TP-Link TL-SG105E

TP-Link TL-SG105E 5-Port Gigabit Easy Smart Switch User Manual

Model: TL-SG105E

1. Introduction

The TP-Link TL-SG105E is a 5-Port Gigabit Easy Smart Switch designed for small and medium business networks requiring simple network management. This device allows for efficient traffic monitoring, optimization, and network segmentation. It features energy-efficient technology for reduced power consumption.



Image 1.1: Front view of the TP-Link TL-SG105E 5-Port Gigabit Easy Smart Switch, showing five RJ45 Ethernet ports and a power LED indicator.

2. Package Contents

Verify that your package contains the following items:

- TL-SG105E 5-Port Gigabit Easy Smart Switch

- Power Adapter
- Installation Guide
- Rubber Feet

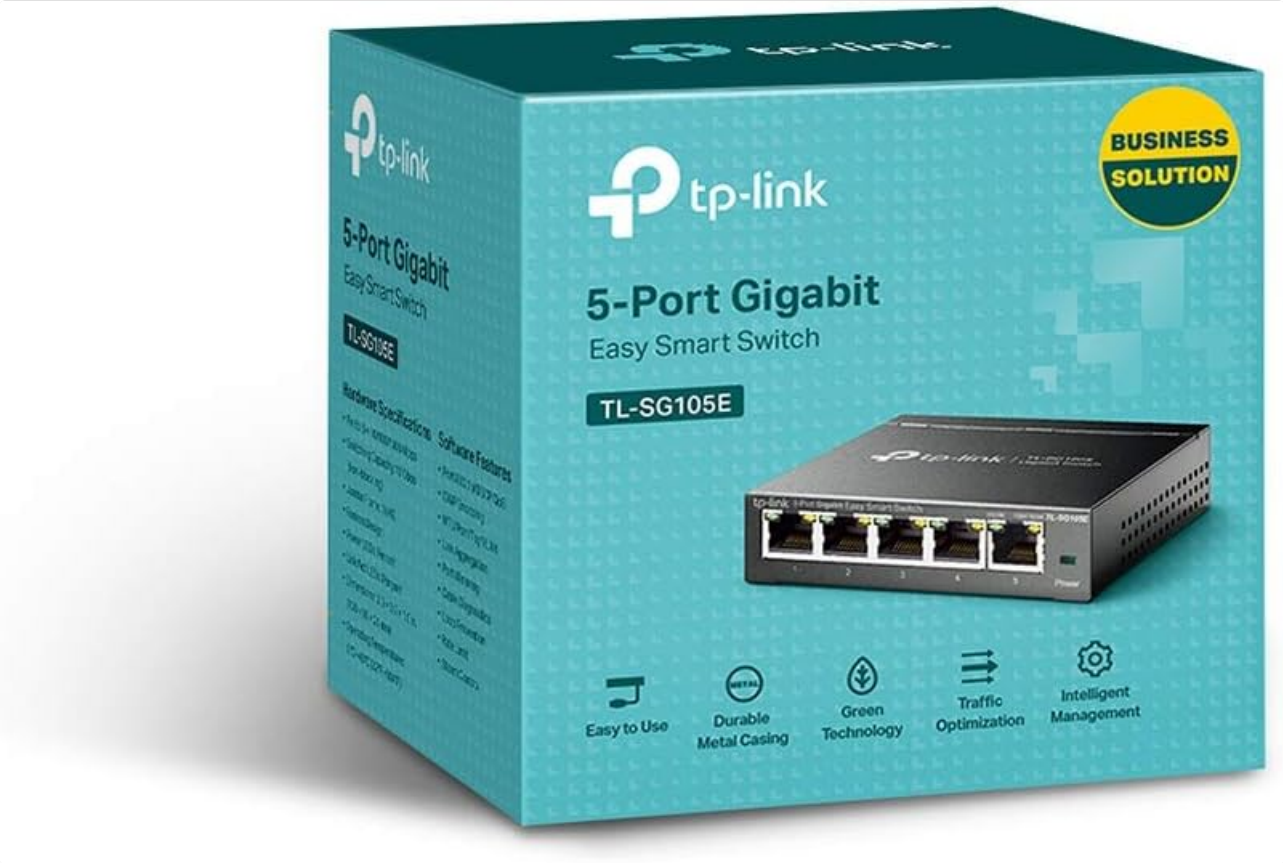


Image 2.1: The retail packaging for the TP-Link TL-SG105E, indicating the product model and key features.

