

## VIMIN VM-S250402P

# VIMIN 6-Port 2.5G PoE Switch (Model VM-S250402P) User Manual

Unmanaged 4x 2.5G PoE Ports + 2x 10G SFP Ports

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VIMIN 6-Port 2.5G PoE Switch (Model VM-S250402P). This unmanaged switch is designed to enhance network performance with its high-speed ports and Power over Ethernet capabilities. Please read this manual thoroughly before using the device.



Figure 1: VIMIN 6-Port 2.5G PoE Switch (Model VM-S250402P)

## 2. PACKAGE CONTENTS

Verify that all items are present and in good condition. If any item is missing or damaged, please contact your vendor.

- 1x VIMIN 6-Port 2.5G PoE Switch (Model VM-S250402P)
- 1x Power Cable
- 4x Ethernet Cables (Cat 6 or above, approximately 1 meter each)
- 1x User Manual

## 3. PRODUCT OVERVIEW

### 3.1 Front Panel

The front panel features the RJ45 ports, SFP ports, LED indicators, and the VLAN switch.



Figure 2: Front Panel Layout and Typical Connection Scenario

### 3.2 Rear Panel

The rear panel typically contains the power input and ventilation openings.



Figure 3: Rear Panel with Ventilation and Power Input

### 3.3 LED Indicators

The LED indicators provide real-time status of the switch's operation.

Indicator	Status	Description
4x 2.5Gbps Ports (Yellow)	On	2.5G Link established
4x 2.5Gbps Ports (Green)	On	Link Success
2x 10G SFP (Yellow)	On	10G Link established
2x 10G SFP (Green)	On	Link Success
PoE Link (Red)	On	PoE Powered
PoE Link (Red)	Off	PoE Off
PWR (Power)	On	Device Powered On

