VIMIN 4x2.5G Ethernet+2x 10G SFP

VIMIN 6 Port 2.5G Unmanaged Network Switch User Manual

Model: 4x2.5G Ethernet+2x 10G SFP

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, maintenance, and troubleshooting of your VIMIN 6 Port 2.5G Unmanaged Network Switch. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

2. PRODUCT OVERVIEW

The VIMIN 6 Port 2.5G Unmanaged Network Switch is designed to provide high-speed network connectivity for various devices. It features 4x 2.5Gbase-T RJ45 ports and 2x 10G SFP+ ports, offering a total switching capacity of 60Gbps. Its fanless metal housing ensures silent operation and efficient heat dissipation.

Image: The VIMIN 6 Port 2.5G Unmanaged Network Switch in a typical setup, illustrating its high-speed capabilities and connectivity to a computer. Key performance metrics such as 60Gbps Switching Capacity, 44.64Mpps Forwarding Rate, 10KBytes Jumbo Frame, and 4K MAC Address are highlighted.

Image: The VIMIN network switch demonstrating its self-negotiation function, automatically adjusting transmission method and speed according to IEEE 802.3 standards, achieving 2.5Gbps.

Your browser does not support the video tag.

Video: This video provides a visual overview of the VIMIN 6 Port 2.5G Unmanaged Network Switch, showcasing its physical features, port types, and general application in a network environment.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x VIMIN 6-Port 2.5G Unmanaged Network Switch
- 1x User Manual (this document)
- 1x Power Cable
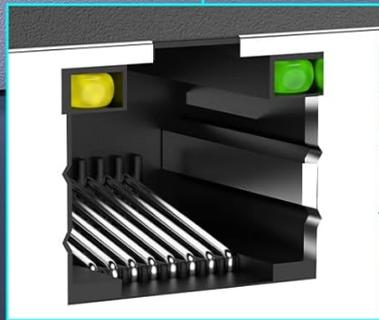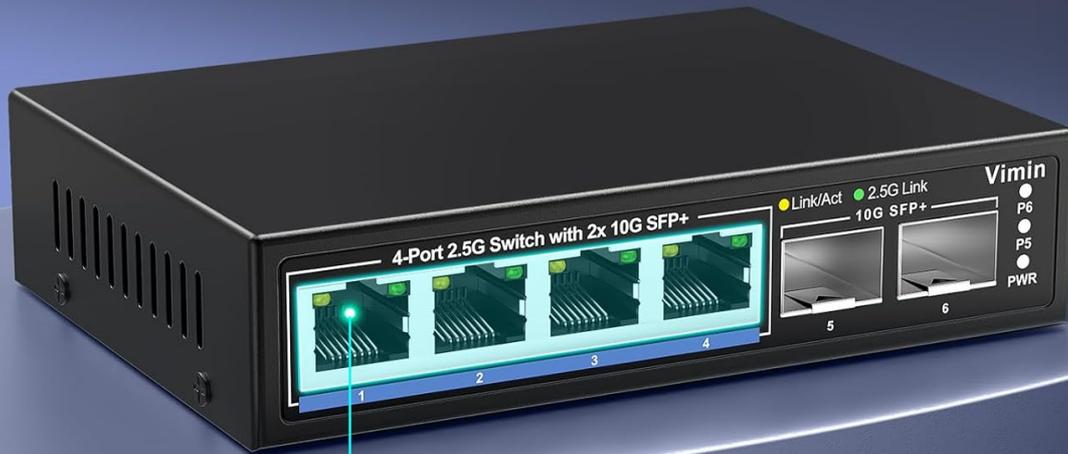
4. SETUP INSTRUCTIONS

The VIMIN 6 Port 2.5G Unmanaged Network Switch is designed for plug-and-play operation, requiring no complex configuration. Follow these steps for basic setup:

1. **Power Connection:** Connect the provided power cable to the switch's DC input port (12V/1A DC) and then to a power outlet. The Power LED (PWR) on the front panel will illuminate.

2. **Ethernet Device Connection:** Connect your network devices (e.g., NAS, wireless AP, PC, router) to the RJ45 ports (1-4) using standard Ethernet cables. The corresponding Link/Act and 2.5G Link LEDs will light up when a valid connection is established and data is being transmitted.

