

TP-Link TL-SG105

TP-Link TL-SG105 5-Port Gigabit Unmanaged Ethernet Switch

User Manual

INTRODUCTION

The TP-Link TL-SG105 is a 5-Port Gigabit Unmanaged Ethernet Switch designed to expand your network capacity with ease. Featuring plug-and-play functionality, a durable metal casing, and energy-efficient technology, it provides a reliable and quiet solution for home, gaming, and small business network needs. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your device.

PACKAGE CONTENTS

Please verify that all items are present in your package:

- TP-Link TL-SG105 5-Port 10/100/1000Mbps Desktop Switch
- Power Adapter
- Installation Guide

FEATURES

The TL-SG105 switch offers a range of features designed for optimal network performance and ease of use:

- **5 Gigabit Ports:** 5× 10/100/1000Mbps RJ45 Ports supporting Auto Negotiation and Auto MDI/MDIX for seamless network expansion.
- **Energy Efficiency:** Utilizes innovative energy-efficient technology to expand network capacity with reduced power consumption.
- **Reliable and Quiet Operation:** IEEE 802.3X flow control ensures reliable data transfer, and a fanless design guarantees quiet operation.
- **Plug and Play:** Simple setup with no software installation or configuration required.
- **Advanced Software Features:** Includes Port-based 802.1p/DSCP QoS and IGMP Snooping for traffic prioritization and high-quality video/voice data transmission.
- **Durable Metal Casing:** Sturdy metal case and desktop/wall-mounting design suitable for various environments.

SETUP

Setting up your TP-Link TL-SG105 switch is a straightforward plug-and-play process. No complex configuration is needed.

1. **Unpack the Switch:** Carefully remove the switch and its accessories from the packaging.
2. **Connect Power:** Connect the provided power adapter to the switch's power port and then plug the adapter into a standard electrical outlet. The Power LED on the switch should illuminate.
3. **Connect Ethernet Cables:** Connect your network devices (e.g., computer, gaming console, router, printer) to any of the 5 Gigabit Ethernet ports using standard RJ45 Ethernet cables. The Link/Act LEDs for connected ports will light up, indicating an active connection.

