

TP-Link TL-SG105PE

User Manual

TP-LINK TL-SG105PE EASY SMART GIGABIT 5-PORT SWITCH WITH 4 PoE+ PORTS (VER.2.0)

1. Introduction

The TP-Link TL-SG105PE is a 5-port Gigabit Easy Smart Switch designed to expand your network capacity with Power over Ethernet (PoE) capabilities. It features four PoE+ ports, allowing you to power compatible devices such as IP cameras, IP phones, and wireless access points directly through the Ethernet cable, simplifying network deployment and reducing cable clutter. This switch is ideal for small office and home network environments requiring reliable and efficient data and power transmission.

Package Contents:

- TP-Link TL-SG105PE Switch
- Power Adapter
- User Guide

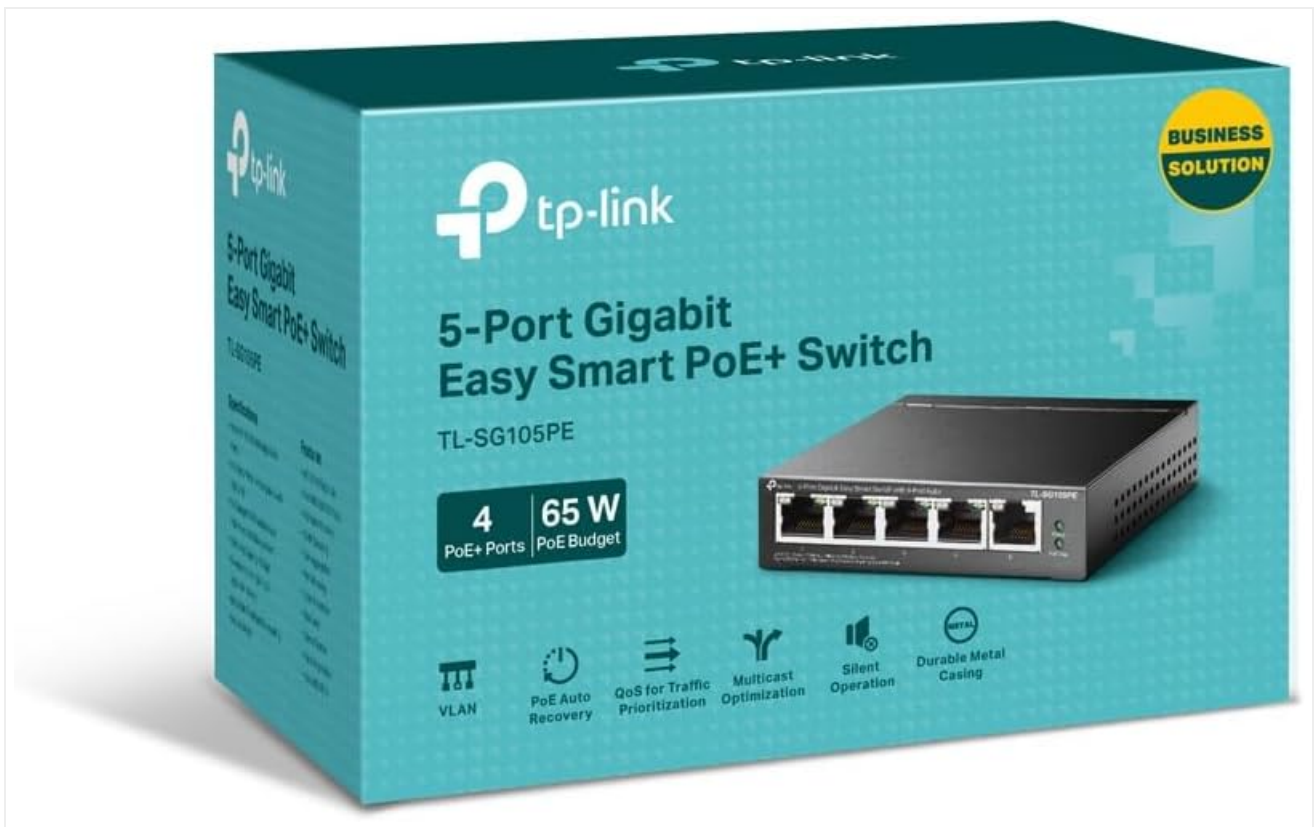


Figure 1: Product packaging for the TL-SG105PE switch.

