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#### TP-Link TL-SG3210 V3

# TP-Link TL-SG3210 V3 8-Port Gigabit L2+ Managed Switch User Manual

Model: TL-SG3210 V3

#### 1. Introduction

The TP-Link TL-SG3210 V3 is an 8-port Gigabit L2+ managed switch designed for robust network performance and flexible management. It features 8 Gigabit RJ45 ports and 2 Gigabit SFP slots, providing high-speed and reliable connections for various network devices. This switch integrates seamlessly into the Omada Software Defined Networking (SDN) platform, offering centralized cloud management. It supports advanced features such as IPv6, Static Routing, L2/L3/L4 QoS, IGMP, and Link Aggregation Group (LAG) for enhanced network security and resource efficiency.

# 2. PACKAGE CONTENTS

Verify that your package contains the following items:

- TL-SG3210 V3 Switch
- Power Cord
- · Quick Installation Guide
- Rackmount Kit
- Rubber Feet

#### 3. PHYSICAL OVERVIEW

#### **Front Panel**

The front panel of the TL-SG3210 V3 switch includes LED indicators, console ports, Gigabit RJ45 ports, and Gigabit SFP slots.



Figure 3.1: Front view of the TP-Link TL-SG3210 V3 switch, showing the layout of ports and indicators.

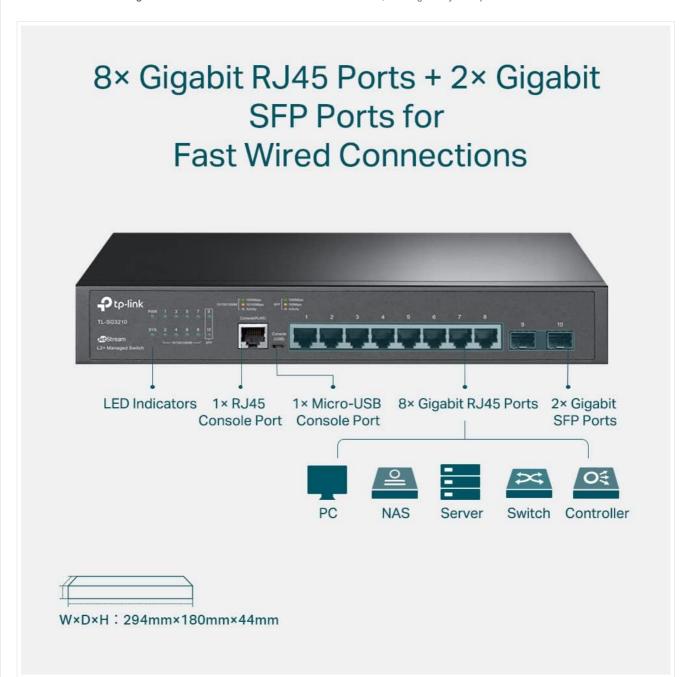


Figure 3.2: Detailed diagram of the TP-Link TL-SG3210 V3 front panel, labeling LED indicators, RJ45 console port, Micro-USB console port, 8 Gigabit RJ45 ports, and 2 Gigabit SFP ports. It also shows typical connections to PC, NAS, Server, Switch, and Controller.

#### **Rear Panel**

The rear panel contains the power input and a grounding screw.



Figure 3.3: Rear view of the TP-Link TL-SG3210 V3 switch, showing the power input and grounding screw.

# 4. SETUP

# 4.1 Mounting the Switch

The TL-SG3210 V3 can be placed on a desktop or mounted in a rack using the included rackmount kit. For desktop placement, attach the rubber feet to the bottom of the switch.

# 4.2 Connecting Power

- 1. Connect one end of the provided power cord to the power input on the rear panel of the switch.
- 2. Connect the other end of the power cord to a standard electrical outlet.
- 3. Ensure the power LED on the front panel illuminates, indicating the switch is receiving power.

#### 4.3 Network Connections

- 1. Connect your network devices (e.g., computers, servers, other switches) to the RJ45 ports (1-8) on the front panel using Ethernet cables.
- 2. For fiber optic connections, insert compatible SFP modules into the SFP slots (9-10) and connect fiber optic cables.