Indicator	Status	Description
PWR (Power)	Off	Device Powered Off

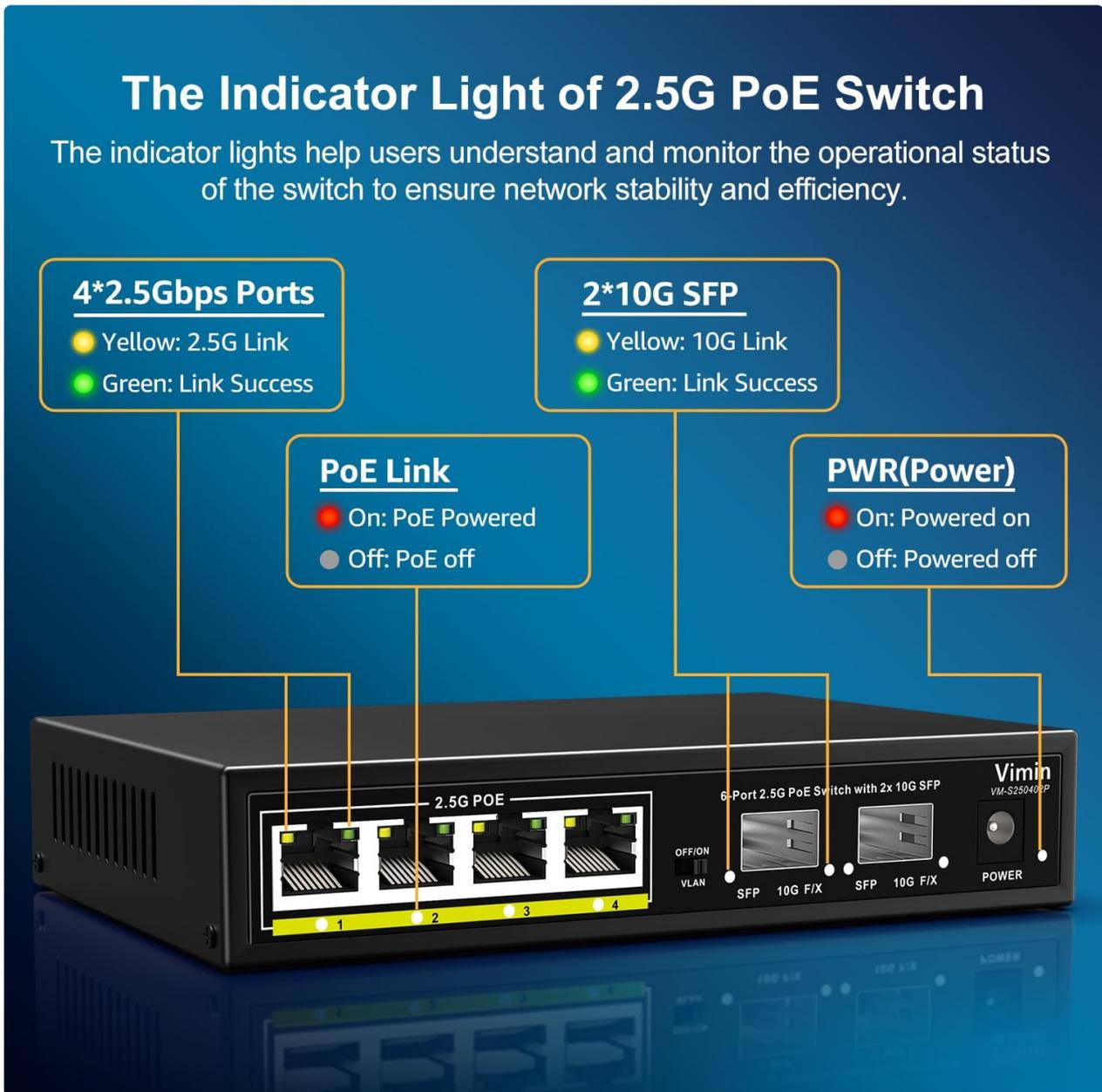


Figure 4: LED Indicator Guide

## 4. SETUP AND INSTALLATION

The VIMIN 6-Port 2.5G PoE Switch is designed for plug-and-play operation, requiring no complex configuration.

### 4.1 Basic Connection Steps

1. **Connect Power:** Plug the power cable into the switch's power input and then into a power outlet.
2. **Connect Devices:** Connect your network devices (e.g., NAS, APs, computers, routers) to the RJ45 ports using Ethernet cables. For 10Gbps connectivity, insert compatible SFP modules into the SFP ports and connect fiber optic cables.
3. **Verify Connection:** Check the LED indicators to ensure proper link and activity.

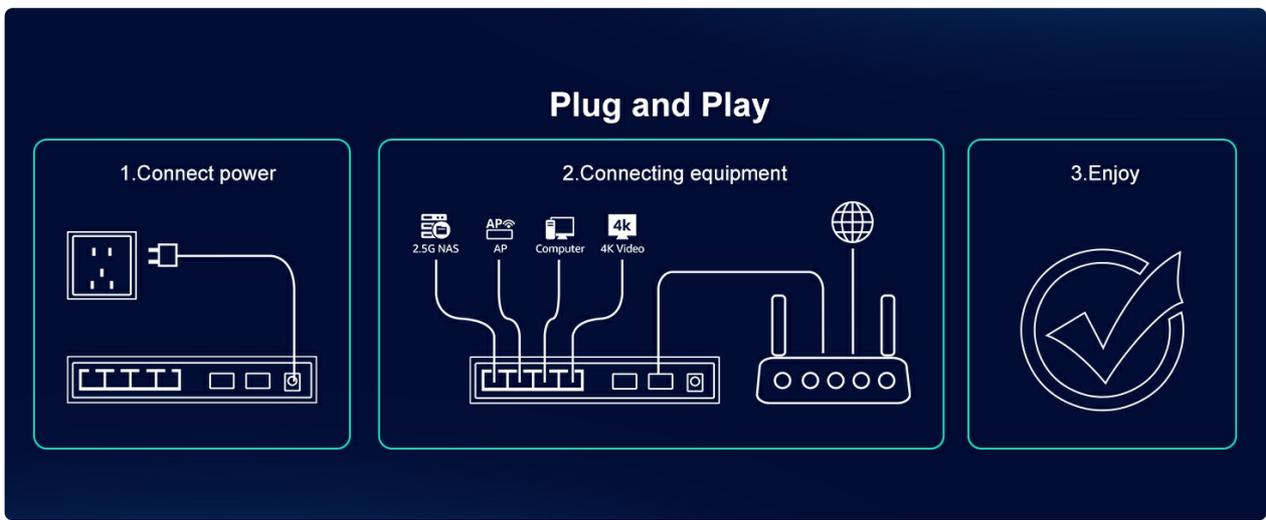


Figure 5: Plug and Play Setup Guide

## 4.2 SFP Module Installation

The switch supports adaptive 1G/2.5G/10G optical fiber modules (modules are NOT included and must be purchased separately).

