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## TP-Link TL-SF1005D

# TP-Link 5 Port 10/100 Mbps Fast Ethernet Switch User Manual

MODEL: TL-SF1005D

Brand: TP-Link

## Introduction

The TP-Link TL-SF1005D is a 5-Port Unmanaged 10/100M Desktop Switch designed to expand your network capacity with ease. This device supports IEEE 802.3x flow control for Full Duplex mode and backpressure for half-duplex mode, ensuring reliable data transfer. Its plug-and-play design requires no configuration or software, making it simple to set up for home or office use. The fanless design ensures quiet operation, and Green Ethernet technology contributes to power savings.



Figure 1: TP-Link 5-Port Fast Ethernet Switch (TL-SF1005D)

## What's in the Box

Upon opening the package, please ensure all items are present:

- 5-Port 10/100Mbps Desktop Switch
- Power Adapter



Figure 2: Package Contents

## Setup Instructions

The TL-SF1005D switch is designed for easy plug-and-play setup, requiring no complex configuration. Follow these steps to get your network running:

1. **Connect the Power Adapter:** Plug one end of the provided power adapter into the power port on the switch and the other end into a standard electrical outlet. The power LED on the switch should illuminate.
2. **Connect to Your Router/Modem:** Use an Ethernet cable to connect one of the RJ45 ports on the TL-SF1005D switch to an available LAN port on your router or modem.
3. **Connect Your Devices:** Connect your wired devices (e.g., desktop computers, gaming consoles, printers, smart TVs, laptops) to the remaining RJ45 ports on the switch using Ethernet cables. The Link/Act LEDs for connected ports will light up, indicating an active connection.



Figure 3: Front view of the switch with numbered ports

The switch automatically detects the speed and duplex mode of the connected devices, eliminating the need for manual configuration. It supports Auto-MDI/MDIX, so you do not need to worry about using crossover cables.

## Operating Principles

The TL-SF1005D is an unmanaged switch, meaning it operates automatically without requiring user intervention for network management. It functions as an Ethernet splitter, expanding the number of wired connections available from your router or modem.

- **Wire-speed Performance:** All 5 ports operate at wire speed, ensuring maximum throughput for connected devices.
- **MAC Address Auto-Learning and Auto-Aging:** The switch intelligently learns and updates the MAC addresses of connected devices to efficiently forward data.
- **IEEE 802.3x Flow Control:** This standard provides reliable data transfer by preventing packet loss in full-duplex mode and managing network congestion in half-duplex mode.
- **Green Ethernet Technology:** The switch automatically adjusts power consumption based on the link status and cable length, leading to significant energy savings (up to 68% power saving).
- **Fanless Design:** The absence of a fan ensures quiet operation, making it suitable for placement in any environment.

Using a wired Ethernet connection often provides more stable and faster speeds compared to Wi-Fi, especially for activities like online gaming, large file transfers, and video streaming, as it minimizes latency and interference.

## Maintenance and Care

The TL-SF1005D is designed for durability and minimal maintenance. To ensure optimal performance and longevity:

- **Placement:** Place the switch in a well-ventilated area, away from direct sunlight, heat sources, and excessive moisture.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols.
- **Cable Management:** Ensure Ethernet cables are not excessively bent or kinked, which can affect performance.

- **Power Cycle:** If you experience network issues, try power cycling the switch (unplugging it from power for a few seconds and then plugging it back in).

## Troubleshooting

If you encounter issues with your TL-SF1005D switch, consider the following common troubleshooting steps:

- **No Power LED:** Ensure the power adapter is securely connected to both the switch and a working power outlet.
- **Link/Act LED is Off:**
  - Check if the Ethernet cable is securely plugged into both the switch and the connected device.
  - Verify that the connected device is powered on.
  - Try a different Ethernet cable or port on the switch.
- **Slow Network Speed:**
  - Ensure your connected devices are capable of 100 Mbps speeds.
  - Check the quality and length of your Ethernet cables. Cat5e or Cat6 cables are recommended for optimal performance.
  - Minimize network congestion by reducing the number of simultaneous high-bandwidth activities.

For further assistance, please refer to the official user manual PDF or contact TP-Link technical support.

## Technical Specifications

<b>Switch Type</b>	Desktop Ethernet Switch
<b>Product Dimensions</b>	4.07"L x 2.74"W x 0.87"H
<b>Item Weight</b>	0.4 Pounds (6.4 ounces)
<b>Interface Type</b>	5 x 10/100 Mbps RJ45 Ports (Auto-Negotiation/Auto MDI/MDIX)
<b>Data Transfer Rate</b>	100 Megabits Per Second
<b>Standards and Protocols</b>	IEEE802.3, 802.3u, 802.3x, CSMA/CD, TCP/IP
<b>Backbound Bandwidth</b>	1Gbps
<b>MAC Address Table</b>	1k
<b>Transmission Method</b>	Store-and-Forward
<b>Power Supply</b>	External Power Adapter (Output: 9.0VDC / 0.6A)
<b>Max Power Consumption</b>	1.9W
<b>Max Heat Dissipation</b>	6.4 BTU/h
<b>Case Material</b>	Plastic
<b>Operating Temperature</b>	0°C~40°C (32°F~104°F)

## Warranty and Support

TP-Link provides unlimited 24/7 technical support for this product. For detailed warranty information, please refer to the official TP-Link website or the included Installation Guide.

For a comprehensive user guide, you can download the PDF manual from the official TP-Link support page or via this direct link: [TP-Link TL-SF1005D User Manual \(PDF\)](#).