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Sodola 8X10G SFP+(L3 Managed)

SODOLA 8 Port 10G L3 Managed SFP+ Network Switch User Manual

Model: 8X10G SFP+(L3 Managed)

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, configuration, and operation of your SODOLA 8 Port 10G L3 Managed SFP+ Network Switch. This device is designed to deliver high-speed network connectivity and advanced management capabilities for demanding network environments. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your product package. If any item is missing or damaged, please contact your vendor.

- SODOLA 8 Port 10G Managed Ethernet Switch (Model: SL-SWTGW3C8F)
- Power Adapter x 1
- Console Cable x 1
- Footrests x 4
- Product Manual x 1

Note: SFP+ transceivers are NOT included and must be purchased separately.

3. PRODUCT OVERVIEW

3.1 Front Panel

The front panel of the SODOLA 8 Port 10G L3 Managed SFP+ Network Switch features eight SFP+ ports, a console port, and LED indicators for system status and power.



Image 3.1: Front view of the SODOLA 8 Port 10G L3 Managed SFP+ Network Switch, showing the eight SFP+ ports, console port, and status LEDs.

- **SFP+ Ports (1-8):** Eight 10Gb SFP+ ports for high-speed fiber or DAC connections. These ports support 1G, 2.5G, and 10G SFP+ modules.
- **Console Port:** RJ45 port for command-line interface (CLI) access.
- **SYS LED:** System status indicator.
- **PWR LED:** Power indicator.
- **Reset Button:** Press and hold for 8 seconds to restore factory settings.

3.2 Rear Panel

The rear panel includes mounting holes, ground screws, and the DC power input.