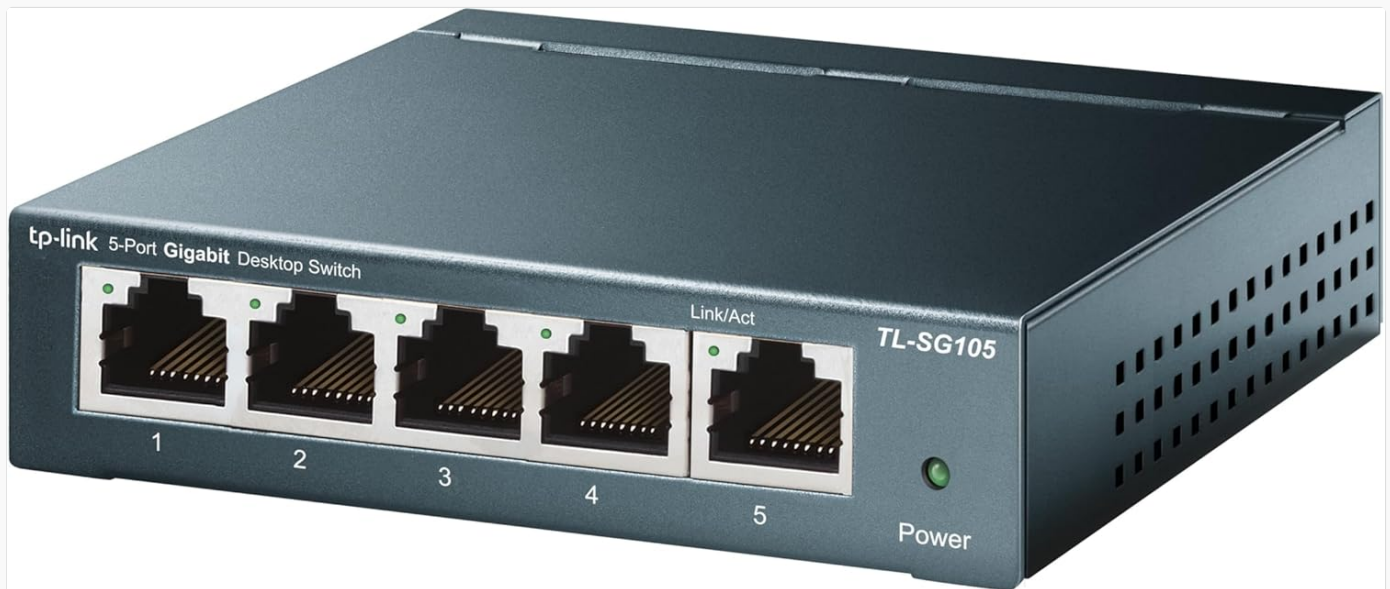


Figure 1: Front view of the TL-SG105 switch, showing the five Gigabit Ethernet ports and the power indicator.

Need More Ports? No Problem.

Connect to a WiFi-emitting device and quickly add additional Ethernet ports to your mesh system, routers, range extenders and even switches.

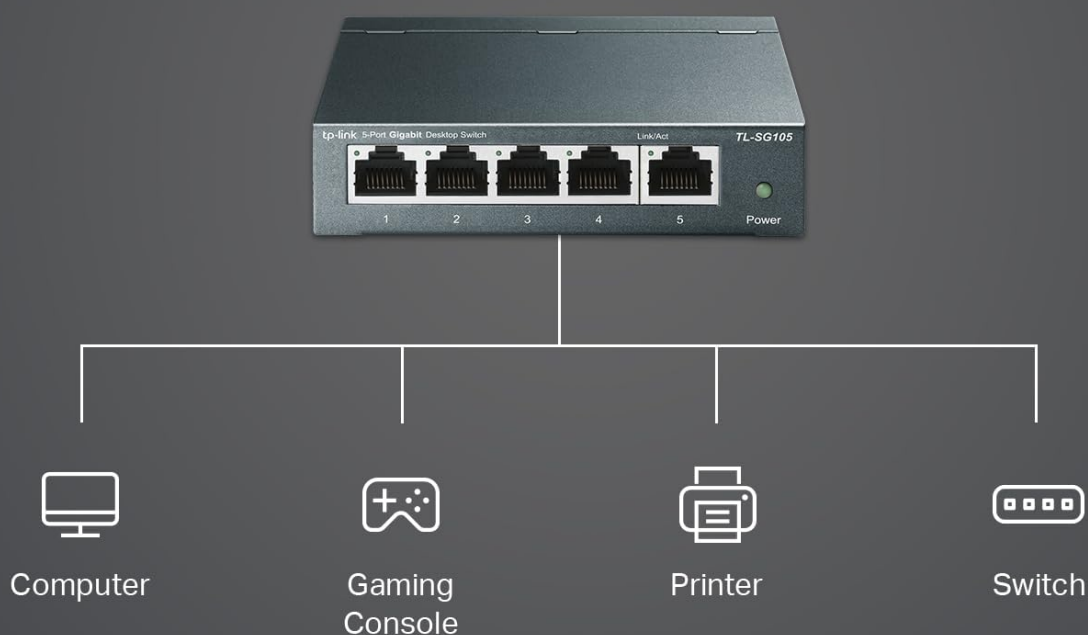


Figure 2: Connection diagram for the TL-SG105, demonstrating how to expand network ports for multiple devices.

Your switch is now ready for use. It will automatically detect the speed and duplex mode of connected devices.

OPERATING

The TL-SG105 is an unmanaged switch, meaning it operates automatically without requiring user configuration. Once powered on and connected, it functions as a central connection point for your wired network devices.