3. Physical Overview

3.1 Front Panel

The front panel features five 10/100/1000Mbps RJ45 ports with AUTO Negotiation and AUTO MDI/MDIX capabilities, along with a Power LED indicator.



Image 3.1: Detailed front view of the switch, highlighting the five numbered Gigabit Ethernet ports and the Power LED.

3.2 Rear Panel

The rear panel includes the power input port, a reset button, and a Kensington lock slot for security.



Image 3.2: Rear view of the switch, showing the power input (5V ⎓ 0.6A), reset button, and security lock slot.

4. Setup and Installation

4.1 Desktop Placement

The TL-SG105E is designed for desktop use. Place the switch on a flat, stable surface. Ensure adequate ventilation around the device.

4.2 Wall-Mounting

The switch can also be wall-mounted. Use appropriate screws and anchors (not included) to secure the device to a wall. Refer to the installation guide for detailed instructions on wall-mounting.

4.3 Connecting the Switch (Plug and Play)

The TL-SG105E supports plug-and-play functionality for basic network expansion. Follow these steps:

1. Connect the power adapter to the switch and plug it into a power outlet.
2. Connect your router or modem to any of the switch's Ethernet ports using an Ethernet cable.
3. Connect your network devices (e.g., computers, printers, IPTV boxes) to the remaining Ethernet ports on the switch.



Image 4.1: A diagram showing how to connect the TL-SG105E switch to a router and various network devices like IPTV, printer, and computer for immediate use.

5. Operation and Management

The TL-SG105E is an Easy Smart Switch, offering advanced management features beyond basic plug-and-play. These features can be configured via a web interface or free software utility.

5.1 Network Management Features

- **Port Mirroring:** Allows monitoring of network traffic by sending copies of packets from one port to another.
- **Loop Prevention:** Helps prevent network loops that can cause broadcast storms and network outages.
- **Cable Diagnostics:** Provides information on the status of connected Ethernet cables, helping to identify cable faults.
- **Link Aggregation:** Combines multiple physical links into a single logical link for increased bandwidth and redundancy.

5.2 Traffic Optimization

- **Quality of Service (QoS):** Prioritizes network traffic to ensure smooth performance for latency-sensitive applications like voice and video. Both port-based and tag-based QoS are supported.
- **IGMP Snooping:** Optimizes multicast traffic delivery, enhancing performance for applications like IPTV.



Image 5.1: An illustration demonstrating how QoS and IGMP Snooping improve the experience for streaming TV series, music, and gaming by prioritizing relevant traffic.

5.3 Network Segmentation (VLAN)

The switch supports VLANs (Virtual Local Area Networks) to segment network traffic, improving security and management. Up to 32 VLANs can be configured simultaneously out of 4K VLAN IDs.