#### 5. CONFIGURATION AND OPERATION

#### **5.1 Management Options**

The TL-SG3210 V3 offers multiple management options:

- Omada SDN Integration: For centralized cloud management of your entire network, integrate the switch into the Omada Software Defined Networking platform. This allows management via an Omada Hardware Controller, Software Controller, or the Omada app.
- Standalone Management: The switch can be managed independently via a web-based Graphical User Interface (GUI), Command Line Interface (CLI) through console ports (RJ45 or Micro-USB), SNMP, or RMON.

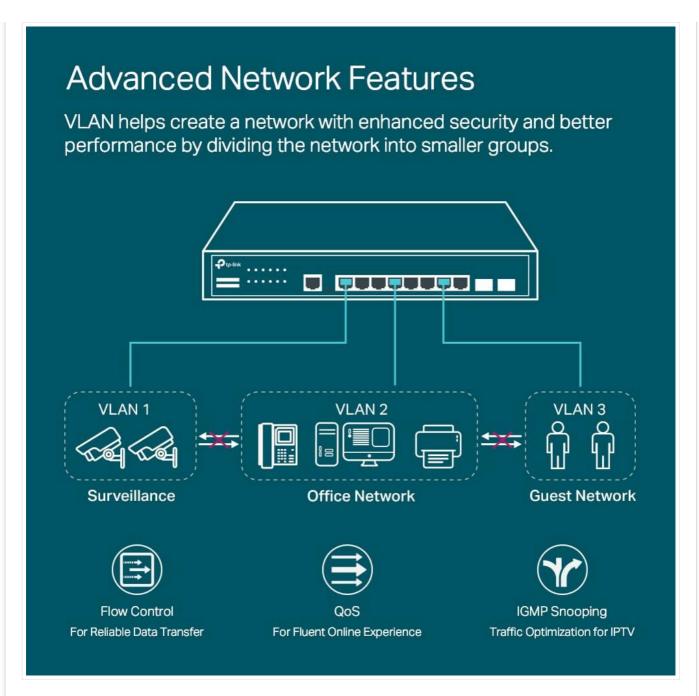


Figure 5.1: Diagram illustrating the Omada SDN integration, showing how JetStream Switches, Omada Access Points, and Omada Routers connect to a unified management interface, controllers, and cloud access.

# **5.2 Advanced Network Features**

The switch supports various L2+ features to optimize network performance and security:

- 802.1Q VLAN: Create virtual local area networks to segment traffic and enhance security.
- **IP-MAC-Port Binding:** Bind specific IP addresses, MAC addresses, and ports to prevent unauthorized access.
- Access Control List (ACL): Define rules to filter network traffic based on various criteria.
- Port Security: Limit the number of MAC addresses allowed on a port to prevent MAC flooding attacks.
- DoS Defend: Protect against Denial of Service attacks.
- **Storm Control:** Prevent network performance degradation caused by broadcast, multicast, or unknown unicast storms.
- DHCP Snooping: Enhance network security by filtering untrusted DHCP messages.
- 802.1X Radius Authentication: Provide centralized authentication for network access.
- Static Routing: Route internal traffic more efficiently within the network.

- L2/L3/L4 QoS: Prioritize network traffic for critical applications, ensuring smooth operation.
- IGMP Snooping: Optimize multicast traffic delivery, particularly useful for IPTV.

# Omada SDN & Flexible Management

Omada SDN platform integrates network devices, including gateways, APs, and switches with multiple control options offered — Hardware controller, Software Controller and Cloud-based Controller (Coming Soon).



- · Standalone mode also applies.
- For SDN usage, make sure your devices/controllers are either equipped with or can be upgraded to SDN version.
- SDN controllers work only with SDN APs, Switches, and Routers.
- · Non-SDN controllers work only with non-SDN APs.

Figure 5.2: Diagram explaining advanced network features like VLANs (VLAN 1 for Surveillance, VLAN 2 for Office Network, VLAN 3 for Guest Network),
Flow Control, QoS, and IGMP Snooping.

#### 6. MAINTENANCE

To ensure optimal performance and longevity of your TL-SG3210 V3 switch, consider the following maintenance practices:

- **Firmware Updates:** Regularly check the TP-Link website for the latest firmware versions. Updating the firmware can provide new features, performance improvements, and security patches.
- **Physical Cleaning:** Keep the switch free from dust and debris. Use a soft, dry cloth for cleaning. Ensure ventilation openings are not obstructed.
- Environmental Conditions: Operate the switch within the recommended temperature and humidity ranges as specified in the technical specifications. Avoid exposing the device to direct sunlight or excessive moisture.
- Cable Management: Ensure all network cables are neatly organized and securely connected to prevent accidental disconnections or damage.

