TP-Link LS108G

TP-Link LS108G 8-Port Gigabit Desktop Switch User Manual

Model: LS108G

1. Introduction

The TP-Link LS108G is an 8-Port Gigabit Desktop Switch designed to expand your network capacity with ease. Featuring eight 10/100/1000 Mbps auto-negotiation RJ45 ports, it supports Auto-MDI/MDIX, eliminating the need to worry about cable type. This unmanaged switch offers a simple plug-and-play solution for home and small office networks, providing reliable and high-speed wired connections for devices such as computers, printers, IP cameras, and game consoles. Its robust metal casing ensures durability, and its Green Technology helps save power.

2. Package Contents

Verify that your package contains the following items:

- TP-Link LS108G 8-Port Gigabit Desktop Switch
- Power Adapter
- User Manual

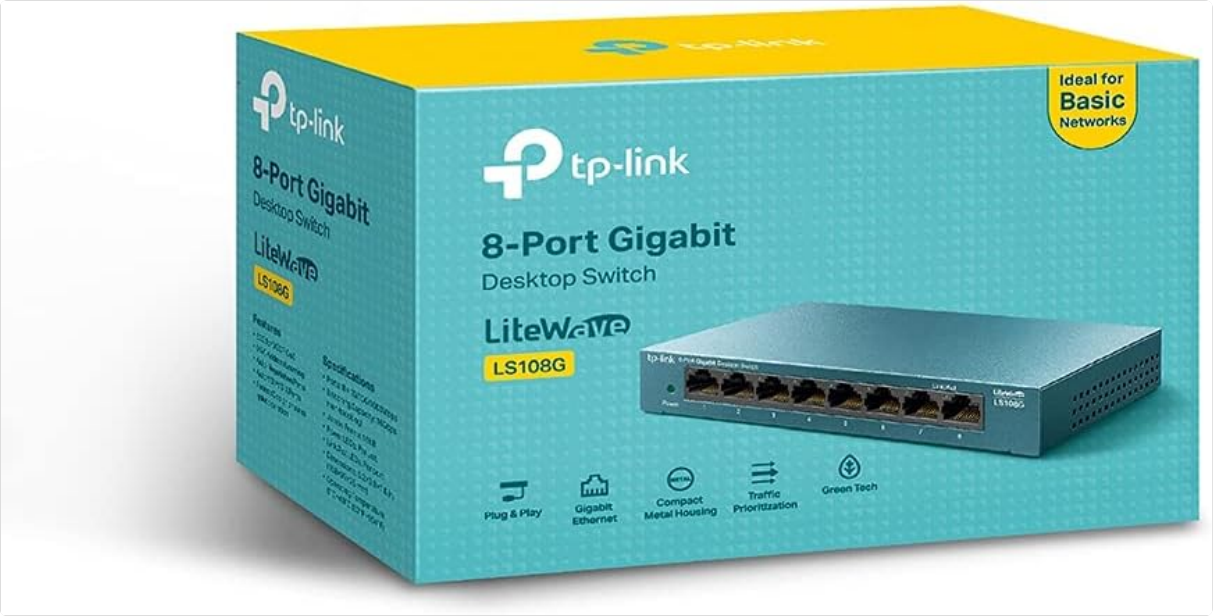

Image: The retail box for the TP-Link LS108G switch, indicating its contents.

3. Physical Overview

3.1 Front Panel

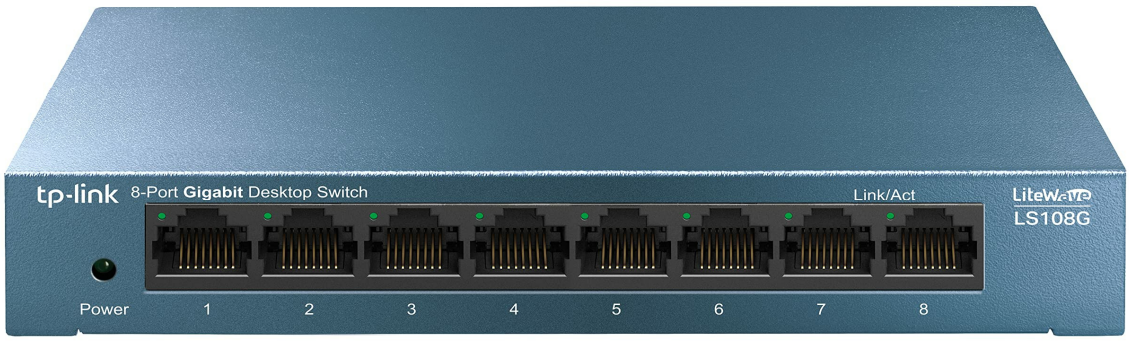

Image: Front view of the TP-Link LS108G switch, showing the Power LED, eight Link/Act LEDs, and eight RJ45 Gigabit Ethernet ports labeled 1 through 8.

- **Power LED:** Indicates the power status of the switch. On when powered, off when not.
- **Link/Act LEDs (1-8):** Indicates the connection status and activity for each corresponding port.
    - *On:* A device is connected to the port.
    - *Flashing:* Data is being transmitted or received through the port.
    - *Off:* No device is connected or the connected device is off.
- **RJ45 Ports (1-8):** Eight 10/100/1000 Mbps auto-negotiation ports for connecting network devices.

