
- **Network Loop:** Although this is an unmanaged switch, ensure there are no accidental network loops (connecting two ports on the same switch, or connecting two switches in a way that creates a circular path) as this can cause network instability.

8. Specifications

Feature	Detail
Model Number	TL-SG105S-M2
Number of Ports	5
Interface Type	RJ45
Data Transfer Rate	25 Gigabits Per Second (Total Switching Capacity)
Voltage	9 Volts (DC)
Case Material	Metal
Product Dimensions	5.45 x 4.96 x 3.98 inches
Item Weight	1.04 pounds
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% non-condensing
Storage Humidity	5% to 90% non-condensing

9. Warranty and Support

TP-Link products come with a limited warranty. For detailed warranty information, technical support, and product registration, please visit the official TP-Link website. You can find support resources, FAQs, and contact information for your region.

TP-Link Official Website: www.tp-link.com

© 2025 TP-Link. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question