3. **SFP+ Module Installation (Optional):** For 10G connectivity, insert compatible 1G/2.5G/10G optical fiber modules (not included) into the SFP+ ports (5-6). Then, connect appropriate fiber optic cables to these modules. The 10G SFP+ LED will indicate an active connection.

Image: The VIMIN network switch illustrating its plug-and-play functionality and broad compatibility with various devices, including NAS, Access Points, Routers, Computers, 4K Video devices, and Gaming PCs.
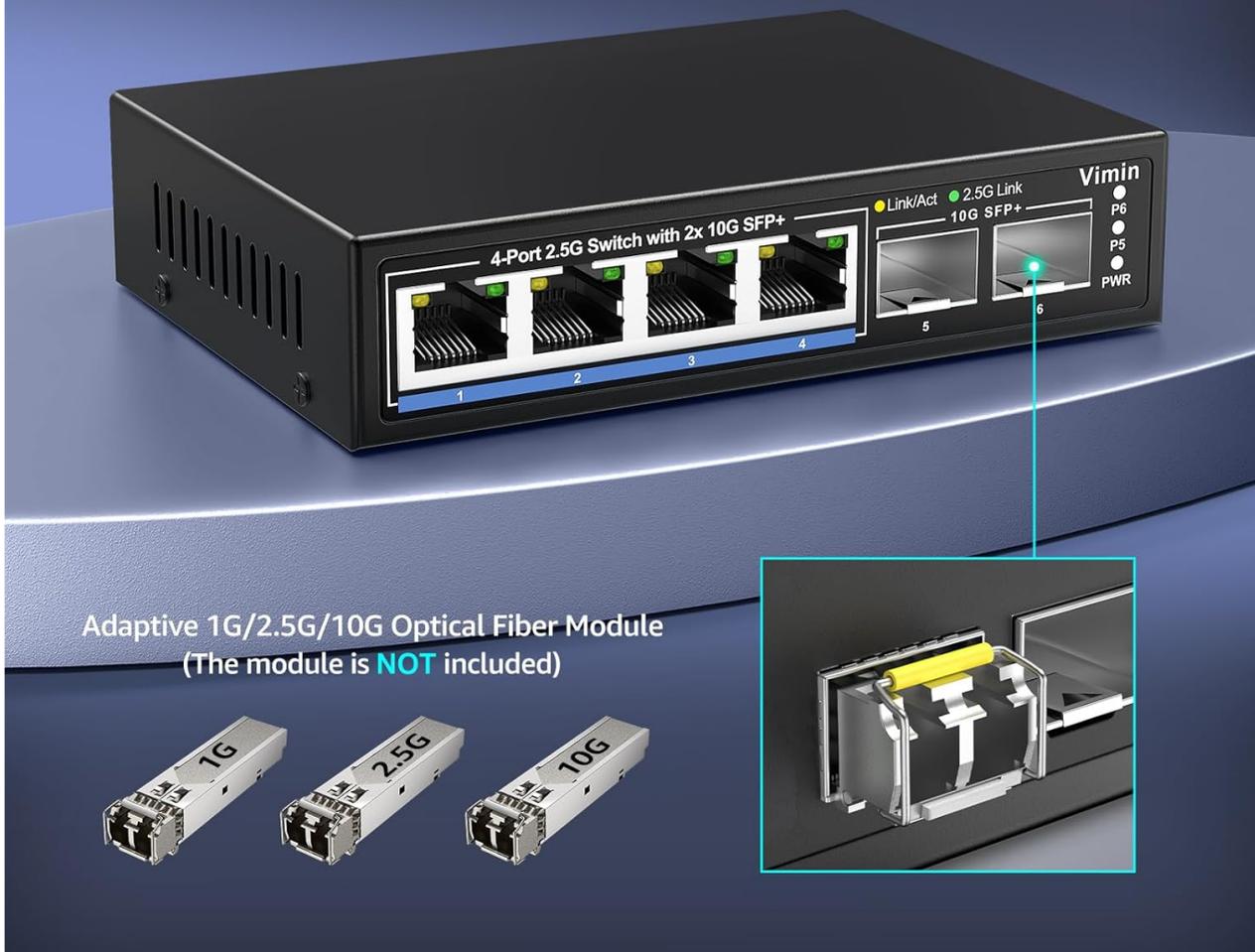
4*10/100/1000/2500Mbps RJ45 Ports

Image: A detailed view of the four 10/100/1000/2500Mbps RJ45 ports on the VIMIN switch, showing the Link/Act (yellow) and 2.5Gbps Link (green) LED indicators for each port.