2. Setup

Follow these steps to set up your TL-SG105PE switch:

1. **Connect to Power:** Connect the provided power adapter to the switch's power port and then plug it into a standard electrical outlet. The Power LED on the front panel should illuminate, indicating the switch is receiving power.
2. **Connect Network Devices:** Connect your network devices (e.g., computers, routers, IP cameras, IP phones, access points) to the switch's Ethernet ports using standard Ethernet cables. Ports 1-4 support PoE+, while Port 5 is a standard Gigabit Ethernet port.
3. **Verify Connections:** Once devices are connected, observe the LED indicators on the front panel. Each port has two LEDs: a Left LED (Green for 1000Mbps, Yellow for 10/100Mbps) and a Right LED (Solid Green for PoE Powered, Flashing Green for PoE fault). A solid green Left LED indicates a successful Gigabit connection, while a yellow LED indicates a 10/100Mbps connection. A solid green Right LED on ports 1-4 indicates a PoE device is successfully powered.

Easy to Use

1 Connect To Power



2 Connect The Devices



3 Enjoy



Figure 2: Simple setup process: Connect to Power, Connect Devices, and Enjoy.

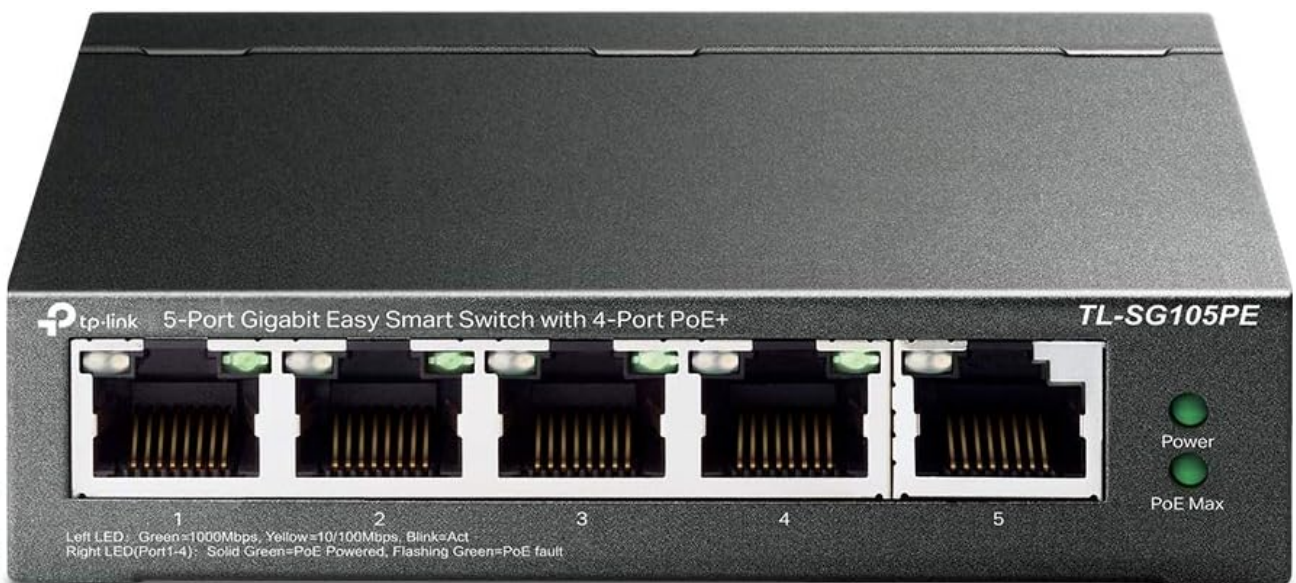


Figure 3: Front panel of the TL-SG105PE, showing five Gigabit Ethernet ports and LED indicators.



Figure 4: Rear panel of the TL-SG105PE, featuring the power input and reset button.

3. Operating

The TL-SG105PE is an Easy Smart switch, offering plug-and-play functionality for basic network expansion while also providing some management features for advanced configurations. For most users, simply connecting devices will allow them to communicate on the network.

Power over Ethernet (PoE+) Functionality:

- Ports 1-4 are PoE+ enabled, capable of delivering up to 30W per port with a total power budget of 65W. This allows for flexible deployment of PoE-compatible devices without the need for separate power outlets.
- The switch supports PoE Auto Recovery, which automatically reboots unresponsive PoE-powered devices by cutting and restoring power to the port. This feature enhances network reliability and reduces the need for manual intervention.

TP-Link PoE Switch

Supply power and data to network devices over a single Ethernet cable

4× Gigabit PoE+ Ports
Up to 30 W on Each Port
Total 65 W Power Budget



TL-SG105PE



Surveillance
IP Camera



Conference Calls
IP Phone



Wi-Fi Coverage
Access Point

Figure 5: The TL-SG105PE supplies both power and data to network devices over a single Ethernet cable.

