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TP-Link TL-SF1024

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1. INTRODUCTION

The TP-Link TL-SF1024 is a 24-port 10/100Mbps Fast Ethernet Rackmount Switch designed for reliable and efficient network connectivity in workgroup and departmental environments. This unmanaged switch offers 24 auto-negotiating RJ45 ports, supporting Auto MDI/MDIX, simplifying network expansion without complex configuration. It features innovative energy-efficient technology, reducing power consumption by up to 40%.

2. SAFETY INFORMATION

Please read and follow these safety guidelines to prevent damage to the device and ensure personal safety:

- Ensure the power supply voltage matches the device's requirements.
- Do not expose the device to water or excessive humidity.
- Avoid placing the device in direct sunlight or near heat sources.
- Ensure proper ventilation around the device to prevent overheating.
- Use only the power cord provided with the device.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- TP-Link TL-SF1024 24-Port 10/100Mbps Rackmount Switch
- Power Cord
- Installation Guide
- Rackmount Kit
- Rubber Feet

4. PRODUCT OVERVIEW

The TL-SF1024 switch features a durable steel case and a fanless design for silent operation. Below is an illustration of the front panel and its components.

4.1 Front Panel



Image: Front view of the TP-Link TL-SF1024 24-Port 10/100Mbps Rackmount Switch. The device is a rectangular black unit with the TP-Link logo on the left. It features 24 RJ45 ports arranged in groups of eight, each with corresponding LED indicators for link/activity and speed. The ports are clearly labeled for easy identification.

The front panel includes:

- **Power LED:** Indicates the power status of the switch.
- **24 x 10/100Mbps RJ45 Ports:** These ports support auto-negotiation for speed and duplex mode, and Auto MDI/MDIX, eliminating the need for crossover cables.
- **Link/Act LEDs (per port):** Indicates a valid network connection and flashes to show data activity.
- **Speed LEDs (per port):** Indicates the connection speed (e.g., green for 100Mbps, off for 10Mbps).

4.2 Rear Panel

The rear panel typically contains the power input connector. Ensure the power cord is securely connected to the switch and a compatible power outlet.

5. SETUP INSTRUCTIONS

Follow these steps to install and set up your TL-SF1024 switch:

5.1 Step 1: Unpacking

1. Carefully remove the switch and all accessories from the packaging.
2. Inspect the contents against the 'Package Contents' section to ensure all items are present and undamaged.

5.2 Step 2: Rack Mounting (Optional)

The TL-SF1024 is designed for standard 19-inch rack mounting. If you intend to rackmount the switch:

1. Attach the provided rackmount brackets to the sides of the switch using the screws included in the rackmount kit.
2. Secure the switch into an available slot in your equipment rack using appropriate rack screws (not typically included with the switch).

Alternatively, for desktop use, attach the included rubber feet to the bottom of the switch to prevent scratching surfaces and provide stability.

5.3 Step 3: Connecting Power

1. Connect one end of the power cord to the power input on the rear panel of the switch.
2. Plug the other end of the power cord into a standard electrical outlet.
3. The Power LED on the front panel should illuminate, indicating the switch is receiving power.

5.4 Step 4: Connecting Network Devices

1. Using standard Ethernet cables (Cat5, Cat5e, or Cat6), connect your network devices (e.g., computers, servers, other switches, routers) to any of the 24 RJ45 ports on the front panel.
2. Once a device is connected and powered on, the corresponding Link/Act LED for that port should light up, and the Speed LED will indicate the connection speed.

6. OPERATING THE SWITCH

The TL-SF1024 is an unmanaged switch, meaning it requires no configuration. Simply connect your devices, and it will automatically facilitate network communication.

6.1 LED Indicators

Monitor the LED indicators on the front panel to understand the switch's status and network activity:

LED	Status	Indication
Power	On	The switch is powered on.
Power	Off	The switch is powered off.
Link/Act (per port)	On	A device is connected to the port.
Link/Act (per port)	Flashing	Data is being transmitted or received through the port.
Link/Act (per port)	Off	No device is connected or the connected device is off.
Speed (per port)	On (Green)	The port is operating at 100Mbps.
Speed (per port)	Off	The port is operating at 10Mbps.

7. MAINTENANCE

To ensure optimal performance and longevity of your switch:

- Keep the switch in a clean, dust-free environment.
- Ensure adequate airflow around the device, especially if rackmounted.
- Periodically check cable connections to ensure they are secure.
- Clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners.

8. TROUBLESHOOTING

If you encounter issues with your TL-SF1024 switch, refer to the following common problems and solutions:

- **No Power:** If the Power LED is off, ensure the power cord is securely connected to both the switch and a working power outlet. Try a different outlet or power cord.
- **No Link/Activity:** If a Link/Act LED is off for a connected device, check the Ethernet cable connection at both ends. Ensure the connected device is powered on and its network adapter is functioning correctly. Try a different port or cable.
- **Slow Connection Speed:** If the Speed LED indicates 10Mbps when 100Mbps is expected, check the Ethernet cable for damage or ensure it is a Cat5e or higher cable. Verify the network adapter settings on the connected device.
- **Network Performance Issues:** If the network is slow, check for excessive network traffic or potential cable issues. Ensure all devices are functioning correctly.

9. TECHNICAL SPECIFICATIONS

Detailed specifications for the TP-Link TL-SF1024 switch:

Feature	Specification
Standards and Protocols	IEEE 802.3i, IEEE 802.3u, IEEE 802.3x
Interface	24 10/100Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX)
Network Media	10BASE-T: UTP category 3, 4, 5 cable (max 100m) 100BASE-TX: UTP category 5, 5e or above cable (max 100m)
Fan Quantity	Fanless
Dimensions (W x D x H)	17.3 x 7.1 x 1.7 in. (440 x 180 x 44 mm)
Power Supply	100-240VAC, 50/60Hz
Switching Capacity	4.8Gbps
MAC Address Table	8K
Packet Forwarding Rate	3.57Mpps
Green Technology	Innovative energy-efficient technology saves power up to 40%
Transfer Method	Store-and-Forward
Certification	FCC, CE, RoHS
Operating Temperature	0°C~40°C (32°F~104°F)
Storage Temperature	-40°C~70°C (-40°F~158°F)
Operating Humidity	10%~90% non-condensing
Storage Humidity	5%~90% non-condensing
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista, Windows 7 or Windows 8, MAC OS, NetWare, UNIX or Linux.

10. WARRANTY AND TECHNICAL SUPPORT

For warranty information, technical support, and product updates, please visit the official TP-Link website or contact your local TP-Link support team. You can typically find detailed support resources, FAQs, and contact information on the manufacturer's support pages.

