TP-Link TL-SG1005D

TP-Link TL-SG1005D 5-Port Gigabit Ethernet Network Switch Instruction Manual

1. INTRODUCTION AND OVERVIEW

The TP-Link TL-SG1005D is a 5-Port Unmanaged Gigabit Desktop Switch designed to provide an easy way to expand your network capacity. This device facilitates a seamless transition to Gigabit Ethernet, enhancing the speed of network servers and backbone connections, and bringing Gigabit speeds directly to desktop devices. The TL-SG1005D incorporates an energy-efficient design, capable of saving up to 70% of power consumption through innovative technology, making it an environmentally conscious solution for both home and office network environments.

Figure 1: Front view of the TP-Link TL-SG1005D 5-Port Gigabit Ethernet Switch.

2. PRODUCT FEATURES

- **Plug-and-Play:** Offers easy setup with no configuration or software installation required.
- **Ethernet Splitter:** Provides connectivity to your router or modem router for additional wired connections, supporting devices such as laptops, gaming consoles, and printers.
- **5-Port Gigabit Ethernet:** Features five 10/100/1000 Mbps Gigabit auto-negotiation RJ45 ports, significantly expanding network capacity.
- **Cost-Effective Design:** Boasts a fanless, quiet design suitable for desktop placement.

- **Reliable Data Transfer:** Incorporates IEEE 802.3x flow control for dependable data transmission.
- **Energy Efficiency:** Achieves up to 80% power saving by automatically adjusting power consumption based on link status and cable length.
- **Auto-Negotiation:** Supports Auto-MDI/MDIX, eliminating the need for crossover cables.

3. PACKAGE CONTENTS

The product package for the TP-Link TL-SG1005D includes the following items:

- TP-Link TL-SG1005D 5-Port Gigabit Ethernet Network Switch
- Power Cable

4. SETUP INSTRUCTIONS

The TP-Link TL-SG1005D switch is designed for simple plug-and-play installation, requiring no complex configuration. Follow these steps to set up your network switch:

1. **Connect Power:** Plug the provided power cable into the switch's power input port and then into a standard electrical outlet. The power LED on the switch should illuminate.
2. **Connect to Network Source:** Connect one end of an Ethernet cable to any of the RJ45 ports on the switch (e.g., Port 1) and the other end to your router or modem.
3. **Connect Devices:** Connect your wired devices (e.g., computers, gaming consoles, network printers) to the remaining RJ45 ports on the switch using Ethernet cables. The corresponding LED indicators for connected ports will light up, indicating an active connection.

Figure 2: Rear view of the TP-Link TL-SG1005D 5-Port Gigabit Ethernet Switch with ports and power input.

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Video 1: Product Overview and Basic Setup of the TP-Link TL-SG1005D Switch.

5. OPERATING INSTRUCTIONS

Once the switch is set up, it operates automatically without requiring further user intervention. Key operational aspects include:

- **LED Indicators:** The switch features LED indicators for each port and a power LED. These lights provide visual feedback on the connection status and activity. A solid light typically indicates a stable link, while a blinking light signifies data transfer.
- **Auto-Negotiation:** The switch automatically detects the link speed of a connected device (10, 100, or

1000 Mbps) and adjusts accordingly for optimal performance.

- **Auto-MDI/MDIX:** This feature automatically detects whether a connected Ethernet cable is a straight-through or crossover cable, eliminating the need for specific cable types.
- **Fanless Design:** The fanless design ensures silent operation, making it suitable for quiet environments like homes and small offices.

Figure 3: Top view of the switch, showing the power LED indicator.

6. MAINTENANCE

To ensure optimal performance and longevity of your TP-Link TL-SG1005D switch, consider the following maintenance guidelines:

- **Placement:** Place the switch in a well-ventilated area, away from direct sunlight, heat sources, and excessive moisture.
- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Avoid using liquid or aerosol cleaners.
- **Cable Management:** Ensure all Ethernet cables are securely connected and neatly organized to prevent accidental disconnections or damage.
- **Power Cycle:** If you experience network issues, a simple power cycle (unplugging and replugging the power adapter) can often resolve minor problems.