8-Port 10GbE Layer 3 Managed SFP+ Network Switch

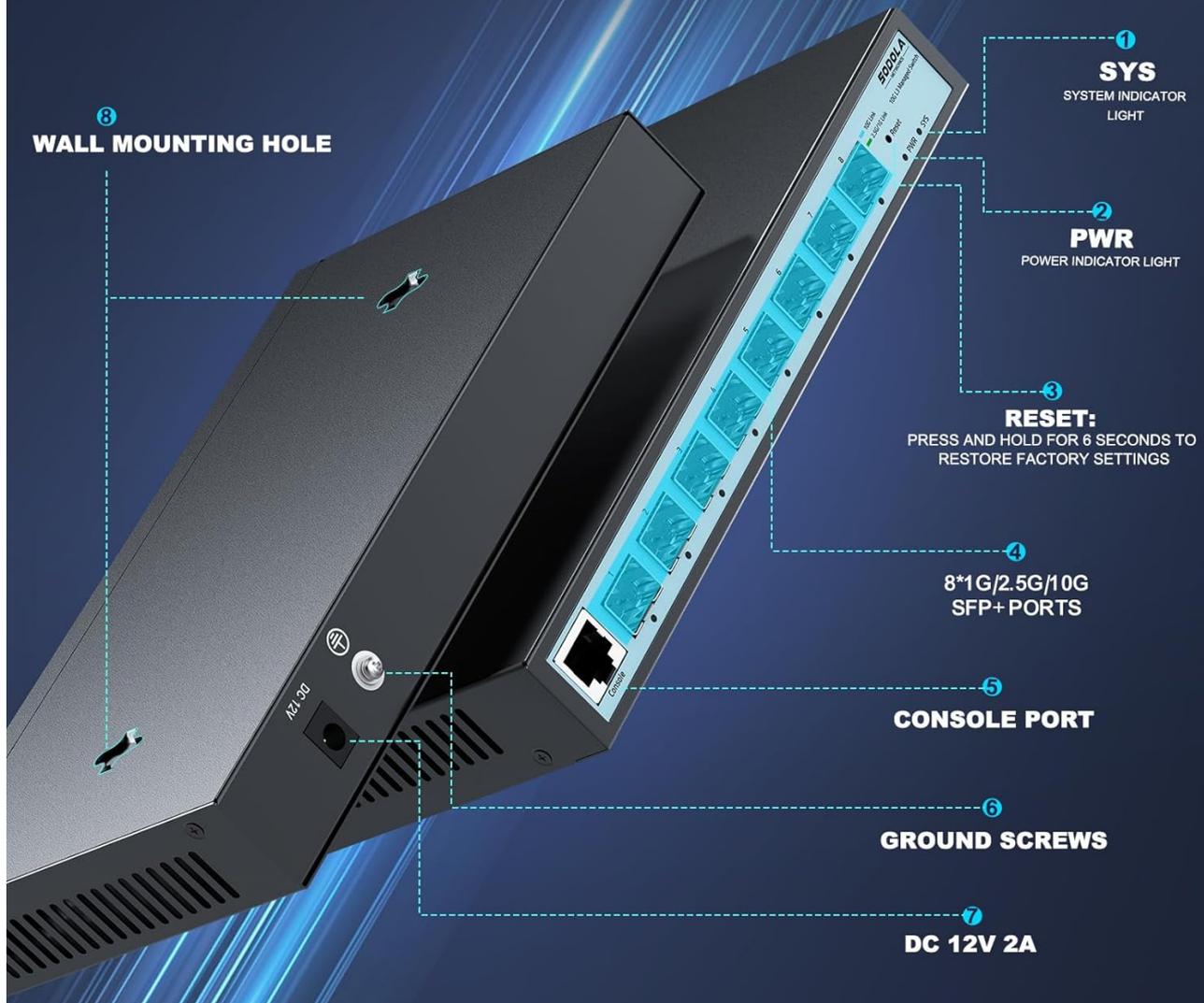


Image 3.2: Rear view of the SODOLA 8 Port 10G L3 Managed SFP+ Network Switch, highlighting wall mounting holes, DC power input, and ground screws.

- **Wall Mounting Holes:** For secure wall installation.
- **DC 12V 2A Input:** Power connection for the switch.
- **Ground Screws:** For grounding the device to prevent electrical interference.

4. SETUP

4.1 Hardware Installation

The switch supports both desktop placement and wall mounting.

Comprehensive Safety Protection

Quadruple
Binding

ARP
Protection

IP Source
Guard

DoS
Defense

802.1X
Authentication

DHCP
Snooping



Image 4.1: Illustration of the SODOLA switch in both desktop and wall-mounted configurations.

1. **Desktop Placement:** Attach the provided footrests to the bottom of the switch and place it on a stable, flat surface. Ensure adequate ventilation around the device.
2. **Wall Mounting:** Use appropriate screws (not included) to secure the switch to a wall using the wall mounting holes on the rear panel. Ensure the mounting surface is strong enough to support the switch's weight.
3. **Power Connection:** Connect the power adapter to the DC 12V 2A input on the rear panel and plug it into a power outlet. The PWR LED on the front panel should illuminate.
4. **Grounding:** For optimal safety and to prevent electrical interference, connect a grounding wire (not included) to the ground screws on the rear panel and to a suitable ground source.

4.2 Initial Configuration (Web Management Interface)

The switch is managed via a web-based interface. Follow these steps for initial access:

Support Desktop & Wall-Mounted



Image 4.2: Steps for accessing the web management interface, including adjusting PC network settings and logging in.

1. **Connect PC:** Connect your computer directly to one of the SFP+ ports using a compatible SFP+ module and cable. Ensure your PC's network adapter is configured to operate at 10G or 2.5G.
2. **Adjust PC Network Settings:** Temporarily configure your PC's IP address to be in the same subnet as the switch's default IP. The default IP address for the switch is **192.168.2.1**. For example, set your PC's IP to 192.168.2.10 with a subnet mask of 255.255.255.0.
3. **Access Web Interface:** Open a web browser and navigate to <http://192.168.2.1>.
4. **Login:** Enter the default credentials:
 - **User Name:** admin
 - **Password:** admin
5. **Change Default Credentials:** For security purposes, it is highly recommended to change the default username and password immediately after the first login.

5. OPERATION

5.1 Layer 3 Management Features

This L3 Managed switch offers a robust set of features for advanced network control and optimization:

