Sodola 24X2.5G+2X10G SFP+(Managed)

SODOLA 24 Port 2.5G Smart Web Managed Switch User Manual

Model: 24X2.5G+2X10G SFP+(Managed) | Brand: Sodola

1. INTRODUCTION

This manual provides detailed instructions for the installation, configuration, and operation of your SODOLA 24 Port 2.5G Smart Web Managed Switch. This device is designed to enhance network performance with its multi-gigabit capabilities, offering 24x 2.5G Base-T ports and 2x 10G SFP+ ports for high-speed data transfer and flexible network expansion. Please read this manual thoroughly before using the product to ensure proper setup and functionality.

2. SAFETY INFORMATION

- Ensure the device is installed in a well-ventilated area to prevent overheating.
- Use only the provided power adapter.
- Do not expose the switch to water or excessive humidity.
- Avoid placing heavy objects on the switch.
- For indoor use only.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x SODOLA 24 Port 2.5G Smart Web Managed Switch
- 1 x User Manual
- 1 x Power Cord

4. PRODUCT OVERVIEW

The SODOLA 24 Port 2.5G Smart Web Managed Switch is designed for robust network environments, offering a combination of high-speed Ethernet and SFP+ ports.

Figure 4.1: Overall view of the SODOLA 24 Port 2.5G Smart Web Managed Switch.

4.1 Front Panel

Figure 4.2: Detailed view of the switch's front and rear panels, highlighting ports and indicators.

- **24 x 100/1000/2500M RJ45 Ports:** These ports support 2.5 Gigabit Ethernet connectivity. Each port has Link/Act LEDs: Green for 2.5G Link/Act, Yellow for 10/100/1000M Link/Act, and flashing for data transmission.
- **2 x 10G SFP+ Ports:** These ports provide high-speed 10 Gigabit fiber connectivity for uplinks or connecting to high-bandwidth devices.
- **Reset Button:** Press and hold for 6 seconds to restore factory settings.
- **PWR LED:** Power indicator light.
- **SYS LED:** System indicator light.

4.2 Rear Panel

- **AC 100-240V Power Input:** Connect the provided power cord here.
- **Cooling Fan:** The switch features a bilateral cooling design without a built-in fan for silent operation.

5. SETUP INSTRUCTIONS

5.1 Physical Installation

1. **Mounting:** The switch supports 1U rack mounting. Ensure adequate space for ventilation. It can also be placed on a desktop.
2. **Connect Devices:** Connect your network devices (computers, servers, NAS, WiFi 6 APs) to the RJ45 ports using Cat5e, Cat6, or Cat6a Ethernet cables.
3. **Connect Uplink:** Use the 10G SFP+ ports for high-speed connections to your router or other core network devices.
4. **Power On:** Connect the power cord to the switch and then to a power outlet. The PWR LED should illuminate.

5.2 Initial Web Management Access

To access the web management interface:

1. **IP Address Configuration:** Before logging in, ensure your computer's IP address is set within the same IPv4 subnet as the switch's default IP address (e.g., if the switch is 192.168.2.1, set your computer to 192.168.2.X, where X is not 1).
2. **Open Web Browser:** Use a compatible web browser (e.g., IE 9.0+, Chrome 23.0+, Firefox 20.0+).
3. **Enter IP Address:** Type the default IP address of the switch (192.168.2.1) into the browser's address bar and press Enter.
4. **Login:** Enter the default credentials:
   Username: admin
   Password: admin

Figure 5.1: Screenshot of the web management interface login page.

6. OPERATING INSTRUCTIONS (WEB MANAGEMENT)

The web management interface allows for configuration, monitoring, and troubleshooting without requiring command-line interface (CLI) expertise. Key features include:

Figure 6.1: Visual representation of the switch's basic management features.

- **Link Aggregation (LACP):** Combine multiple physical links into a single logical link for increased bandwidth and redundancy.
- **VLAN (Virtual Local Area Network):** Segment your network into smaller, isolated broadcast domains for improved security and performance.
- **QoS (Quality of Service):** Prioritize network traffic to ensure critical applications receive sufficient bandwidth.
- **Multicast:** Efficiently deliver data to multiple recipients simultaneously.
- **MAC Address Management:** Control access to the network based on MAC addresses.
- **RSTP (Rapid Spanning Tree Protocol):** Prevent network loops and ensure network stability.
- **Jumbo Frames:** Support larger Ethernet frames for increased data throughput.
- **Loop Detection:** Identify and mitigate network loops.
- **ERPS (Ethernet Ring Protection Switching):** Provide fast protection and recovery switching in Ethernet ring topologies.