## Enterprise PoE Ethernet Switch with 2x 10G SFP Ports

With outstanding switching performance and ultra-low latency,  
ensuring efficient data transfer and minimal delays.

Adaptive 1g/2.5G/10G Optical Fiber Module  
(The module is **NOT** included)

## 5. OPERATION

This unmanaged switch operates automatically once connected. It supports IEEE 802.3af/at standards, providing up to 30W of power per port with a total PoE budget of 65W. It does not support passive PoE.

### 5.1 One-Key VLAN Function

The switch features a One-Key VLAN mode. When activated, ports 1-4 are isolated from each other but maintain communication with the SFP ports. This enhances network security and optimizes bandwidth utilization by preventing direct communication between connected devices on ports 1-4.

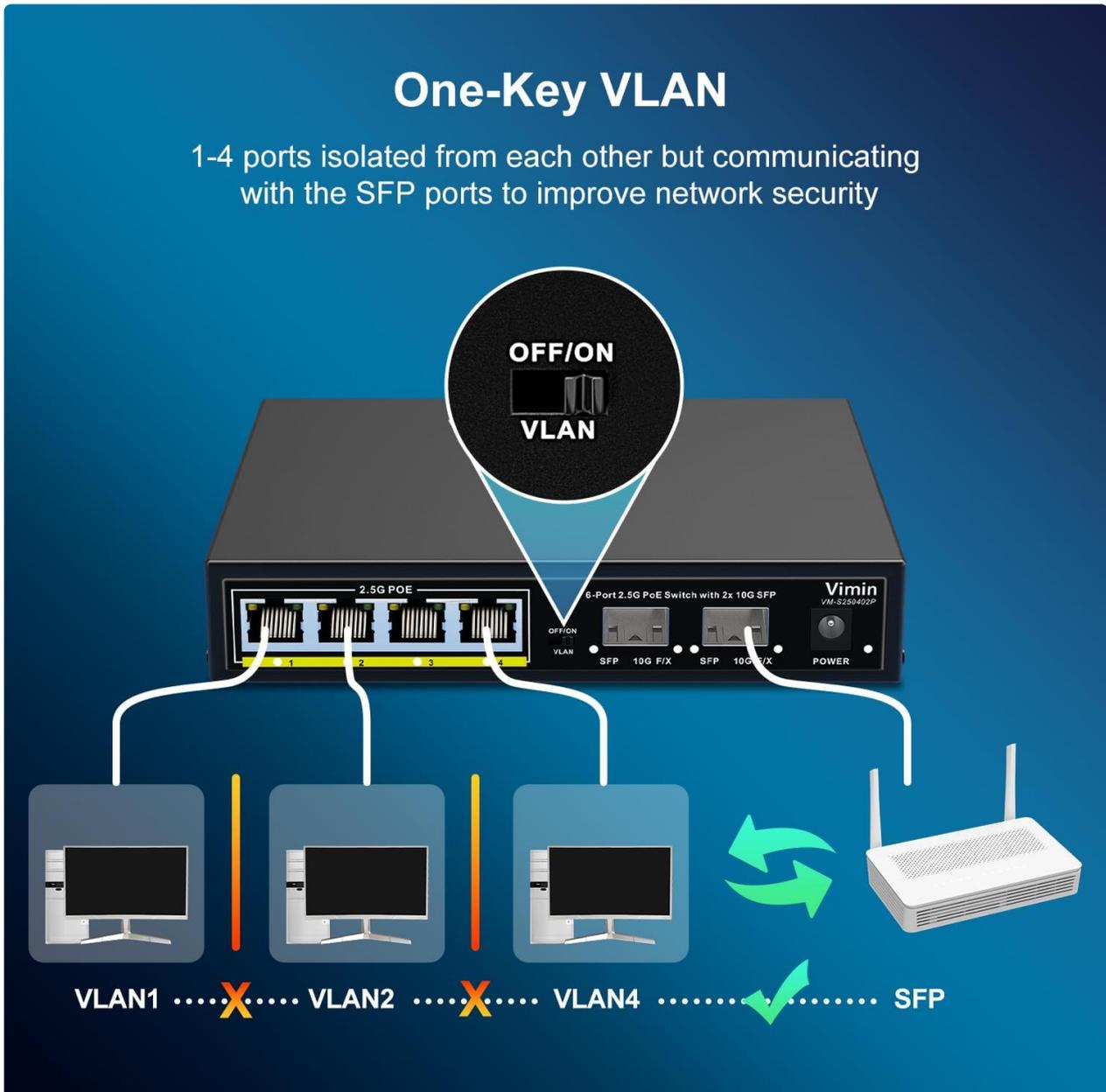


Figure 7: One-Key VLAN Operation

## 6. MAINTENANCE

To ensure optimal performance and longevity of your VIMIN PoE switch, follow these maintenance guidelines:

- **Environment:** Operate the switch within the recommended temperature range of 14°F to 131°F (-10°C

to 55°C).

- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- **Ventilation:** Ensure proper airflow around the device. The fanless design relies on natural convection for heat dissipation.
- **Power:** Use only the provided power adapter.



Figure 8: Durable and Stable Design Features

## 7. TROUBLESHOOTING

If you encounter issues with your VIMIN PoE switch, refer to the following common problems and solutions:

- **No Power:** Ensure the power cable is securely connected to both the switch and the power outlet. Verify the power outlet is functional.
- **No Link Light:** Check if the Ethernet cable is properly connected to both the switch port and the device. Ensure the connected device is powered on and functioning correctly. Try a different cable or port.