Layer 3 Managed Ethernet Switch with Powerful Software Features

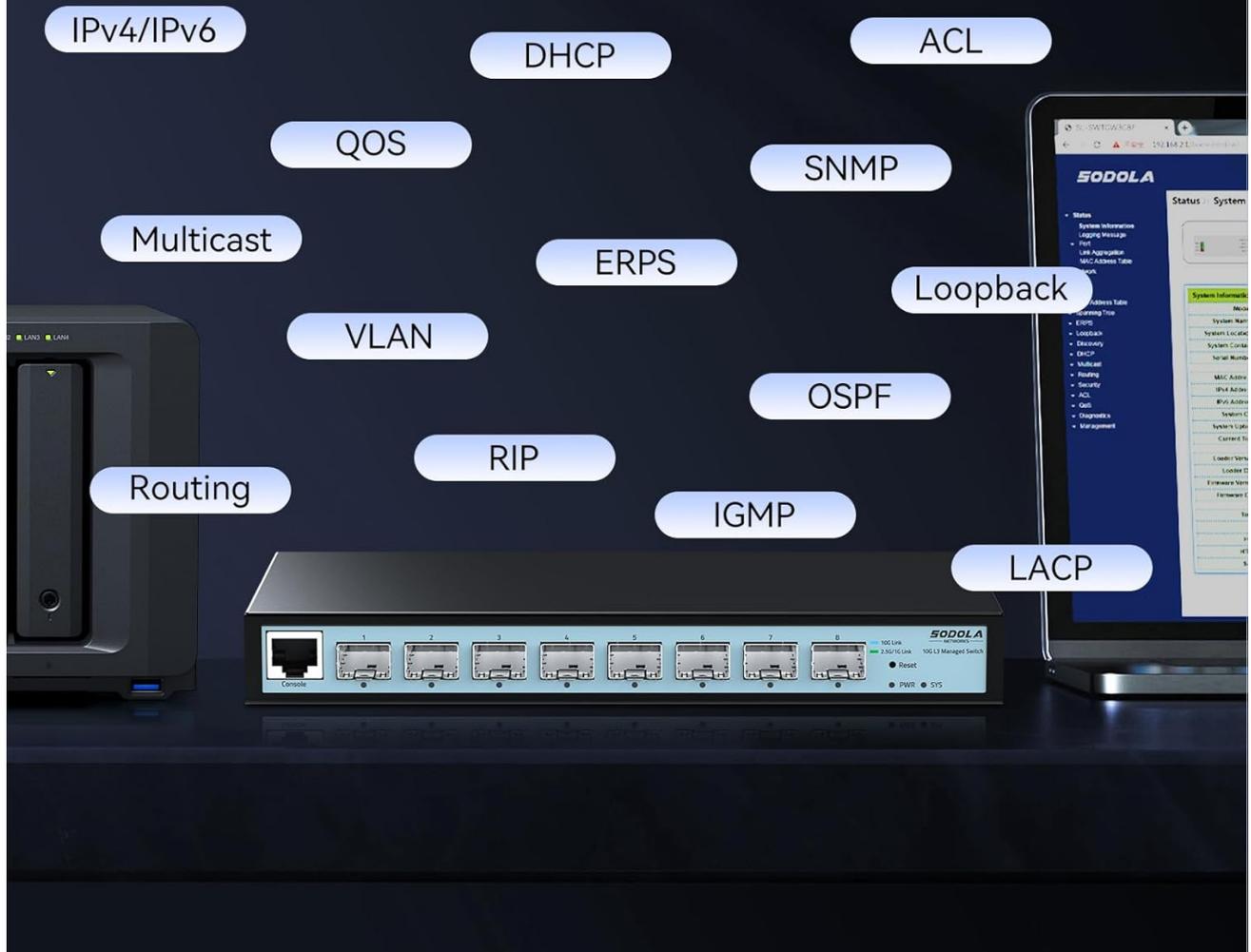


Image 5.1: Visual representation of the Layer 3 management capabilities, including IPv4/IPv6 Routing, DHCP, LACP, VLAN, QoS, IGMP, STP, SNMP, ACL, Multicast, ERPS, Loopback, and OSPF.

- **IPv4/IPv6 Routing:** Enables routing between different IP subnets.
- **DHCP:** Dynamic Host Configuration Protocol for automatic IP address assignment.
- **LACP (Link Aggregation Control Protocol):** Combines multiple physical links into a single logical link for increased bandwidth and redundancy.
- **VLAN (Virtual Local Area Network):** Segments the network into logical broadcast domains for improved security and performance.
- **QoS (Quality of Service):** Prioritizes network traffic to ensure critical applications receive sufficient bandwidth.
- **IGMP (Internet Group Management Protocol):** Manages multicast group memberships.
- **STP (Spanning Tree Protocol):** Prevents network loops.
- **SNMP (Simple Network Management Protocol):** Allows network administrators to monitor and manage network devices.
- **ACL (Access Control List):** Filters network traffic based on defined rules.
- **DoS Defense:** Protects against Denial of Service attacks.

