

TP-Link TL-SX105

TP-Link TL-SX105 5-Port 10G/Multi-Gig Unmanaged Ethernet Switch Instruction Manual

Model: TL-SX105

INTRODUCTION

The TP-Link TL-SX105 is a 5-port 10G/Multi-Gigabit unmanaged Ethernet switch designed to provide high-speed network connectivity for various devices. This manual provides essential information for setting up, operating, and maintaining your device to ensure optimal performance.

WHAT'S IN THE BOX

- TL-SX105 5-Port 10G/Multi-Gig Unmanaged Ethernet Switch
- Power Cord
- Installation Guide
- Rubber Feet

PRODUCT OVERVIEW



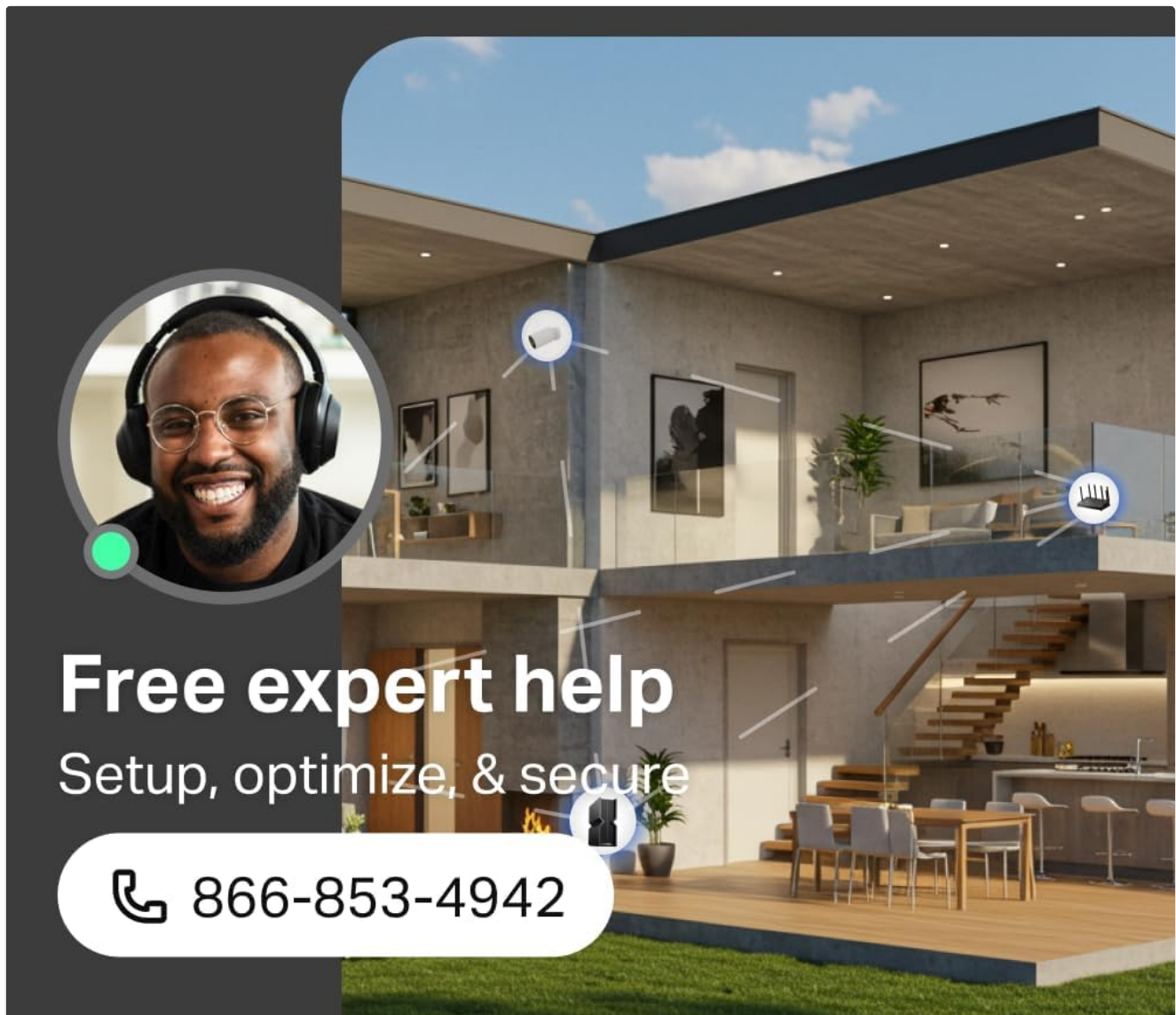
Figure 1: Front view of the TP-Link TL-SX105 switch, showing five RJ45 ports, a power LED, and port status LEDs.