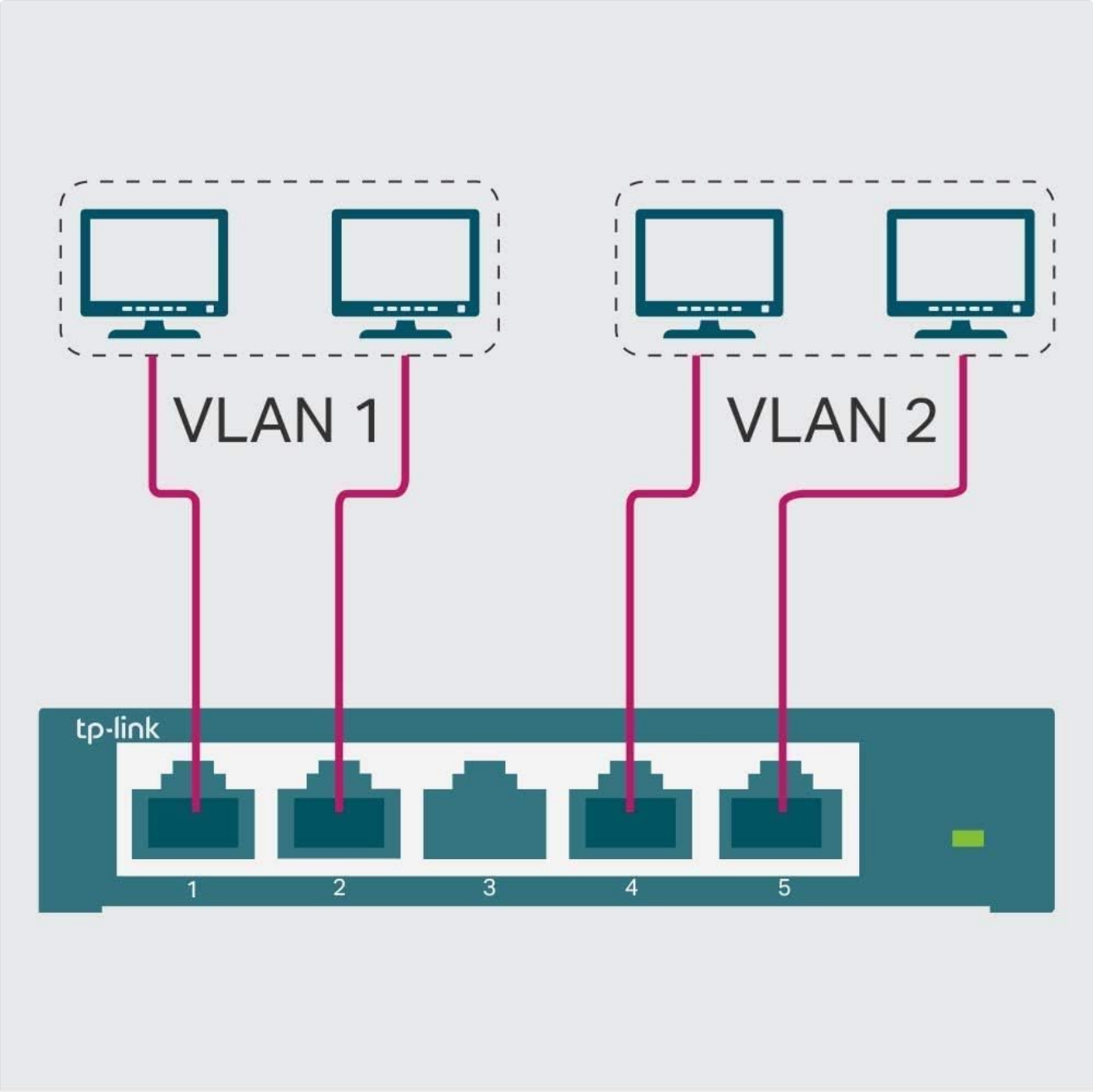


Image 5.2: A visual representation of VLANs, showing how devices connected to different ports can be logically separated into VLAN 1 and VLAN 2, even when connected to the same physical switch.

5.4 Accessing the Management Interface

To access the switch's management interface, you will typically use a dedicated utility provided by TP-Link or a web browser. Refer to the official TP-Link support website for the latest software and detailed configuration guides.

6. Maintenance and Care

6.1 General Care

- Keep the device in a cool, dry place, away from direct sunlight and heat sources.
- Ensure proper ventilation to prevent overheating. The fanless design contributes to silent operation and reduced dust accumulation.
- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.

6.2 Energy Efficiency

The TL-SG105E incorporates innovative energy-efficient technology. It automatically adjusts power consumption based on link status and cable length, helping to reduce operational costs and environmental impact.