- **OSPF (Open Shortest Path First):** A routing protocol for large enterprise networks.

Detailed configuration guides for each feature are available within the web management interface.

5.2 Port Speed Configuration

The SFP+ ports on this switch are adaptive, supporting 1G, 2.5G, and 10G speeds. By default, ports auto-negotiate 10G/2.5G. To connect 1G devices, manual configuration is required.

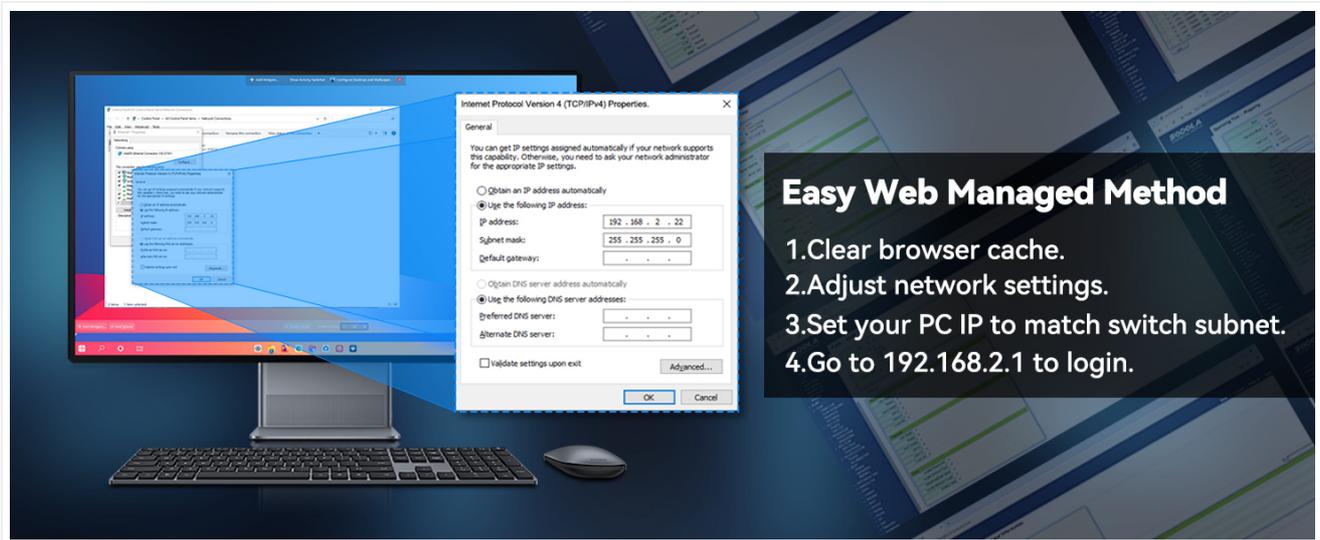


Image 5.2: Web interface showing port settings for manual speed configuration (10G/2.5G or 10G/1000M).

1. **Login:** Access the web management interface.
2. **Navigate to Port Settings:** Locate the "Port Setting" section in the management interface.
3. **Select Port:** Choose the specific SFP+ port you wish to configure.
4. **Set Speed:** Manually set the port speed to 10G/1G for 1G devices, or 10G/2.5G for 2.5G devices, ensuring compatibility with your SFP+ module and connected device.
5. **Apply Settings:** Click "Apply" to save the changes.
6. **Save Configuration:** After making any changes, navigate to the "Tools" or "System" section and select "Save" to permanently store the configuration. Changes are not saved across power cycles until explicitly saved.

