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TP-Link TL-SG105-M2

TP-Link TL-SG105-M2 5-Port Multi-Gigabit Unmanaged Network Switch

Model: TL-SG105-M2 | Brand: TP-Link

1. INTRODUCTION

The TP-Link TL-SG105-M2 is a 5-Port Multi-Gigabit Unmanaged Network Switch designed to provide super-fast network connections for your home or small office. With 2.5-Gigabit ports, it unlocks high performance with multi-gig bandwidth, offering up to 25 Gbps of switching capacity. This switch features auto-negotiation, intelligently sensing link speeds and adjusting between 100Mb/1G/2.5G for optimal performance across various devices. Its fanless metal design ensures quiet operation and durability, making it suitable for diverse environments. The device is plug-and-play, requiring no software installation or configuration.



Figure 1: Front view of the TP-Link TL-SG105-M2 5-Port Multi-Gigabit Unmanaged Network Switch.

2. SETUP

The TL-SG105-M2 switch is designed for easy plug-and-play setup, requiring no complex configuration. Follow these steps to integrate it into your network:

- 1. Connect the Power Adapter:** Plug the provided power adapter into the switch's power port and then into a power outlet. The Power LED on the switch will illuminate.
- 2. Connect to Your Router/Modem:** Use an Ethernet cable to connect one of the switch's 2.5G ports to a LAN port on your router or modem.
- 3. Connect Your Devices:** Connect your network devices (e.g., computers, NAS, gaming consoles, 2.5G WiFi 6 APs) to the remaining 2.5G ports on the switch using Ethernet cables. The corresponding Link/Act LEDs will light up, indicating a successful connection.

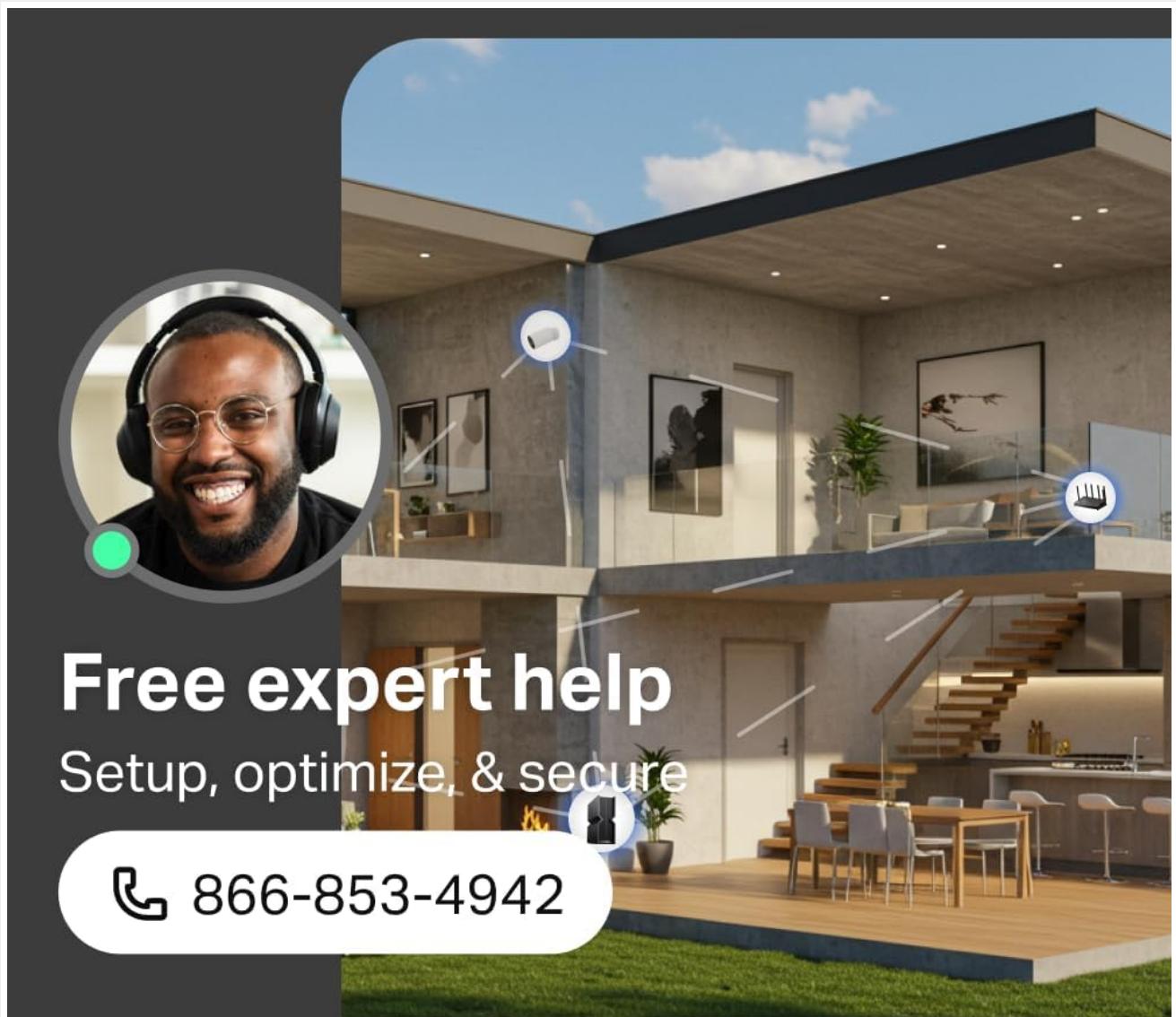


Figure 2: Back view of the switch, highlighting the power input.