Image: A close-up of the two 10G SFP+ ports on the VIMIN switch. The image also displays adaptive 1G/2.5G/10G optical fiber modules, which are not included with the switch.

5. OPERATING INSTRUCTIONS

Once connected, the switch operates automatically. It is an unmanaged device, meaning no software configuration is required. Data traffic will be forwarded at wire speed across all ports.

LED Indicators:

- **PWR (Power):** Solid green when the switch is powered on.
- **Link/Act (RJ45 Ports):** Solid yellow when a link is established; blinking yellow indicates data activity.
- **2.5G Link (RJ45 Ports):** Solid green when a 2.5Gbps link is established.
- **10G SFP+ (SFP+ Ports):** Solid green when a 10Gbps link is established; blinking green indicates data activity.

Fanless Design:

The switch features a fanless design, ensuring silent operation. This makes it suitable for noise-sensitive environments such as offices or home setups.

6. MAINTENANCE

To ensure optimal performance and longevity of your VIMIN network switch, consider the following maintenance guidelines:

- **Placement:** Place the switch on a stable, flat surface in a well-ventilated area. Avoid placing it near heat sources or in direct sunlight.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Cable Management:** Ensure network cables are neatly organized and not excessively bent or strained.
- **Power Supply:** Use only the power adapter provided with the switch.

Image: A close-up view of the VIMIN network switch's durable metal housing, which is designed for efficient heat dissipation without the need for a fan.
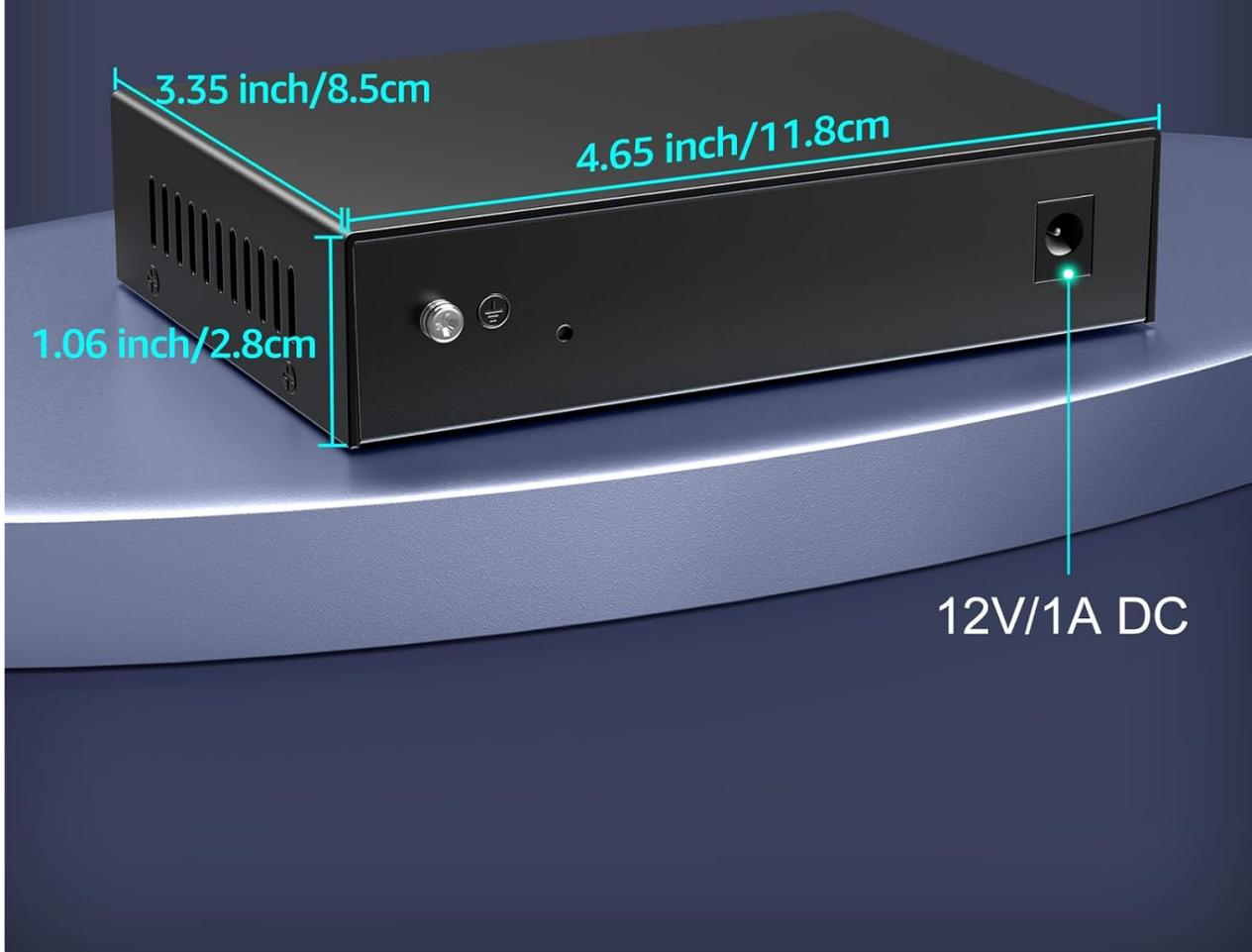
Image: The VIMIN network switch showcasing its compact size (6.3"L x 4.3"W x 1.3"H) and indicating the 12V/1A DC power input port.