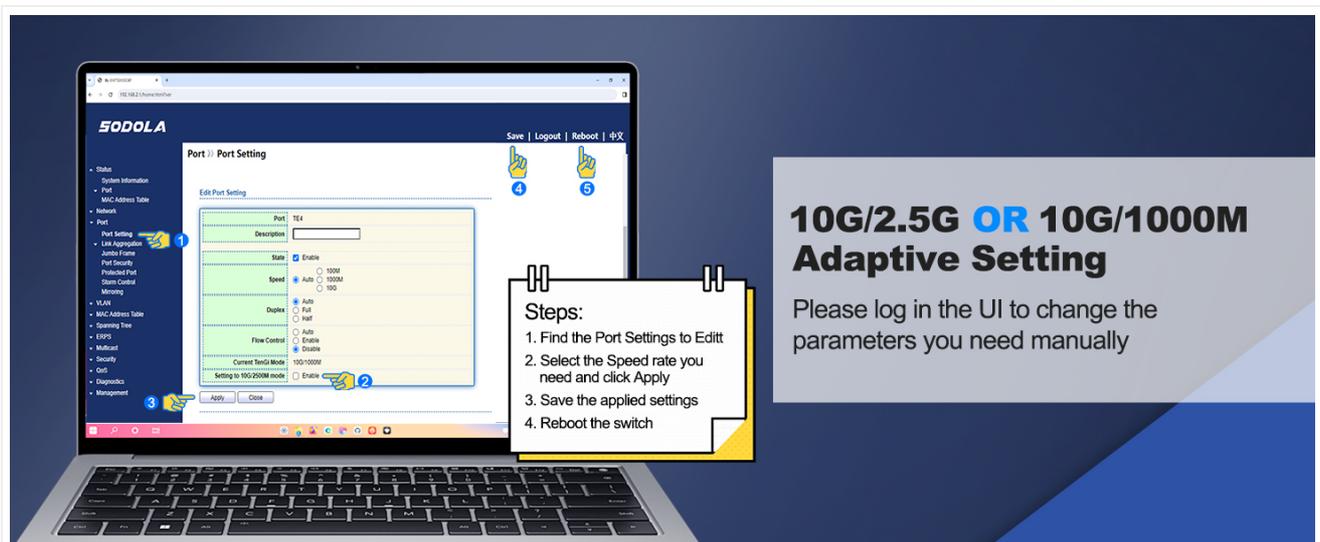


Image 5.3: Reminder to save configuration changes within the web interface to ensure they persist after a power cycle.

6. MAINTENANCE

6.1 Fanless Design

The SODOLA switch features a fanless design, ensuring silent operation and reducing power consumption. This design relies on natural heat dissipation through its metal casing. Ensure the switch is placed in a location with adequate airflow to prevent overheating.

6.2 Safety and Protection

The switch incorporates several safety and protection features to ensure stable and reliable operation:



Image 6.1: Overview of the switch's comprehensive safety features, including Quadruple Binding, ARP Protection, IP Source Guard, DoS Defense, 802.1X Authentication, and DHCP Snooping.

- **6KV Lightning Protection:** Provides protection against electrical surges, enhancing stability during adverse weather conditions.
- **Quadruple Binding:** Enhances network security by binding IP, MAC, VLAN, and Port information.
- **ARP Protection:** Defends against ARP spoofing attacks.
- **IP Source Guard:** Prevents unauthorized IP addresses from accessing the network.
- **DoS Defense:** Mitigates various Denial of Service attacks.
- **802.1X Authentication:** Provides port-based network access control.
- **DHCP Snooping:** Filters untrusted DHCP messages.

7. TROUBLESHOOTING

- **Cannot access web management interface:**
 - Ensure your PC's IP address is in the same subnet as the switch (default 192.168.2.1).
 - Verify that all devices in the connection chain (switch port -> module -> cable -> PC/NIC) are operating at the SAME speed (e.g., all 10G or all 2.5G). Mixed speeds can block access.
 - Clear your browser cache.
 - Try using a different web browser.
 - Ensure the switch is powered on and the SYS LED is stable.
- **1G device not connecting or slow:**
 - The default port rate is 10G/2.5G adaptive. To connect 1G devices, you must manually set the port speed to 10G/1G via the management interface.

- Ensure you are using 1G-compatible SFP+ modules and cables for 1G connections.
- **Configuration changes are lost after reboot:**
 - Always remember to explicitly save your configuration changes through the web management interface (e.g., "Tools" -> "Save") after making adjustments. Changes are not automatically saved to persistent memory.
- **Network loops or instability:**
 - Ensure Spanning Tree Protocol (STP) or Rapid Spanning Tree Protocol (RSTP) is enabled on the switch to prevent network loops, especially in complex topologies.
- **Management interface crashes when sending large ICMP packets:**
 - Avoid sending excessively large ICMP packets (e.g., 9K MTU ICMPs) directly to the switch's management interface, as this may cause it to become unresponsive, requiring a power cycle.
- **SFP+ modules not detected:**
 - Ensure the SFP+ modules are fully inserted and compatible with the switch.
 - Verify that the modules are functioning correctly.

