

[Manuals.plus](#) /

> [TP-Link](#) /

> TP-Link TL-SX3008F 8-Port 10G SFP+ Enterprise Level Switch User Manual

TP-Link TL-SX3008F

TP-Link TL-SX3008F User Manual

JetStream 8-Port 10GE SFP+ L2+ Managed Switch

Model: TL-SX3008F | Brand: TP-Link

1. INTRODUCTION

This manual provides instructions for the installation, configuration, and operation of the TP-Link TL-SX3008F 8-Port 10G SFP+ Enterprise Level Switch. The TL-SX3008F is a high-performance L2+ managed switch designed for robust network environments, offering 10 Gigabit SFP+ ports and integration with the Omada SDN platform.



Image 1.1: The TP-Link TL-SX3008F switch, highlighting its role in future-proofing network infrastructure with 10G fiber capabilities.

2. PACKAGE CONTENTS

Verify the package contains the following items. If any item is missing or damaged, please contact your distributor.

- TL-SX3008F Switch
- Power Cord
- Quick Installation Guide
- Rackmount Kit
- Rubber Feet

3. PRODUCT OVERVIEW

3.1 Front Panel Layout



Image 3.1: Front panel of the TL-SX3008F switch, displaying the 8 SFP+ ports, console port, and various LED indicators for power, system, and port status.

3.2 Physical Dimensions and Ports

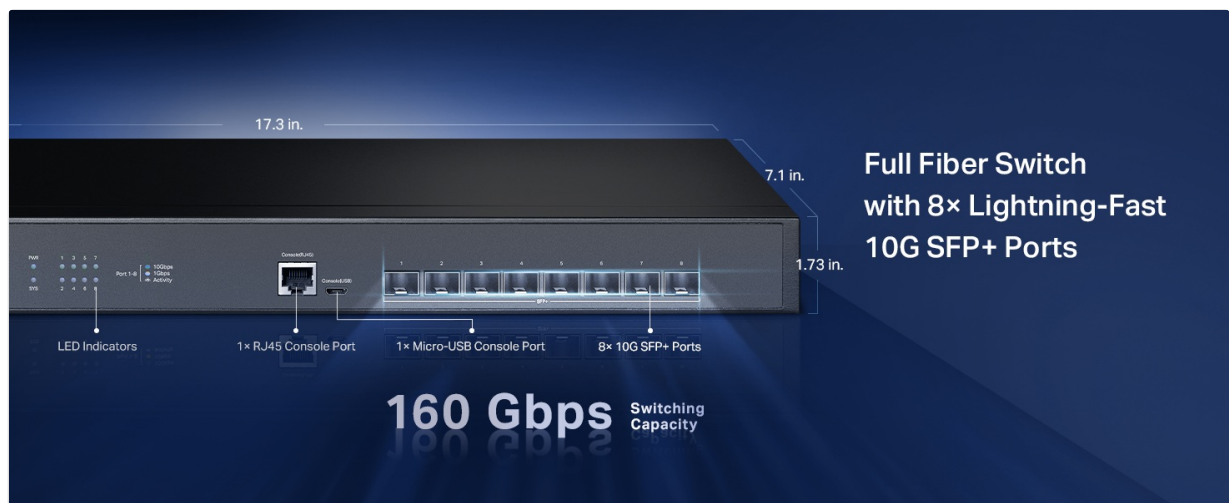


Image 3.2: Detailed view of the TL-SX3008F switch, illustrating its physical dimensions (17.32 x 7.09 x 1.73 inches) and key components including 8x 10G SFP+ Ports, 1x Micro-USB Console Port, 1x RJ45 Console Port, and LED Indicators. It also highlights a 160 Gbps switching capacity.

The switch features 8x 10 Gbps SFP+ ports for high-bandwidth connectivity, along with console ports for management. LED indicators provide status information for power, system, and individual port activity.

4. SETUP

4.1 Mounting the Switch

The TL-SX3008F can be placed on a desktop or mounted in a standard 19-inch equipment rack. Use the included rubber feet for desktop placement or the rackmount kit for rack installation.

1. **Desktop Placement:** Attach the four rubber feet to the recessed areas on the bottom of the switch. Place the switch on a flat, stable surface.
2. **Rack Mounting:** Secure the two rackmount brackets to the sides of the switch using the provided

screws. Then, attach the switch to the rack using appropriate rack screws (not always included with the switch, check your rack documentation).

4.2 Connecting Power

Connect the provided power cord to the power inlet on the rear panel of the switch and then to a suitable AC power outlet. Ensure the power source meets the switch's power requirements.

4.3 Network Connections

Connect your network devices (servers, other switches, etc.) to the SFP+ ports using compatible 10G SFP+ transceivers and fiber optic cables. Ensure proper fiber polarity for optimal performance.