7. TROUBLESHOOTING

If you encounter issues with your TP-Link TL-SG1005D switch, try the following troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the switch and a working electrical outlet. Check if the power LED is illuminated.
- **No Link/Activity LED:** Verify that the Ethernet cables are correctly and securely plugged into both the switch and the connected device. Try using a different Ethernet cable to rule out cable failure. Ensure the connected device is powered on and functioning correctly.
- **Slow Network Speed:** Confirm that all connected devices and cables support Gigabit Ethernet (Cat5e or higher cables are recommended for Gigabit speeds). Ensure your internet service provider (ISP) is delivering the expected speeds to your modem/router.

- **Intermittent Connection:** Check for any loose cable connections. Ensure the switch is not placed near strong electromagnetic interference sources.

8. SPECIFICATIONS

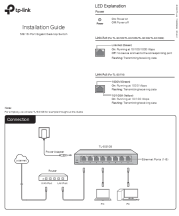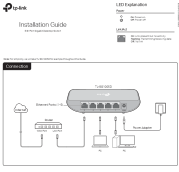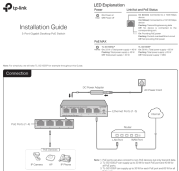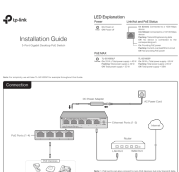| Feature	Detail
Model Number	TL-SG1005D
Product Dimensions	6.5"L x 4.3"W x 1.1"H
Item Weight	4.2 ounces (120 Grams)
Voltage	110 Volts
Upper Temperature Rating	40 Degrees Celsius
Interface Type	5 10/100/1000Mbps RJ45 Ports (AUTO Negotiation/AUTO MDI/MDIX)
Data Transfer Rate	1000 Megabits Per Second
Current Rating	0.6 Amps
Number of Ports	5
Color	Black
Compatible Devices	Desktop
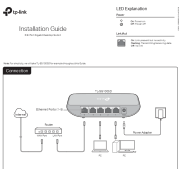
9. WARRANTY AND SUPPORT

The TP-Link TL-SG1005D 5-Port Gigabit Ethernet Network Switch comes with a**LIMITED LIFETIME WARRANTY**. Additionally, TP-Link offers unlimited 24/7 technical support for free.

For technical assistance or further inquiries, please contact TP-Link support:

- **Phone:** (866) 225-8139
- **Product Support:** myproducts.tp-link.com/us
- **Email:** support.USA@tp-link.com

Related Documents - TL-SG1005D

[TP-Link 5/8-Port Gigabit Desktop Switch Installation Guide](#)
Comprehensive installation guide for TP-Link 5/8-Port Gigabit Desktop Switches, including models TL-SG1005D and TL-SG1008D. Covers connection setup, LED indicator explanations, frequently asked questions, detailed specifications, and safety information.

	[TP-Link Gigabit Desktop Switch Installation Guide: TL-SG105, TL-SG108, TL-SG116](#) Installation guide for TP-Link's 5/8/16-Port Gigabit Desktop Switches (TL-SG105, TL-SG108, TL-SG116). Covers LED explanations, connection setup, technical specifications, FAQs, safety information, and compliance.
	[TP-Link TL-SG1005D/TL-SG1008D Gigabit Desktop Switch Installation Guide](#) Installation guide for TP-Link TL-SG1005D and TL-SG1008D 5/8-Port Gigabit Desktop Switches, providing setup instructions, LED explanations, troubleshooting FAQs, and technical specifications.
	[TP-Link TL-SG1005P/LP: 5-Port Gigabit Desktop PoE Switch Installation Guide](#) Comprehensive installation guide for the TP-Link TL-SG1005P and TL-SG1005LP 5-Port Gigabit Desktop PoE Switches, covering LED explanations, connection setup, specifications, and safety information.
	[TP-Link TL-SG1005P Installation Guide: 5-Port Gigabit PoE Switch Setup](#) Comprehensive installation guide for the TP-Link TL-SG1005P 5-Port Gigabit Desktop PoE Switch. Learn about LED indicators, connection setup, specifications, and troubleshooting.
	[TP-Link Unmanaged/Easy Smart Rackmountable Switches Installation Guide](#) This guide provides detailed instructions for installing and connecting TP-Link Unmanaged and Easy Smart Rackmountable Switches. It covers product overview, appearance, site requirements, installation procedures, connection methods, troubleshooting, and technical specifications.