3.2 Rear Panel

Image: Rear view of the TP-Link LS108G switch, displaying the power input port.

- **Power Input:** Connect the provided power adapter here.
- **Kensington Security Slot:** A security slot for attaching a cable lock to prevent theft.

3.3 Casing Material

Image: A close-up view highlighting the durable, high-quality metal casing of the TP-Link LS108G switch.

The LS108G features a robust metal casing, providing enhanced durability and heat dissipation for stable operation.

4. Setup

The TP-Link LS108G is a plug-and-play device, requiring no software configuration. Follow these steps to set up your switch:

1. **Placement:** Place the switch on a stable, flat surface or mount it to a wall (mounting hardware not

included). Ensure adequate ventilation around the device.

2. **Connect Devices:** Connect your network devices (e.g., computer, router, network printer, game console) to any of the 8 RJ45 ports on the front panel using Ethernet cables.
3. **Power On:** Connect the provided power adapter to the switch's power input port on the rear panel, then plug the other end into a standard electrical outlet.
4. **Verify Connection:** Once powered on, the Power LED should illuminate. The Link/Act LEDs for connected ports should light up, indicating a successful connection. If a device is actively transmitting data, the corresponding Link/Act LED will flash.

Image: A diagram illustrating how the LS108G switch connects to a router and various devices like game consoles, IPTV, and computers in a home or office network setup.

5. Operating Instructions

The LS108G is an unmanaged switch, meaning it operates automatically without requiring user configuration. Once connected and powered on, it will facilitate network communication between all connected devices.

- **Auto-Negotiation:** Each port automatically detects the link speed of the connected network device (10, 100, or 1000 Mbps) and adjusts for compatibility and optimal performance.
- **Auto-MDI/MDIX:** This feature eliminates the need for crossover cables. You can use either straight-

through or crossover Ethernet cables for any connection.

- **Full Duplex/Half Duplex:** The switch supports both full-duplex and half-duplex modes, automatically negotiating the best mode for each connection.
- **Green Technology:** The switch incorporates power-saving features, such as adjusting power consumption based on link status and cable length, reducing overall energy use.

Image: Illustration of TP-Link's Green Technology, emphasizing power saving features of the switch.

6. Maintenance

To ensure optimal performance and longevity of your TP-Link LS108G switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure the switch is placed in a well-ventilated area to prevent overheating. Do not block the ventilation holes.
- **Power Cycle:** If you experience network issues, try power cycling the switch by unplugging the power adapter, waiting 10 seconds, and then plugging it back in.
- **Cable Management:** Keep Ethernet cables neatly organized and avoid excessive bending or crimping, which can degrade performance.

- **Environmental Conditions:** Operate the switch within its specified temperature and humidity ranges (refer to specifications).

7. Troubleshooting

If you encounter issues with your LS108G switch, refer to the following common problems and solutions:

Problem	Possible Solution
Power LED is off.	◦ Ensure the power adapter is securely connected to the switch and a working electrical outlet. ◦ Verify the power outlet is functional by plugging in another device.
Link/Act LED is off for a connected device.	◦ Check if the Ethernet cable is securely plugged into both the switch port and the device. ◦ Ensure the connected device is powered on and its network adapter is functioning correctly. ◦ Try a different Ethernet cable. ◦ Try connecting the device to a different port on the switch.
Slow network speed.	◦ Ensure all connected devices and cables support Gigabit Ethernet (1000 Mbps) for optimal speed. ◦ Check for excessive network traffic or bandwidth-intensive applications running on connected devices. ◦ Verify that the cable length is within specifications (typically up to 100 meters for Ethernet). ◦ Power cycle the switch and connected devices.
Intermittent connection.	◦ Check for loose cable connections. ◦ Ensure the switch is not overheating; provide adequate ventilation. ◦ Test with different Ethernet cables. ◦ Ensure the power adapter is stable and not experiencing interruptions.

8. Specifications

Feature	Detail
Model	LS108G
Ports	8 × 10/100/1000 Mbps Auto-Negotiation RJ45 Ports (Auto MDI/MDIX)
Data Transfer Rate	1000 Mbps (Gigabit Ethernet)
Standards and Protocols	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x
Power Supply	External Power Adapter (Output: 9VDC / 0.6A)
Dimensions (W x D x H)	6.3 x 3.94 x 0.98 inches (160 x 100 x 25 mm)
Weight	12.5 ounces (354 grams)

Feature	Detail
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
Certifications	CE, FCC, RoHS

9. Warranty Information

TP-Link products come with a limited warranty. The specific terms and duration of the warranty may vary by region and product type. Please refer to the official TP-Link website or the warranty card included with your product for detailed warranty information.
To register your product or to view the full warranty policy, visit: TP-Link Warranty Page

10. Technical Support

For technical support, firmware updates, and frequently asked questions (FAQs), please visit the official TP-Link support website. You can find comprehensive resources and contact information for customer service.
TP-Link Support Website: https://www.tp-link.com/support/
When contacting support, please have your product model (LS108G) and serial number ready.