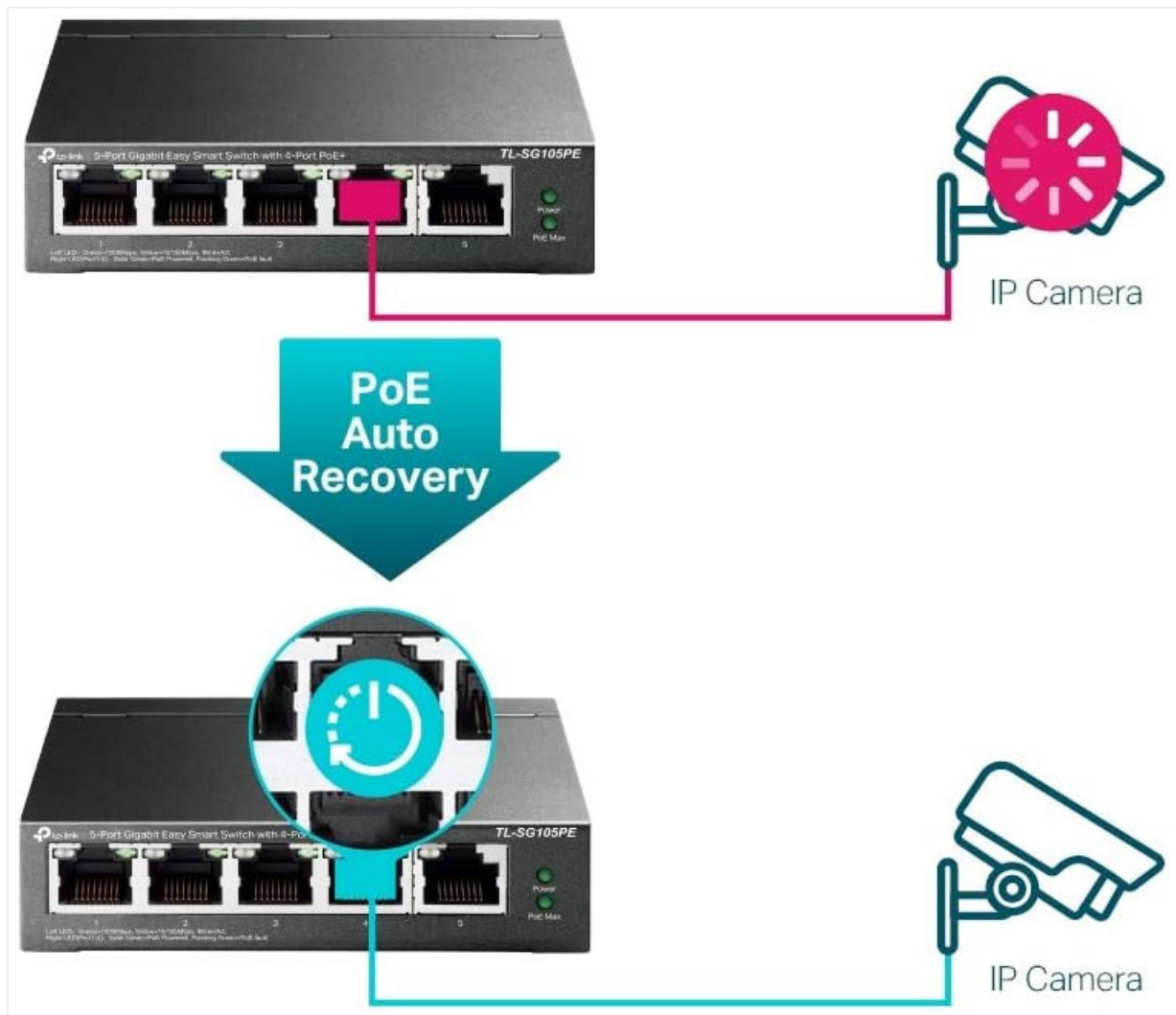


Figure 6: PoE Auto Recovery automatically restarts unresponsive PoE devices.

4. Maintenance

To ensure optimal performance and longevity of your TL-SG105PE switch, consider the following maintenance tips:

- **Placement:** Place the switch in a cool, dry place away from direct sunlight, heat sources, and excessive moisture. Ensure adequate ventilation around the device.
- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Cable Management:** Keep network cables organized and untangled to prevent damage and ensure proper airflow.
- **Firmware Updates:** Check the TP-Link official website periodically for firmware updates. Keeping the firmware up-to-date can improve performance and add new features.

5. Troubleshooting

If you encounter issues with your TL-SG105PE switch, refer to the following common problems and solutions:

- **No Power:**
 - Ensure the power adapter is securely connected to the switch and a working power outlet.
 - Verify the power outlet is functional by plugging in another device.
- **No Link/Activity on a Port:**

- Check if the Ethernet cable is securely connected at both ends.
- Try a different Ethernet cable.
- Ensure the connected device is powered on and functioning correctly.
- Verify the cable length does not exceed the maximum recommended length (typically 100 meters for Ethernet).