LED Indicators

LED	Status	Indication
Power	On	The switch is powered on.
Link/Act (Per Port)	On	A device is connected to the corresponding port.

LED	Status	Indication
	Flashing	Data is being transmitted or received through the port.
	Off	No device is connected or the connected device is off.

Gigabit Ports & Premium Design for Greater Reliability

Sturdy metal casing with 5X Gigabit shielded ports deliver more reliable speeds, greater durability and block static interference.



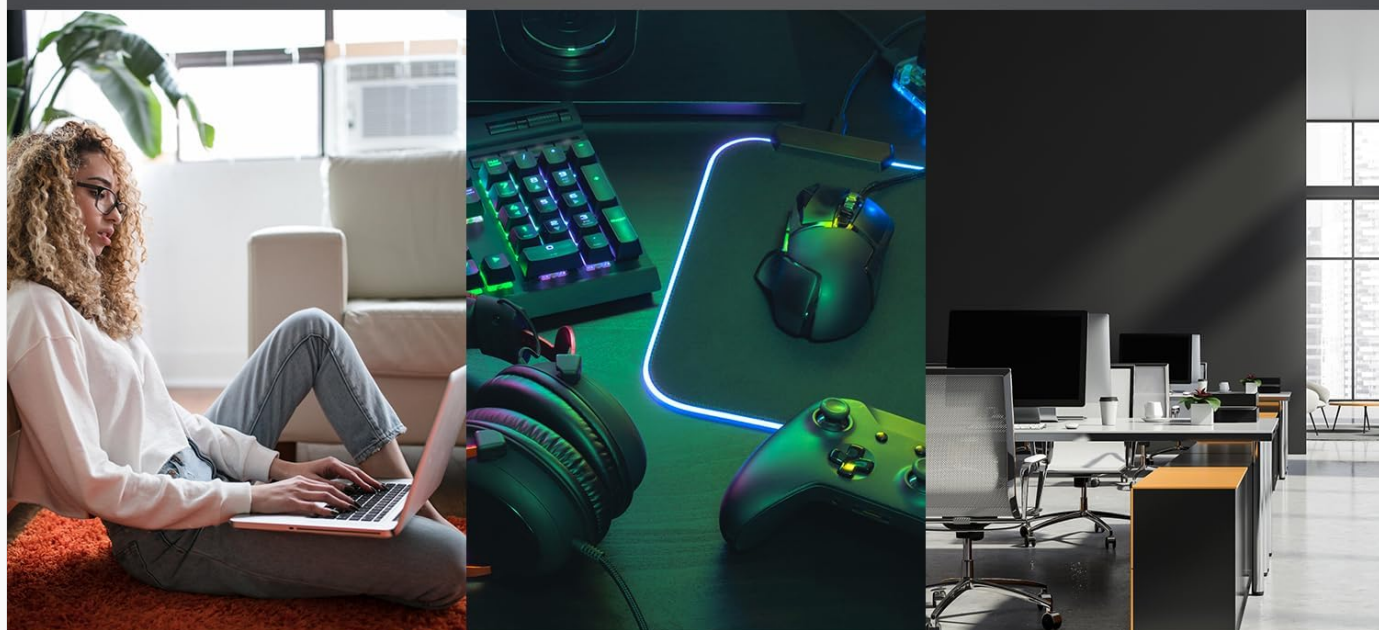
Figure 3: Gigabit Ports and Premium Design for Greater Reliability.

Application Scenarios

The TL-SG105 is versatile and can be used in various environments:

- **Home:** Expand your home network to connect multiple wired devices like smart TVs, gaming consoles, and PCs.
- **Gaming:** Provides stable, low-latency connections essential for online gaming.
- **Business:** Suitable for small office environments requiring additional network ports for computers, printers, and other office equipment.