7. TROUBLESHOOTING

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

- **No Power:**

  - Ensure the power cable is securely connected to both the switch and a working power outlet.
  - Verify the power outlet is functional.

- **No Link/Activity LED:**

  - Check that the Ethernet or fiber optic cable is securely connected to both the switch port and the network device.
  - Ensure the connected device is powered on and functioning correctly.
  - Try a different cable or port to rule out faulty components.
  - For SFP+ ports, ensure the optical module is correctly inserted and compatible with the switch and the connected device. Some older SFP+ modules may not be compatible.

- **Slow Network Speed:**

  - Verify that your network cables are rated for 2.5G or 10G speeds (e.g., Cat5e or higher for 2.5G, Cat6a or higher for 10G over copper, or appropriate fiber cables for SFP+).
  - Ensure your connected devices (NICs, routers, NAS) also support 2.5G or 10G speeds.
  - Check for network congestion or other devices consuming significant bandwidth.

- **Intermittent Connectivity:**

  - Inspect cables for damage.
  - Ensure the switch is in a stable environment, free from excessive heat or electromagnetic interference.
  - If power cycling is required for devices to connect, ensure all devices are powered on in the correct sequence or consider a power conditioner.

8. SPECIFICATIONS

Feature	Specification
Model Number	4x2.5G Ethernet+2x 10G SFP
Number of Ports	6 (4x 2.5G RJ45, 2x 10G SFP+)
Interface Type	RJ45, SFP+
Data Transfer Rate	60 Gigabits Per Second (Switching Capacity)
Jumbo Frame	10KBytes
MAC Address Table Size	4K
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3bz, IEEE 802.3cb, IEEE 802.3z
Housing Material	Metal
Cooling	Fanless
Product Dimensions	6.3"L x 4.3"W x 1.3"H (16cm x 10.9cm x 3.3cm)
Item Weight	14.1 ounces (400g)
Upper Temperature Rating	55 Degrees Celsius
UPC	790885826450

9. WARRANTY AND SUPPORT

VIMIN provides a one-year after-sales service and lifetime technical support for this product. For technical assistance or warranty inquiries, please contact our support team.

Image: VIMIN customer support details, including the email address support@vimintech.com, information about the professional technical team, and commitment to 24-hour high-quality service.

Email Support: support@vimintech.com