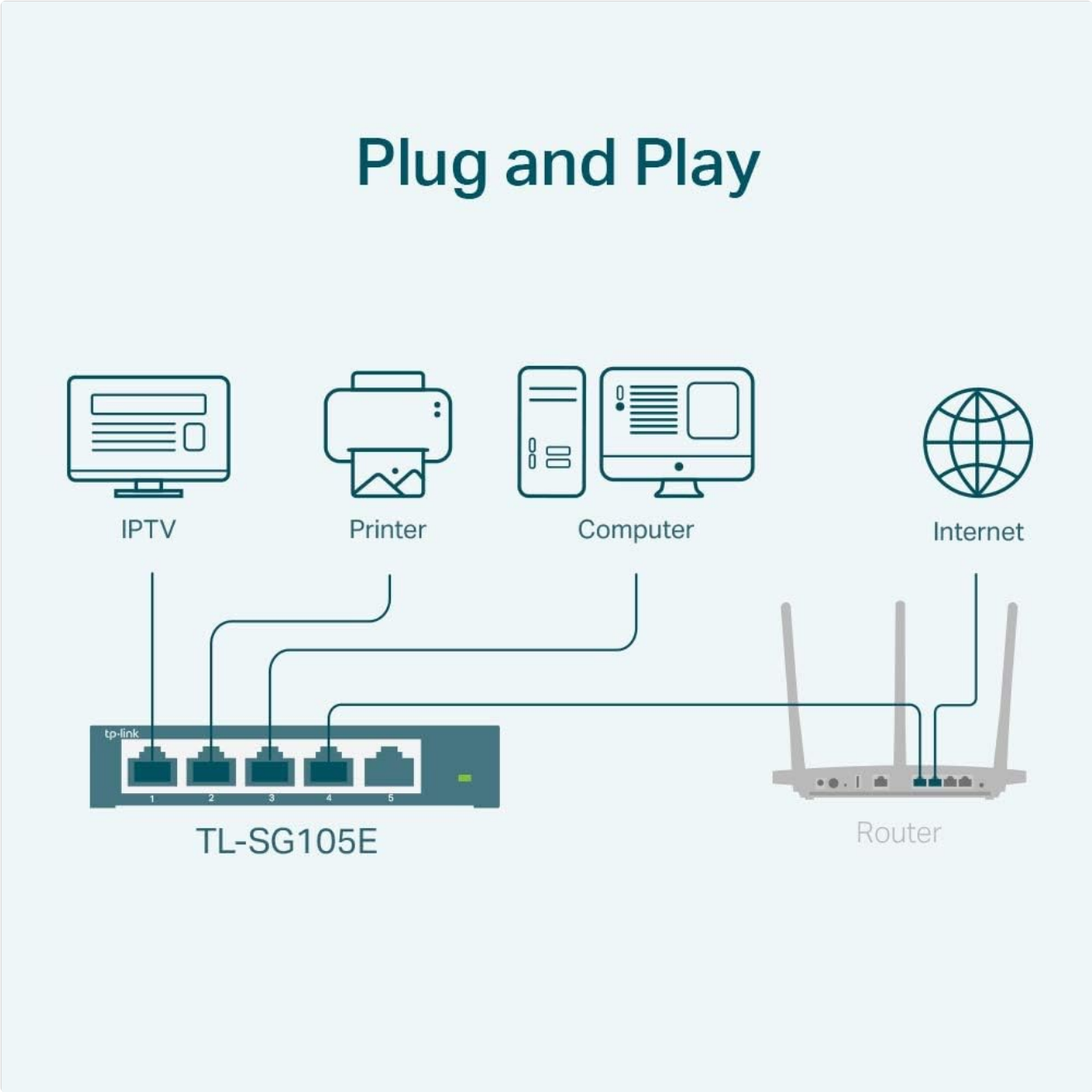


Image 6.1: The TL-SG105E switch, emphasizing its durable metal casing, compact desktop design, wall-mounting capability, and fanless, silent operation, alongside the "Green TP-Link" logo.

7. Troubleshooting

If you encounter issues with your TL-SG105E switch, consider the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to the switch and a working power outlet. Check the power LED on the front panel.
- **No Link/Connectivity:**
    - Verify that Ethernet cables are securely connected to both the switch and the connected device.
    - Check the status of the link/activity LEDs on the switch ports. If they are off, try a different cable or port.
    - Ensure the connected device is powered on and its network adapter is functioning correctly.
    - Use the switch's cable diagnostics feature (via the management interface) to check for cable faults.

- **Slow Network Speed:**
  - Ensure all connected devices and cables support Gigabit Ethernet for optimal performance.
  - Check for network loops using the loop prevention feature in the management interface.
  - Review QoS settings if specific applications are experiencing slow performance.
  - If using the management utility, ensure proper configuration settings are applied, as incorrect settings can affect performance.
- **Accessing Management Interface:** If you cannot access the web interface or utility, ensure your computer is on the same network segment as the switch and that you are using the correct IP address or discovery tool.
- **Resetting the Switch:** If issues persist, you may perform a factory reset by pressing and holding the reset button on the rear panel for approximately 5-10 seconds while the device is powered on. This will revert all settings to their factory defaults.

8. Specifications

Feature	Detail
Model	TL-SG105E
Dimensions (L x W x H)	3.9" x 3.9" x 1"
Item Weight	0.43 Kilograms (15.1 ounces)
Interface Type	5 10/100/1000Mbps RJ45 Ports (AUTO Negotiation/AUTO MDI/MDIX)
Data Transfer Rate	1 Gigabits Per Second
Voltage	220 Volts
Current Rating	1 Amps
Upper Temperature Rating	40 Degrees Celsius
Compatible Devices	Desktop
Included Components	TL-SG105E, Power Adapter, Installation Guide, Rubber Feet

9. Warranty and Support

9.1 Warranty Information

The TP-Link TL-SG105E is backed by an industry-leading 3-year warranty. Please retain your proof of purchase for warranty claims.

9.2 Technical Support

Free technical support is available from 6 AM to 6 PM PST, Monday to Friday. For further assistance, visit the official TP-Link support website or contact their customer service.
Official TP-Link Support: https://www.tp-link.com/us/support/

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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

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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