The TL-SX105 features a sturdy metal casing for durability and efficient heat dissipation. It includes five RJ45 ports that support 10G/Multi-Gigabit speeds, along with LED indicators for power and port activity/speed.

Port Features

- **5x 10-Gigabit Ports:** Provides up to 100 Gbps of switching capacity for high-performance connections.

- **Auto-Negotiation:** Intelligently senses link speeds and adjusts between 5-speeds (100Mb/1G/2.5G/5G/10G) for optimal performance and compatibility with various devices.
- **Fanless Design:** Ensures quiet operation, suitable for noise-sensitive environments.



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Figure 2: Side view of the TP-Link TL-SX105, highlighting the ventilation holes for passive cooling.

SETUP

The TL-SX105 is designed for plug-and-play operation, requiring no software installation or configuration.

Step-by-Step Installation

1. **Connect to Power:** Plug the provided power adapter into the switch's power port and then into a power outlet. The Power LED on the switch should illuminate.
2. **Connect Devices:** Connect your network devices (e.g., computers, NAS, WiFi 6 APs, servers) to any of the RJ45 ports on the switch using Ethernet cables. The switch supports various speeds (100Mb/1G/2.5G/5G/10G) and will auto-negotiate the optimal speed for each connected device.
3. **Verify Connection:** Observe the LED indicators next to each port. A solid green or yellow light indicates a successful link, and blinking indicates activity. The color of the LED may indicate the link speed (refer to specifications for details).

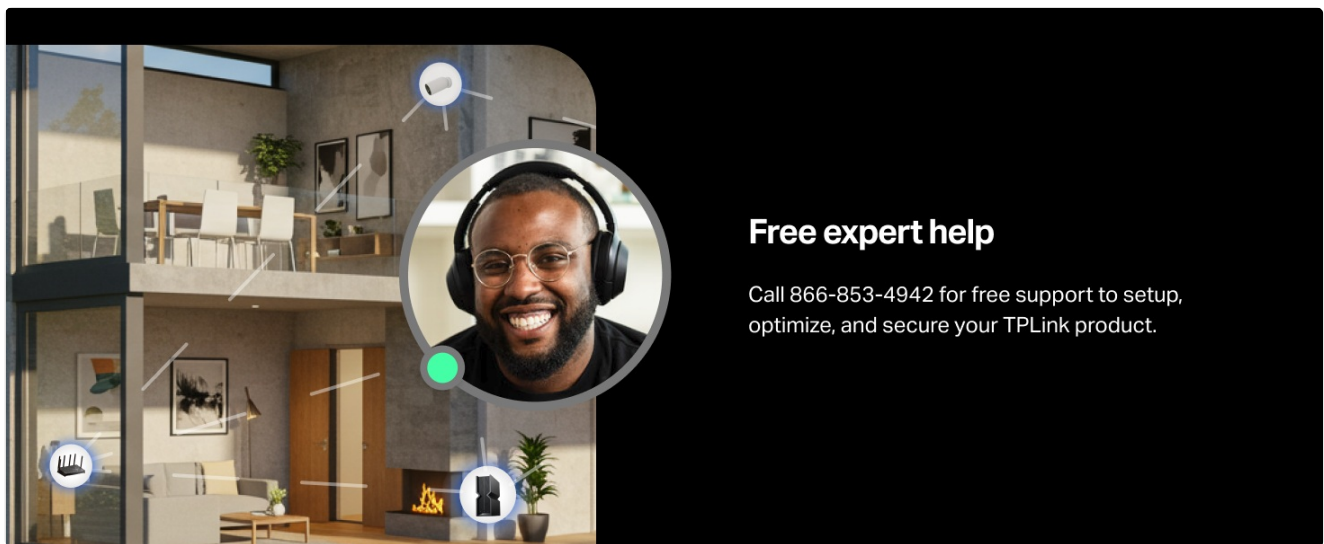


Figure 3: Visual guide for connecting the power adapter and network devices to the TL-SX105 switch.

Mounting Options

The TL-SX105 can be placed on a desktop or mounted on a wall. Use the included rubber feet for desktop placement to prevent slipping. For wall mounting, utilize the integrated mounting slots on the underside of the switch.