Image 4.1: Illustration of how the TL-SX3008F switch can be used to build a 10G network, connecting to core servers/NAS and other network infrastructure components.

5. OPERATING THE SWITCH

5.1 Omada SDN Integration

The TL-SX3008F is designed to integrate seamlessly with TP-Link's Omada Software Defined Networking (SDN) platform. Omada SDN centralizes management of network devices, including switches, access points, and gateways, through various control options:

- **Omada Hardware Controller:** A dedicated device for local management.
- **Omada Software Controller:** Software installed on a server for local management.
- **Omada Cloud-based Controller:** For remote cloud access and management via the Omada app or web interface.

Note: For SDN usage, ensure your devices/controllers are equipped with or can be upgraded to an SDN-compatible version. SDN controllers work only with SDN switches, access points, and gateways.



Image 5.1: Overview of Omada SDN and its flexible management capabilities, showing how JetStream switches, Omada Access Points, and Omada Routers are managed through a unified interface with cloud access.



Image 5.2: The Omada Cloud Networking Solution provides unified management from a single interface, enabling control over multiple sites such as hospitality, education, and office environments.

5.2 Advanced Network Features (L2+/L3)

The TL-SX3008F supports a range of advanced L2+/L3 features to enhance network performance and security:

- **802.1Q VLAN:** Divides the network into smaller, isolated segments to improve security and performance.
- **IP-MAC-Port Binding:** Binds specific IP addresses, MAC addresses, and port numbers to prevent unauthorized access.
- **Access Control List (ACL):** Filters network traffic based on defined rules for enhanced security.
- **Port Security:** Limits the number of MAC addresses learned on a port to prevent MAC flooding attacks.
- **DoS Defend:** Protects the network from Denial of Service attacks.
- **Storm Control:** Prevents network performance degradation caused by broadcast, multicast, or unknown unicast storms.
- **DHCP Snooping:** Enhances network security by filtering untrusted DHCP messages.
- **802.1X Radius Authentication:** Provides centralized authentication for network access.
- **Static Routing:** Allows for efficient routing of traffic between different network segments.

- **IPv6 Support:** Ensures compatibility with next-generation internet protocols.
- **L2/L3/L4 QoS:** Prioritizes network traffic to ensure smooth operation for critical applications.
- **IGMP Snooping:** Optimizes multicast traffic delivery, particularly useful for IPTV.
- **Link Aggregation Group (LAG):** Increases bandwidth and provides link redundancy by grouping multiple physical links into a single logical link.

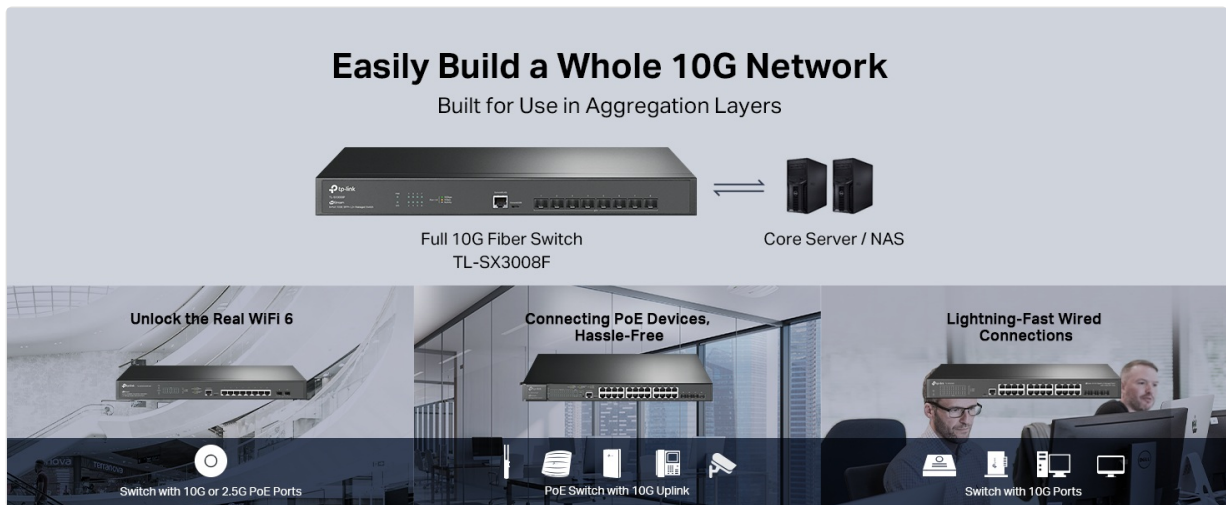


Image 5.3: Illustration of advanced network features such as VLANs, which segment the network for improved security and performance, along with Flow Control, QoS, and IGMP Snooping.