Figure 3: Front view of the switch with 5 2.5G ports and LED indicators.

Setup Videos:

Video 1: A 360-degree view of the TP-Link TL-SG105-M2 switch, showcasing its design and ports.

Video 2: Unboxing, setup, and installation guide for a TP-Link 2.5 Gbps 8-Port switch, demonstrating general setup procedures applicable to the 5-Port model.

Video 3: Guide on how to upgrade your router with a network switch, explaining the benefits and connection process.

3. OPERATING THE SWITCH

Once connected, the TL-SG105-M2 operates automatically. It is an unmanaged switch, meaning it requires no user configuration for basic network functionality. The auto-negotiation feature ensures optimal performance for all connected devices by automatically adjusting link speeds (100Mb/1G/2.5G).

LED Indicators:

- **Power LED:** Indicates the power status of the switch. On: Power on. Off: Power off.
- **Link/Act LEDs (Left LED - Green):** On: Running at 2.5 Gbps. Blinking: Transmitting/receiving data.
- **Link/Act LEDs (Right LED - Green):** On: Running at 1 Gbps. Blinking: Transmitting/receiving data.
- **Link/Act LEDs (Right LED - Yellow):** On: Running at 100 Mbps. Blinking: Transmitting/receiving data.

The fanless design of the switch ensures silent operation, making it ideal for noise-sensitive environments like homes and offices. Its durable metal casing also contributes to good heat dissipation, maintaining stable performance.



Figure 4: The switch highlighting silent operation and good heat dissipation due to its fanless metal design.

2.5G Super-Fast Speeds without Changing Cables

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



Figure 5: Illustration of cable compatibility, showing that Cat5e, Cat6, and Cat6A cables can support 2.5G speeds with this switch.

4. MAINTENANCE

The TP-Link TL-SG105-M2 is designed for minimal maintenance. To ensure optimal performance and longevity:

- Keep the device in a well-ventilated area to prevent overheating, although its fanless design aids in heat dissipation.
- Regularly clean the exterior of the switch with a soft, dry cloth to prevent dust accumulation.
- Avoid placing heavy objects on top of the switch.
- Ensure all cable connections are secure and undamaged.

5. TROUBLESHOOTING

If you encounter issues with your TL-SG105-M2 switch, consider the following:

- **No Power:** Check if the power adapter is securely connected to both the switch and the power outlet. Ensure the power outlet is functional.

- **No Link/Activity LED:** Verify that the Ethernet cables are correctly plugged into both the switch and the connected device. Try using a different Ethernet cable or connecting to a different port on the switch. Ensure the connected device is powered on and functioning correctly.
- **Slow Network Speed:** Confirm that your connected devices and cables support 2.5G speeds. While the switch supports auto-negotiation, older cables (e.g., Cat5) might limit performance. Ensure your router/modem is providing the expected internet speed.
- **Intermittent Connection:** Check for loose cable connections. Ensure the switch is not placed near sources of strong electromagnetic interference.

6. SPECIFICATIONS

Feature	Detail
Model Number	TL-SG105-M2
Number of Ports	5
Data Transfer Rate	25 Gigabits Per Second (Switching Capacity)
Interface Type	RJ45
Auto-Negotiation	100Mb/1G/2.5G
Case Material	Metal
Design	Fanless, Desktop/Wall-Mount
Product Dimensions	8.23" L x 4.96" W x 1.02" H
Item Weight	1.23 pounds (0.56 Kilograms)
Voltage	100-240V (Multi-voltage compatible)
Included Components	5-Port 2.5G Multi-Gigabit Desktop Switch TL-SG105-M2, Power Adapter, Installation Guide, Rubber Feet



Figure 6: Physical dimensions of the TL-SG105-M2 switch.

7. WARRANTY AND SUPPORT

The TP-Link TL-SG105-M2 is backed by an industry-leading 3-year warranty. For any technical assistance, setup guidance,

optimization, or security concerns, TP-Link offers free expert technical support.

Contact Support:

- **Phone:** (866) 225-8139 (6am to 6pm PST, Monday to Friday)
- **Web:** myproducts.tp-link.com/us
- **Email:** support.USA@tp-link.com