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Model: TL-SF1016D

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the TP-Link TL-SF1016D 16-Port 10/100Mbps Fast Ethernet Switch. The TL-SF1016D is designed for Small Office/Home Office (SOHO) or workgroup environments, offering a simple and efficient solution for expanding your network. Key features include 16 auto MDI/MDIX ports, plug-and-play functionality, and energy-efficient technology designed to reduce power consumption.



Figure 1.1: TP-Link TL-SF1016D 16-Port Fast Ethernet Switch. This image shows the compact design suitable for desktop placement.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- TP-Link TL-SF1016D 16-Port 10/100Mbps Desktop Switch
- Power Adapter
- User Manual (this document)



Figure 2.1: TL-SF1016D Product Packaging. The box contains the 16-port switch, power adapter, and documentation.

3. HARDWARE OVERVIEW

3.1 Front Panel



Figure 3.1: Front Panel of TL-SF1016D. Displays the TP-Link logo, model number, power LED, and 16 port status LEDs. The front panel features LED indicators for power and each of the 16 Ethernet ports. These LEDs provide visual status of the switch's operation and network activity.

- **Power LED:** Indicates the power status of the switch.
- **Port LEDs (1-16):** Each port has an associated LED. A lit LED indicates a stable link, and a blinking LED indicates data activity.

3.2 Rear Panel



Figure 3.2: Rear Panel of TL-SF1016D. Shows the 16 RJ45 Ethernet ports and the power input jack. The rear panel contains the 16 RJ45 Ethernet ports and the power input jack.

- **10/100Mbps RJ45 Ports (1-16):** These ports support Auto-Negotiation and Auto-MDI/MDIX, allowing for flexible connection to various network devices using standard Ethernet cables.
- **Power Input:** Connect the provided power adapter here.

4. SETUP

The TL-SF1016D is a plug-and-play device, requiring no software configuration. Follow these steps for basic setup:

1. **Placement:** Place the switch on a stable, flat surface, or mount it on a wall. Ensure adequate ventilation

around the device.

2. **Connect Power:** Connect the provided power adapter to the power input jack on the rear panel of the switch, then plug the adapter into a standard electrical outlet. The Power LED on the front panel should illuminate.
3. **Connect Network Devices:** Connect your network devices (e.g., computers, printers, network-attached storage, routers) to any of the 16 RJ45 ports using standard Ethernet cables. The corresponding Port LED will light up, indicating a successful connection.

The switch will automatically detect the speed and duplex mode of the connected devices (10Mbps or 100Mbps) and adjust accordingly.

5. OPERATING THE SWITCH

The TL-SF1016D operates automatically once connected. It functions as a central connection point for your wired network devices.

- **Data Transfer:** The switch forwards and filters packets at full wire-speed, ensuring maximum throughput for all connected devices.
- **Auto-MDI/MDIX:** This feature eliminates the need for crossover cables, simplifying network setup. You can use either straight-through or crossover Ethernet cables for any port.
- **Fanless Design:** The fanless design ensures quiet operation, making it suitable for sensitive environments like homes or small offices.
- **Energy Efficiency:** The switch incorporates innovative energy-efficient technology, which can save up to 70% of power consumption by automatically adjusting power usage based on cable length and link status.
- **Jumbo Frame Support:** Supports 9K Jumbo frames, which can improve the performance of large data transfers.

6. MAINTENANCE

To ensure optimal performance and longevity of your TL-SF1016D switch, consider the following maintenance guidelines:

- **Cleaning:** Regularly clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation slots are not blocked to prevent overheating.
- **Power Cycle:** If the switch experiences connectivity issues, try power cycling it by unplugging the power adapter, waiting for 10 seconds, and then plugging it back in.
- **Cable Management:** Keep Ethernet cables neatly organized to prevent tangles and potential damage.

7. TROUBLESHOOTING

If you encounter issues with your TL-SF1016D switch, refer to the following common troubleshooting tips:

Problem	Possible Cause / Solution
No Power LED	Ensure the power adapter is securely connected to the switch and a working electrical outlet. Verify the power outlet is functional.
No Link/Act LED for a connected device	Check if the Ethernet cable is securely connected at both ends (switch and device). Ensure the connected device is powered on and functioning correctly. Try a different Ethernet cable. Try connecting to a different port on the switch. Verify the network adapter on the connected device is enabled.
Slow Network Speed	Ensure all connected devices are operating at 100Mbps. Check the quality and length of your Ethernet cables. Cat5e or Cat6 cables are recommended for optimal performance. Verify that your internet service provider (ISP) speed is not the bottleneck.

8. SPECIFICATIONS

Feature	Description
Model	TL-SF1016D
Number of Ports	16 x 10/100Mbps RJ45 Ports
Data Transfer Rate	100 Megabits Per Second (per port)
Switching Capacity	3.2 Gbps
Standards and Protocols	IEEE 802.3, IEEE 802.3u, IEEE 802.3x
Jumbo Frame	9K Bytes
MAC Address Table	8K, Auto-learning, Auto-aging
Power Consumption (On-mode)	3.1 Watts
Power Supply	External Power Adapter (Output: 9VDC/0.6A)
Dimensions (W x D x H)	7.87 x 5.59 x 1.57 inches (200 x 142 x 40 mm)
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
Case Material	Plastic
Certifications	CE, FCC, RoHS

9. WARRANTY AND SUPPORT

For warranty information, technical support, and product updates, please visit the official TP-Link website:

www.tp-link.com

TP-Link is committed to providing reliable products and support. As a signatory of the U.S. Cybersecurity and Infrastructure Security Agency's (CISA) Secure-by-Design pledge, TP-Link prioritizes product security and user privacy.