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› TP-Link TL-SG108 8 Port Gigabit Unmanaged Ethernet Network Switch User Manual

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MODEL: TL-SG108

Introduction

The TP-Link TL-SG108 is an 8-port Gigabit unmanaged Ethernet network switch designed to expand your network capacity with ease. Featuring a durable metal casing, this switch offers superior reliability, heat dissipation, and EMI protection. It is a plug-and-play device, requiring no configuration, making it ideal for home and small office network expansion. The TL-SG108 incorporates energy-efficient technology and advanced software features like QoS and IGMP Snooping for optimized performance.

Package Contents

- TP-Link TL-SG108 8-Port Gigabit Unmanaged Switch
- Power Adapter
- Installation Guide

Product Overview

The TL-SG108 features eight RJ45 ports for network connections and a power LED indicator. Its compact, fanless metal design ensures quiet operation and enhanced durability.



Figure 1: Front view of the TL-SG108 switch, showing the eight Gigabit Ethernet ports and the power indicator LED.

Gigabit Ports & Premium Design for Greater Reliability

Sturdy metal casing with 8X Gigabit shielded ports deliver more reliable speeds, greater durability and block static interference.



Figure 2: Illustration emphasizing the robust metal casing and shielded Gigabit ports of the TL-SG108, designed for reliability and static interference blocking.



Figure 3: Physical dimensions of the TL-SG108 switch, measuring 6.22" L x 3.98" W x 0.98" H.

Setup

The TL-SG108 is a plug-and-play device, requiring no software installation or configuration. Follow these simple steps to set up your switch:

1. Connect the provided power adapter to the switch's power port and then to a power outlet. The Power LED on the switch will illuminate.
2. Connect your network devices (e.g., computer, router, gaming console, smart TV, printer) to any of the RJ45 ports (1-8) on the switch using Ethernet cables.
3. The corresponding Link/Act LED for each connected port will light up, indicating a successful connection.

Need More Ports? No Problem.

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



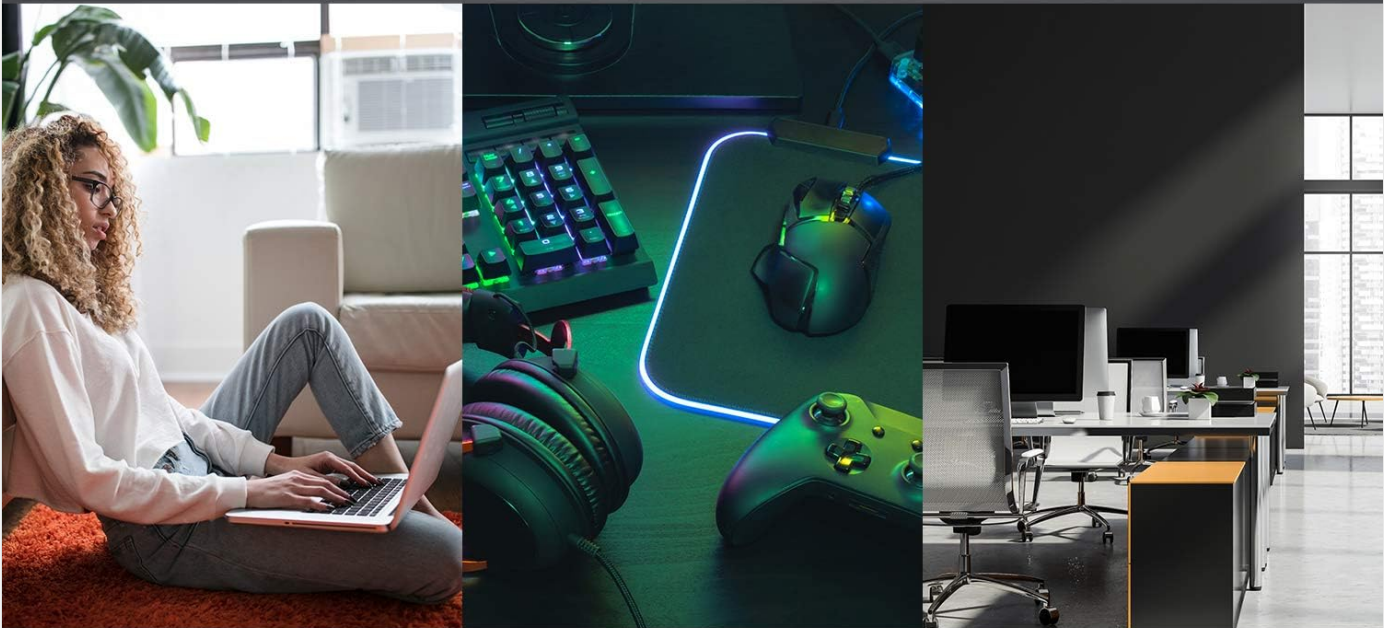
Figure 4: Connection diagram for the TL-SG108, illustrating how to expand your network by connecting various devices.