- **PoE Device Not Receiving Power:**

- Ensure the device connected to the PoE port is PoE-compatible (IEEE 802.3af/at compliant).
- Check the PoE Max LED on the switch. If it's red, the total PoE power budget (65W) has been exceeded. Disconnect some PoE devices or use devices with lower power consumption.
- Try connecting the PoE device to a different PoE port.
- If the PoE device is unresponsive, the PoE Auto Recovery feature should attempt to restart it. If not, manually disconnect and reconnect the Ethernet cable to the PoE device.

- **Slow Network Speed:**

- Ensure all connected devices and cables support Gigabit Ethernet for optimal speed.
- Check for excessive network traffic or loops.

If problems persist, consult the TP-Link support website or contact their technical support.

6. Specifications

Key technical specifications for the TP-Link TL-SG105PE switch:

Feature	Specification
Model Number	TL-SG105PE
Switch Type	Unmanaged (Easy Smart)
Number of Ports	5 Gigabit Ethernet Ports
PoE+ Ports	4 Ports (Ports 1-4)
PoE Standard	IEEE 802.3af/at
Max Power Per PoE Port	30W
Total PoE Power Budget	65W
Data Transfer Rate	10/100/1000 Mbps
Dimensions (LxWxH)	3.93" x 3.86" x 0.98" (99.8 x 98 x 25 mm)
Item Weight	14.1 ounces (400 Grams)
Case Material	Plastic
Power Source	Electric Power
Operating Temperature	0°C to 40°C (32°F to 104°F)

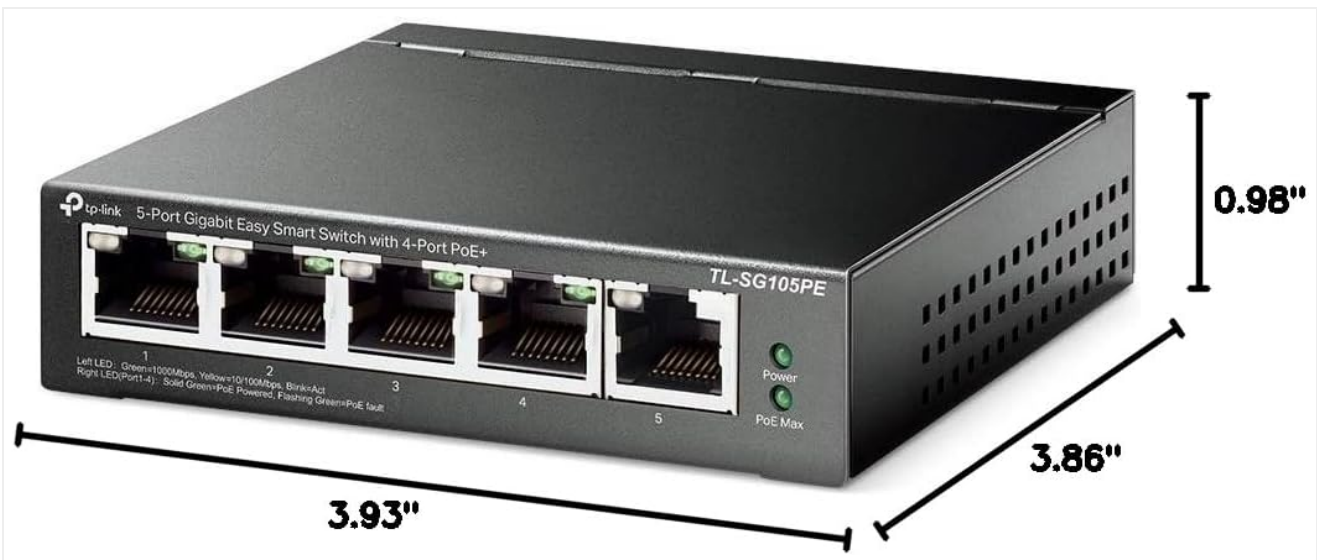


Figure 7: Physical dimensions of the TL-SG105PE switch.

7. Warranty and Support

TP-Link products typically come with a limited warranty. For detailed warranty information, including terms and conditions, please refer to the warranty card included with your product or visit the official TP-Link website.

For technical support, troubleshooting guides, firmware updates, and frequently asked questions, please visit the TP-Link support portal:

[TP-Link Official Support Website](#)

When contacting support, please have your product model number (TL-SG105PE) and serial number ready.