6.1 Saving Configuration

After making any changes in the web interface, navigate to**Tools > Save** to ensure your settings are permanently stored and not lost upon power cycling the device.

7. MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure the ventilation openings on the sides of the switch are not obstructed. The fanless design relies on natural convection for cooling.
- **Firmware Updates:** Periodically check the manufacturer's website for any available firmware updates to ensure optimal performance and security.

Figure 7.1: Illustration of the switch's efficient fanless cooling design.

8. TROUBLESHOOTING

8.1 Common Issues and Solutions

- **No Power:** Check if the power cord is securely connected to both the switch and the power outlet. Verify the power outlet is functional.
- **No Link/Activity on Port:** Ensure the Ethernet cable is properly connected to both the switch port and the connected device. Verify the connected device is powered on and functioning correctly. Try a different cable or port.
- **Slow Network Speed:** Ensure all connected devices and cables support 2.5G or 10G speeds for optimal performance. Check for network congestion or duplex mismatches in the web interface.
- **Cannot Access Web Interface:**
  - Verify your computer's IP address is in the same subnet as the switch's IP.
  - Confirm the switch's IP address (default is 192.168.2.1).
  - Ensure the web browser is compatible.

- If the management interface becomes unresponsive, a power cycle may resolve the issue.
- **Network Instability:** Ensure Spanning Tree Protocol (STP) or Rapid Spanning Tree Protocol (RSTP) is enabled to prevent network loops, especially in complex network topologies.
- **Configuration Loss:** Always remember to save your configuration changes via **Tools > Save** in the web interface.

8.2 Factory Reset

If you encounter persistent issues or forget your login credentials, you can restore the switch to its factory default settings by pressing and holding the **Reset** button for 6 seconds.
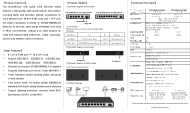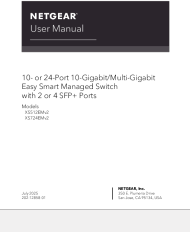
9. SPECIFICATIONS

Brand	Sodola
Model Number	24X2.5G+2X10G SFP+(Managed)
Number of Ports	26 (24x 2.5G RJ45, 2x 10G SFP+)
Interface Type	RJ45, SFP+
Data Transfer Rate	2500 Megabytes Per Second (2.5Gbps per RJ45 port)
Switching Capacity	160Gbps
Packet Forwarding Rate	119.04Mpps
MAC Address Table Size	16K
Package Cache	12Mbit
Case Material	Metal
Color	Black
Product Dimensions	17.32 x 8.07 x 1.73 inches
Item Weight	5.89 pounds
Compatible Devices	Laptop, Server

10. WARRANTY AND SUPPORT

SODOLA provides a replacement for any quality issue within one year of purchase. For technical support or warranty claims, please refer to your purchase documentation or the retailer where the product was acquired. Please note that official SODOLA website, phone number, or email for direct support may not be readily available.

Related Documents - 24X2.5G+2X10G SFP+(Managed)

	[SODOLA 2.5G Ethernet Switch: 6-Port & 9-Port with 10G SFP - Product Overview and Specifications](#) 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.
Smart-Web Switch SL902-SWTGW215AS Web Manual Ver. 1.0	[Smart-Web Switch SL902-SWTGW215AS Web Manual](#) 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.
Smart-Web Switches SL-AFGW-242S-400 Web Manual Ver. 1.0	[SODOLA SL-AFGW-242S-400 Smart-Web Switch Web Manual](#) 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.
	[NETGEAR XS512EMv2 & XS724EMv2 10-Gigabit Easy Smart Managed Switch User Manual](#) Comprehensive user manual for NETGEAR's 10-Port (XS512EMv2) and 24-Port (XS724EMv2) 10-Gigabit/Multi-Gigabit Easy Smart Managed Switches. Covers installation, configuration, performance optimization, VLANs, management, maintenance, and troubleshooting.
	[S8328XG-4XS24GT-2HP: 10-Gigabit L2+ Managed Power-Hot-Swappable Ethernet Switch](#) Detailed overview and specifications for the S8328XG-4XS24GT-2HP, a 10-Gigabit L2+ managed Ethernet switch featuring 24x 10/100/1000Base-T ports and 4x 1G/2.5G/10G SFP+ ports, designed for high-bandwidth data convergence in enterprise and industrial environments.
	[SMCGS18P-Smart 16-Port Gigabit PoE Web Managed Switch](#) Detailed specifications and features of the SMCGS18P-Smart, an 18-port Gigabit Ethernet Smart Switch with 16 PoE ports and 2 SFP slots, offering advanced management, security, and performance for SMB and SOHO networks.