Figure 4: The TL-SX105 can be used on a desktop or securely mounted to a wall.

OPERATING INSTRUCTIONS

Once connected, the TL-SX105 operates automatically. It functions as an unmanaged switch, meaning it requires no user configuration for basic network extension.

Speed Auto-Negotiation

Each port on the TL-SX105 automatically detects the speed of the connected device and adjusts its operating speed accordingly. This ensures compatibility and optimal performance across devices with varying Ethernet standards (100Mbps, 1Gbps, 2.5Gbps, 5Gbps, 10Gbps).

LED Indicators

- **Power LED:** Indicates the power status of the switch.
- **Link/Act LEDs (per port):** Indicate the link status and network activity for each port. Refer to the product's detailed specifications or quick start guide for specific color/blink patterns indicating different speeds (e.g., 10G, 5G, 2.5G, 1G, 100M).

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Video 1: A brief product introduction to the TP-Link TL-SX105 switch, demonstrating its features and ease of use.

PERFORMANCE AND CONNECTIVITY

The TL-SX105 is designed to enhance network performance, especially for bandwidth-intensive applications.

- **High-Speed Data Transfer:** Facilitates rapid data transfer between connected devices, significantly reducing transfer times for large files to NAS devices or between high-performance workstations.
- **Optimized for Modern Networks:** Ideal for integrating 2.5G/5G/10G WiFi 6 Access Points, 10G NAS, 10G PCIe Adapters/NICs, 10G Servers, and gaming computers.
- **Flow Control:** IEEE 802.3X flow control ensures reliable data transfer by preventing packet loss during periods of high network traffic.



Figure 5: The TL-SX105 enables high-speed connections for devices like 10G NAS, servers, workstations, gaming computers, 8K video, and WiFi 6 APs.

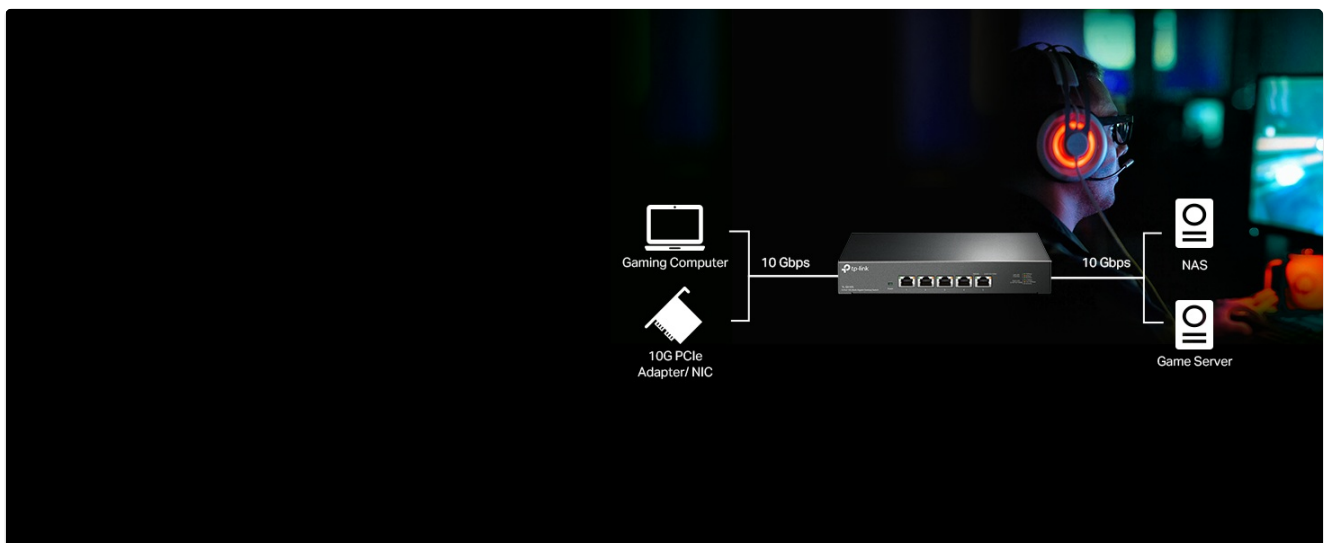


Figure 6: Illustrates how the TL-SX105 can significantly reduce data transfer times compared to a standard Gigabit switch.