- **PoE Device Not Powering On:** Confirm that the connected device is PoE compatible (IEEE 802.3af/at). Check the PoE power budget (65W total, 30W per port) to ensure it's not exceeded. Ensure the PoE Link LED is on.
- **Slow Network Speed:** Verify that all connected devices and cables support 2.5G or 10G speeds. Ensure you are using Cat6 or higher Ethernet cables for optimal performance.
- **VLAN Isolation Issue:** If devices on ports 1-4 are communicating directly, ensure the One-Key VLAN switch is in the 'ON' position.

If the problem persists, please contact VIMIN technical support.

## 8. SPECIFICATIONS

Feature	Description
Model Number	VM-S250402P
Ports	4x 2.5G PoE+ RJ45 Ports, 2x 10G SFP Ports
Switching Capacity	60Gbps
PoE Standard	IEEE 802.3af/at (Does NOT support passive PoE)

Feature	Description
Total PoE Power Budget	65W
Power per Port	Up to 30W
VLAN Function	One-Key VLAN (Isolates ports 1-4, communicates with SFP ports)
Lightning Protection	6KV
Cooling	Fanless Design
Case Material	Metal Housing
Operating Temperature	14°F to 131°F (-10°C to 55°C)
Product Dimensions	6.3 x 4.33 x 1.3 inches (16 x 11 x 3.3 cm)
Item Weight	1.89 pounds (0.86 kg)
UPC	790885573682

## 9. WARRANTY AND SUPPORT

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VIMIN provides a one-year warranty for this product, ensuring reliability, quality, and performance. We also offer lifetime technical support to assist you with any questions or issues.

For technical assistance or warranty claims, please contact VIMIN support:

- **Email:** [support@vimintech.com](mailto:support@vimintech.com)

## 10. PRODUCT VIDEO

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Watch this video for a visual overview of the VIMIN 6-Port 2.5G PoE Switch and its features.

Your browser does not support the video tag.

Video: Overview of the VIMIN 6-Port 2.5G PoE Switch, highlighting its 65W power budget and 60Gbps switching capacity.