# 7. TROUBLESHOOTING

If you encounter issues with your TL-SG3210 V3 switch, try the following basic troubleshooting steps:

- **No Power:** Verify that the power cord is securely connected to both the switch and the power outlet. Check if the power outlet is functional.
- **No Link on a Port:** Ensure the Ethernet cable is properly connected at both ends. Check the cable for damage. Verify that the connected device is powered on and functioning correctly.
- Cannot Access Management Interface: Confirm your computer's IP address is in the same subnet as the switch's management IP. Check physical connections. If using Omada SDN, ensure the controller is running and the switch is adopted.
- **Network Performance Issues:** Check for excessive network traffic or loops. Review QoS settings if configured. Ensure all devices are operating at their expected speeds.
- Factory Reset: If issues persist and you have backed up your configuration, consider performing a factory reset. Refer to the Quick Installation Guide or the full user manual for instructions on how to perform a factory reset.

#### 8. Specifications

Feature	Detail
Product Dimensions	11.57"L x 7.09"W x 1.73"H (294mm x 180mm x 44mm)
Item Weight	2.64 pounds (1.2 Kilograms)
Case Material	Metal
Upper Temperature Rating	40 Degrees Celsius
Interface Type	RJ45
Data Transfer Rate	1000 Megabits Per Second (Gigabit)
Current Rating	1 Amps
Manufacturer	TP-Link
UPC	840030702464
ASIN	B092C1VM7T
Item model number	TL-SG3210 V3
Number of Ports	8 Gigabit RJ45, 2 Gigabit SFP
Color	Black
Compatible Devices	PC and other network devices

# 9. WARRANTY AND TECHNICAL SUPPORT

TP-Link provides a **5-year manufacturer warranty** for the TL-SG3210 V3 switch, ensuring long-term reliability and peace of mind. Additionally, free **24/7 technical support** is available to assist you with any questions or issues you may encounter.

## **Contact Information:**

• Phone: (866) 225-8139

Website: myproducts.tp-link.com/usEmail: support.USA@tp-link.com



Figure 9.1: TP-Link support contact information for assistance.

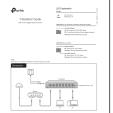
# Related Documents - TL-SG3210 V3

<b>₽</b> tp-link	
Configuration Guide	TP-Link T1500 Series Configuration Guide Comprehensive guide for configuring TP-Link T1500 series JetStream managed network switches, covering web interface and CLI setup, system management, physical interface configurations, and
1990/EVI A AUGIF 1990 GPVTN, AUGIR WOW CHE MAIN WOW CHE MAIN	security features.
<b>₽</b> tp-fink . But resulted survey broken	
Installation Guide	TP-Link JetStream L2/L2+ Managed Switch Installation Guide  Comprehensive installation guide for TP-Link JetStream L2/L2+ Managed Switches, covering hardware overview, installation procedures, connection methods, and basic configuration. Includes
JetSham LSL2+ Managed Selton	safety precautions and troubleshooting tips for models like TL-SX3206HPP, TL-SG3210XHP-M2, TL-SG3428MP, and more.



#### TP-Link Business Switches and Routers: Products Guide 2022

Explore TP-Link's comprehensive range of business switches and routers, designed for small and medium businesses. This guide covers JetStream L2+ Managed Switches, Easy Smart Switches, Unmanaged Switches, and Business Routers, highlighting features like PoE, 10G/2.5G connectivity, and Omada SDN integration for professional, reliable, and secure wired networking solutions.



#### 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 Omada Pro S6500-48G6XF L3 Managed Switch Datasheet

Detailed datasheet for the TP-Link Omada Pro S6500-48G6XF, a 48-port Gigabit Stackable L3 Managed Switch with 6 10G SFP+ slots. Features include advanced L3 routing capabilities, comprehensive security strategies, high availability, and centralized cloud management via the Omada app or web interface. Includes specifications, software features, and ordering information.



#### TP-Link Business Switches and Routers: Comprehensive Product Guide

Explore TP-Link's extensive range of business networking solutions, including JetStream and LiteWave switches, Omada VPN routers, and SafeStream load balance routers. This guide details product features, specifications, and solutions for various business needs such as ISP networks, surveillance, hospitality, and education.