MAINTENANCE

The TL-SX105 is designed for minimal maintenance. Follow these guidelines to ensure its longevity and optimal performance:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Avoid liquid cleaners or aerosols.
- **Ventilation:** Ensure the ventilation holes on the sides of the switch are not obstructed to allow for proper heat dissipation.
- **Cable Management:** Keep network cables organized to prevent strain on ports and improve airflow.
- **Power Cycle:** If the switch is unresponsive, disconnect the power adapter, wait for a few seconds, and then

reconnect it.

TROUBLESHOOTING

If you encounter issues with your TL-SX105 switch, try the following basic troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the switch and a working power outlet. Check if the power outlet is functional.
- **No Link/Activity:** Verify that Ethernet cables are securely connected to both the switch and the network device. Ensure the connected device is powered on and functioning correctly. Try using a different Ethernet cable.
- **Slow Speed:** Confirm that your connected devices and Ethernet cables (Cat5e or higher for multi-gig speeds) support the desired speeds. Ensure there are no bottlenecks elsewhere in your network (e.g., router, internet service provider).
- **Intermittent Connection:** Check for loose cable connections. Ensure the switch is placed in a well-ventilated area to prevent overheating.

SPECIFICATIONS

Feature	Detail
Model Number	TL-SX105
Number of Ports	5
Interface Type	RJ45
Data Transfer Rate	100Mbps / 1Gbps / 2.5Gbps / 5Gbps / 10Gbps (Auto-Negotiation)
Switching Capacity	100 Gbps
Case Material	Metal
Cooling	Fanless
Product Dimensions	8.9"L x 5.2"W x 0.98"H
Item Weight	2.53 pounds (1.15 Kilograms)
Included Components	TL-SX105, Power Cord, Installation Guide, Rubber Feet

WARRANTY AND SUPPORT

Warranty Information

The TP-Link TL-SX105 is backed by an industry-leading 3-year warranty, providing peace of mind for your investment.

Technical Support

For any technical assistance, setup guidance, optimization tips, or security concerns, please contact TP-Link's expert support team:

- **Phone:** (866) 225-8139 (Available Monday to Friday, 6am to 6pm PST)
- **Website:** myproducts.tp-link.com/us

- Email: support.USA@tp-link.com



Figure 7: TP-Link offers dedicated technical support for product assistance.

Related Documents - TL-SX105

	<p>TP-Link TL-SX105 5-Port 10G Multi-Gigabit Desktop Switch Installation Guide</p> <p>Installation guide for the TP-Link TL-SX105, a 5-port 10G Multi-Gigabit Desktop Switch. Learn about panel explanations, connections, specifications, and safety information.</p>
	<p>TP-Link TL-SX105 5-Port 10G Multi-Gigabit Desktop Switch Installation Guide</p> <p>Installation guide for the TP-Link TL-SX105 5-Port 10G Multi-Gigabit Desktop Switch, covering desktop and wall-mounting setup, connection diagrams, panel explanations, specifications, and safety information.</p>
	<p>TP-Link TL-SX105 5-Port 10G Multi-Gigabit Desktop Switch Installation Guide</p> <p>Comprehensive installation guide for the TP-Link TL-SX105, a 5-port 10G Multi-Gigabit Desktop Switch. Provides instructions on setup, connection, panel explanations, specifications, and answers frequently asked questions.</p>
	<p>TP-Link Business Switches and Routers: Products Guide 2022</p> <p>Explore TP-Link's comprehensive range of business switches and routers, designed for small and medium businesses. This guide covers JetStream L2+ Managed Switches, Easy Smart Switches, Unmanaged Switches, and Business Routers, highlighting features like PoE, 10G/2.5G connectivity, and Omada SDN integration for professional, reliable, and secure wired networking solutions.</p>
	<p>TP-Link Unmanaged Desktop PoE/PoE+ Switch Installation Guide</p> <p>This installation guide provides detailed instructions, LED explanations, switch feature descriptions, connection diagrams, FAQs, and technical specifications for TP-Link Unmanaged Desktop PoE/PoE+ Switches, including models TL-SF1008LP, TL-SF1008P, TL-SF1009P, and TL-SL1311MP.</p>



Wall Mounting Guide
Wall Mountable Switches

[TP-Link Wall Mounting Guide for Wall Mountable Switches](#)

A comprehensive guide detailing the wall mounting preparation, procedure, and specifications for various TP-Link wall mountable network switches.