8. SPECIFICATIONS



Image 8.1: Detailed specifications and dimensions of the SODOLA 8 Port 10G L3 Managed SFP+ Network Switch.

Feature	Description
Model	SL-SWTGW3C8F (8X10G SFP+(L3 Managed))
Interface Type	8 * 10G SFP+ Ports (Transceivers NOT Included)
Switching Capacity	160Gbps
Packet Forwarding Rate	119.04Mpps
Packet Buffer	12Mbit
MAC Address Table	16K
Jumbo Frame	10K

Surge Protection	6KV
Power Supply	12V 2A
No-load Power	3.7W
Operating Temperature	0~40°C
Product Dimensions	222 x 126 x 28 mm (8.66 x 4.96 x 1.1 inches)
Item Weight	0.91 Kilograms (2.01 pounds)
Case Material	Metal
Compatible Devices	Desktop, Laptop, Router

9. WARRANTY AND SUPPORT

SODOLA products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or contact your point of purchase. While direct manufacturer support contact information is not always publicly available, for technical assistance or troubleshooting, please refer to the comprehensive documentation within the web management interface or consult the vendor from whom the product was purchased.

Regularly check the manufacturer's website (if available) for firmware updates and additional resources.

Related Documents - 8X10G SFP+(L3 Managed)

	<p>SODOLA 2.5G Ethernet Switch: 6-Port & 9-Port with 10G SFP - Product Overview and Specifications</p> <p>Detailed overview of SODOLA's 2.5G Ethernet switches, featuring 6-port and 9-port models with 10G SFP uplink. Includes technical specifications, main features, and product details for small to medium enterprises.</p>
<p>Smart-Web Switches SL-AFGW-242S-400</p> <p>Web Manual</p> <p>Ver. 1.1</p>	<p>SODOLA SL-AFGW-242S-400 Smart-Web Switch Web Manual</p> <p>This web manual provides comprehensive configuration and management details for the SODOLA SL-AFGW-242S-400 Smart-Web Switch. It covers system information, IP settings, user accounts, port configuration, PoE settings, VLAN, QoS, loop prevention, IGMP Snooping, SNMP, Link Aggregation, Port Mirroring, Port Isolation, Bandwidth Control, Jumbo Frames, MAC Constraint, EEE, security features like MAC address management and Storm Control, monitoring tools, and system utilities such as firmware upgrade, backup, reset, save, and reboot.</p>
<p>Smart-Web Switch SL902-SWTGW215AS</p> <p>Web Manual</p> <p>Ver. 1.1</p>	<p>Smart-Web Switch SL902-SWTGW215AS Web Manual</p> <p>This manual provides detailed instructions for configuring and managing the Smart-Web Switch SL902-SWTGW215AS. It covers topics such as web page login, switch monitoring, port settings, VLAN configuration, loop configuration, QoS settings, advanced features like DHCP snooping and storm control, and system management.</p>



[1G/10G/25G/40G/100G Optical Transceiver Troubleshooting Manual](#)

This manual provides a comprehensive guide to troubleshooting issues with 1G/10G/25G/40G/100G optical transceivers. It covers common failure scenarios, physical layer parameters, switch system overviews, and detailed troubleshooting steps for both Cumulus and MLNX-OS systems. The guide includes information on module specifications, encoding methods, digital diagnostic monitoring, and common fault analysis.



[24-Port Gigabit SFP+ 4-Port 10G L3 Managed Ethernet Switch Quick Installation Guide](#)

Quick installation guide for the 24-Port Gigabit SFP, 8-Port Gigabit Combo, and 4-Port 10G SFP+ L3 Managed Ethernet Switch. Covers packing list, safety information, installation procedures (rack, desktop, wall-mount), power connection, startup, factory settings, network access, and specifications.



[MokerLink 2G05110GSM: 5-Port 2.5G & 1-Port 10G SFP+ Web Managed Switch](#)

Detailed specifications and features of the MokerLink 2G05110GSM, a 5-port 2.5G and 1-port 10G SFP+ web managed network switch designed for high-speed, silent operation in enterprise environments.