Multiple Application Scenarios



Home

Expand your home network easily when you need additional ports

Gaming

Perfect for desktop and entertainment setups

Business

Use in a wide array of business uses

Figure 4: Multiple Application Scenarios for the TL-SG105 switch.

Energy Saving Features

The TL-SG105 incorporates Green Ethernet technology, which automatically adjusts power consumption based on cable length and link status, helping to save energy.

Go Green with Your Ethernet

TP-Link's latest generation of Unmanaged Switches make use of innovative energy-saving technologies.



Green Tech



Energy
conversion



Figure 5: Go Green with Your Ethernet - Energy-saving features.

Advanced Functions

While unmanaged, the TL-SG105 includes advanced features for optimized performance:

- **QoS (Quality of Service):** Port-based 802.1p/DSCP QoS prioritizes traffic, ensuring smooth performance for bandwidth-sensitive applications like video streaming and online gaming.
- **IGMP Snooping:** Optimizes multicast traffic delivery, which is beneficial for IPTV and other multicast applications, preventing unnecessary traffic flooding.

Advanced Functions for Higher Performance

IEEE 802.3x flow Control provides reliable data transfer.
802.1p and DSCP QoS enables a Lag-Free Experience.
IGMP Snooping optimizes multicast applications.



QoS

For Fluent Online Experience



IGMP Snooping

Traffic Optimization for IPTV



Figure 6: Advanced Functions for Higher Performance.

MAINTENANCE

To ensure the longevity and optimal performance of your TL-SG105 switch, follow these simple 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:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid cleaners or aerosol sprays.
- **Power:** Always use the provided power adapter. Disconnect power during electrical storms or when the device is not in use for extended periods.
- **Environment:** Avoid exposing the switch to extreme temperatures, humidity, or direct sunlight. The fanless design means it operates silently and requires less maintenance related to moving parts.

TROUBLESHOOTING

If you encounter issues with your TL-SG105 switch, refer to the following common troubleshooting steps:

No Power

- Ensure the power adapter is securely connected to the switch and a working power outlet.
- Verify that the power outlet is functional by plugging in another device.

No Link/Activity on a Port

- Check that the Ethernet cable is securely plugged into both the switch port and the connected device.
- Ensure the connected device is powered on and functioning correctly.
- Try a different Ethernet cable to rule out a faulty cable.
- Test with a different port on the switch.

Slow Network Speed

- Ensure all connected devices and cables support Gigabit Ethernet (Cat5e or higher cables are recommended for Gigabit speeds).
- Check for excessive network traffic or bandwidth-intensive applications running on your network.
- Restart the switch and connected devices.

SPECIFICATIONS

Attribute	Detail
Model Number	TL-SG105
Switch Type	Unmanaged, Plug and Play
Number of Ports	5
Interface Type	5 10/100/1000Mbps RJ45 Ports, Auto-Negotiation, Auto-MDI/MDIX
Data Transfer Rate	1000 Mbps (Gigabit)
Product Dimensions (L x W x H)	3.94" x 3.85" x 0.98" (100mm x 98mm x 25mm)
Item Weight	0.22 Kilograms (7.7 ounces)
Case Material	Metal
Power Consumption (On-mode)	2.4 watts
Operating Temperature	00C to 400C (320F to 1040F)
Storage Temperature	-400C to 700C (-400F to 1580F)
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 90% non-condensing
Certifications	CE, FCC, RoHS

WARRANTY

The TP-Link TL-SG105 5-Port Gigabit Unmanaged Ethernet Switch is backed by an industry-leading 3-year warranty.

This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

SUPPORT

For technical assistance, product information, or troubleshooting beyond this manual, please contact TP-Link customer support. Free technical support is available from 6 AM to 6 PM PST, Monday to Friday.

You can also find additional resources, including the full user manual and installation guides, on the official TP-Link website or through the following links:

- [Installation Manual \(PDF\)](#)
- [User Manual \(PDF\)](#)

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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