Operating

Once connected, the TL-SG108 operates automatically. It is an unmanaged switch, meaning it does not require any software configuration or management interface. It automatically detects network speed and cable type (Auto MDI/MDIX). The switch supports advanced features to optimize network performance:

- **IEEE 802.3x Flow Control:** Ensures reliable data transfer by managing network congestion.
- **Port-based 802.1p/DSCP QoS:** Prioritizes traffic to guarantee high quality for video or voice data transmission.
- **IGMP Snooping:** Optimizes multicast applications, such as IPTV, by efficiently managing multicast traffic.
- **Loop Prevention:** Features a dedicated button to monitor and address loop-related issues, preventing network disruptions.

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 5: Visual representation of the advanced features like QoS and IGMP Snooping that enhance the switch's performance for various applications.

The TL-SG108 also incorporates energy-efficient technology to reduce power consumption, automatically adjusting power usage based on cable length and link status.

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 6: The TL-SG108's commitment to energy efficiency through Green Tech and smart energy conversion.

Maintenance

To ensure optimal performance and longevity of your TL-SG108 switch, consider the following maintenance tips:

- **Placement:** Place the switch in a well-ventilated area to prevent overheating. Avoid placing it near heat sources or in direct sunlight.
- **Cleaning:** Regularly clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Cable Management:** Ensure network cables are neatly organized and not excessively bent or tangled, which can affect performance.
- **Power Supply:** Use only the power adapter provided with the device.

Troubleshooting

If you encounter issues with your TL-SG108 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:** If a port's Link/Act LED is off, check the Ethernet cable connection between the switch and the connected device. Try a different port or cable. Ensure the connected device is powered on and functioning correctly.
- **Slow Network Speed:** Verify that all connected devices and cables support Gigabit Ethernet (Cat5e or higher). Ensure there are no excessive network loops (though the switch has loop prevention, check for misconfigurations).
- **Intermittent Connection:** Check for loose cable connections. Ensure the switch is not placed in an area with high electromagnetic interference.

For more detailed troubleshooting or advanced issues, please refer to the comprehensive User Guide available as a PDF document or contact TP-Link technical support.

Specifications

Feature	Specification
Switch Type	Unmanaged
Number of Ports	8 x 10/100/1000Mbps RJ45 Ports
Product Dimensions (L x W x H)	6.22" x 3.98" x 0.98" (158 x 101 x 25 mm)
Item Weight	13.8 ounces (391 g)
Case Material	Metal
Voltage	5 Volts
Maximum Power Consumption	2.77 Watts
Operating Temperature	00C to 400C (320F to 1040F)
Data Transfer Rate	142.8 Megabits Per Second (theoretical max for 100Mbps, Gigabit is 1000Mbps)
Interface Type	RJ45

Warranty and Support

The TP-Link TL-SG108 is backed by an industry-leading 3-year warranty. Free technical support is available from 6 AM to 6 PM PST, Monday to Friday.

For additional resources, including the full User Guide and Installation Manual, please visit the official TP-Link support website or refer to the documents provided:

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