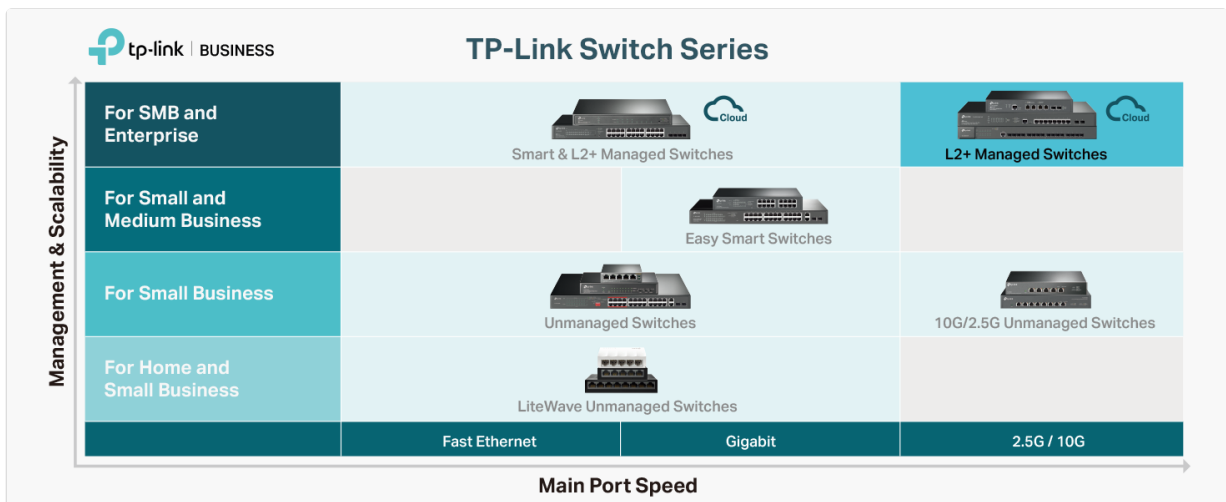


Image 5.4: Visual representation of the L2+/L3 features supported by the switch, including Static Routing, IPv6 Support, DHCP Server, DHCP Relay, and IP Interfaces.

6. MAINTENANCE

6.1 General Care

- Keep the switch in a cool, dry environment, away from direct sunlight and heat sources.
- Ensure adequate ventilation around the switch to prevent overheating.
- Clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- Regularly check cable connections to ensure they are secure.

6.2 Firmware Updates

Periodically check the TP-Link official website for firmware updates. Keeping the firmware up-to-date ensures optimal performance, security, and access to new features. Firmware updates can typically be

performed through the Omada controller or the switch's standalone web interface.

7. TROUBLESHOOTING

7.1 No Power Indicator

- Ensure the power cord is securely connected to the switch and the power outlet.
- Verify the power outlet is functional by plugging in another device.
- Check the power cord for any damage.

7.2 No Link/Activity on a Port

- Check the SFP+ module and fiber optic cable connection at both ends.
- Ensure the SFP+ module is compatible with the switch and the connected device.
- Verify the connected device is powered on and functioning correctly.
- Check the fiber optic cable for damage or excessive bends.

7.3 Cannot Access Management Interface

- Ensure your computer is on the same network segment as the switch or has a route to it.
- Verify the IP address of the switch and your computer.
- If using Omada SDN, ensure the controller is running and the switch is adopted.
- Try connecting via the console port for direct access.

8. SPECIFICATIONS

Feature	Detail
Model Number	TL-SX3008F
Brand	TP-Link
Number of Ports	8x 10G SFP+ Ports
Data Transfer Rate	10 Gigabits Per Second
Interface Type	SFP+
Switching Capacity	160 Gbps (Non-blocking)
Dimensions (L x W x H)	17.32 x 7.09 x 1.73 inches (440 x 180 x 44 mm)
Item Weight	3.63 pounds (1.65 Kilograms)
Upper Temperature Rating	45 Degrees Celsius
Included Components	TL-SX3008F Switch, Power Cord, Quick Installation Guide, Rackmount Kit, Rubber Feet
Compatible Devices	Desktop (and rackmount environments)
UPC	840030702495

9. WARRANTY INFORMATION

The TP-Link TL-SX3008F switch comes with a **5-Year Manufacturer Warranty**. For detailed terms and conditions, please refer to the warranty card included in your package or visit the official TP-Link website. Additional protection plans may be available for purchase:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly billing option)

These plans offer extended coverage beyond the standard manufacturer warranty. Please check with your retailer for availability and specific terms.

10. SUPPORT AND RESOURCES

For further assistance, technical support, or to download the latest drivers and firmware, please visit the official TP-Link website:

www.tp-link.com

You can also find FAQs and community forums on the TP-Link support pages.