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› TEROW 9-Port 2.5G PoE+ Ethernet Switch User Manual

TEROW TEROW-HG0801XG-P

TEROW 9-Port 2.5G PoE+ Ethernet Switch User Manual

Model: TEROW-HG0801XG-P

1. INTRODUCTION

The TEROW 9-Port 2.5G PoE+ Ethernet Switch is designed to provide high-speed network connectivity with Power over Ethernet capabilities. This unmanaged switch features 8 x 2.5 Gigabit PoE+ ports and 1 x 10G SFP+ port, offering a total PoE power budget of 120W. It supports IEEE 802.3af/at standards, delivering up to 30W per port. The device is plug-and-play, requires no configuration, and includes a one-key VLAN mode for enhanced network security. Its durable metal case and fanless design ensure stable and quiet operation across a wide temperature range.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- TEROW 9-Port 2.5G PoE+ Ethernet Switch Body
- Power Adapter
- User Manual

3. PRODUCT OVERVIEW

The TEROW 9-Port 2.5G PoE+ Ethernet Switch provides a robust solution for expanding your network with high-speed and power delivery capabilities. Familiarize yourself with the ports and indicators for proper operation.

8 Port 2.5G Unmanaged Ethernet Switch with 1 Port 10G SFP

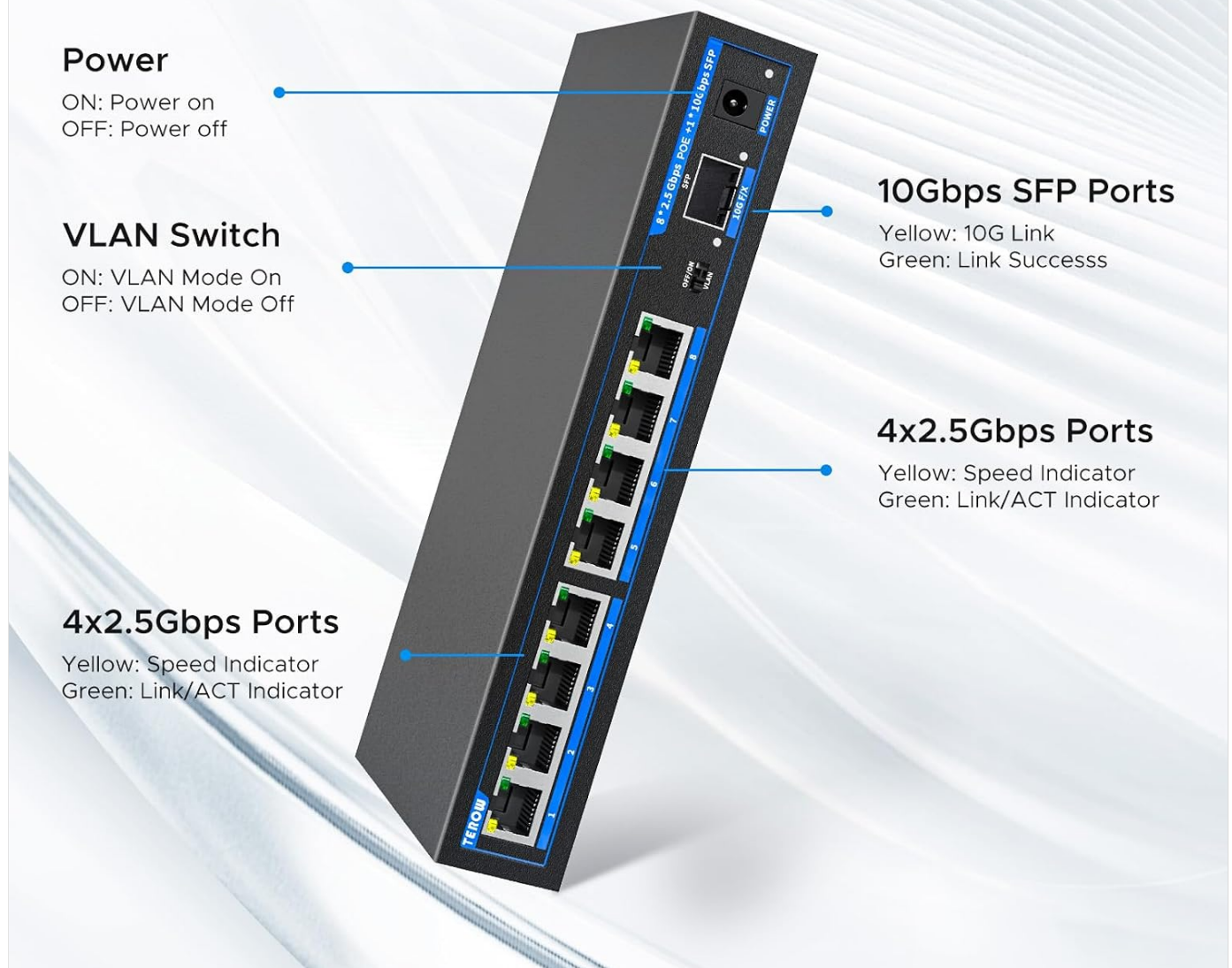


Figure 3.1: Front and side view of the switch with labeled components.

Port Descriptions:

- **8 x 2.5Gbps PoE+ Ports (Ports 1-8):** These ports support 10/100/1000M/2.5G adaptive speeds and Auto MDI/MDIX. They are compliant with IEEE 802.3bz (2.5G) and IEEE 802.3af/at PoE standards, delivering up to 30W per port for connected PoE devices.
- **1 x 10G SFP+ Port:** This port is compatible with 1G/2.5G/10G SFP modules (module not included) for high-speed fiber optic uplink connections.

Indicator Lights:

- **Power LED:** Indicates the power status of the switch.
- **VLAN LED:** Indicates whether the VLAN mode is active.
- **2.5Gbps Ports (Yellow LED):** Indicates speed (Yellow for 2.5G).
- **2.5Gbps Ports (Green LED):** Indicates Link/ACT status.
- **10Gbps SFP+ Port (Yellow LED):** Indicates 10G Link.

- **10Gbps SFP+ Port (Green LED):** Indicates Link Success.

4. SETUP

The TEROW 9-Port 2.5G PoE+ Ethernet Switch is designed for simple plug-and-play installation, requiring no complex configuration. Follow these steps to set up your switch:

1. **Connect Power:** Plug the provided power adapter into the switch's power input and then into a standard electrical outlet. The Power LED will illuminate.
2. **Connect Devices:** Connect your network devices (e.g., IP cameras, wireless access points, computers, routers) to the 2.5Gbps PoE+ ports (Ports 1-8) using Cat 6 or above Ethernet cables. Ensure the network cable is an 8-core Cat 6 or above for optimal performance.
3. **Connect Uplink (Optional):** For high-speed uplink to your core network, insert a compatible 1G/2.5G/10G SFP module into the 10G SFP+ port and connect it to your router or server using an appropriate fiber optic cable.
4. **Verify Connection:** Check the Link/ACT and Speed indicator lights on the connected ports. A solid green light indicates a successful link, and a yellow light on 2.5Gbps ports indicates 2.5G speed.

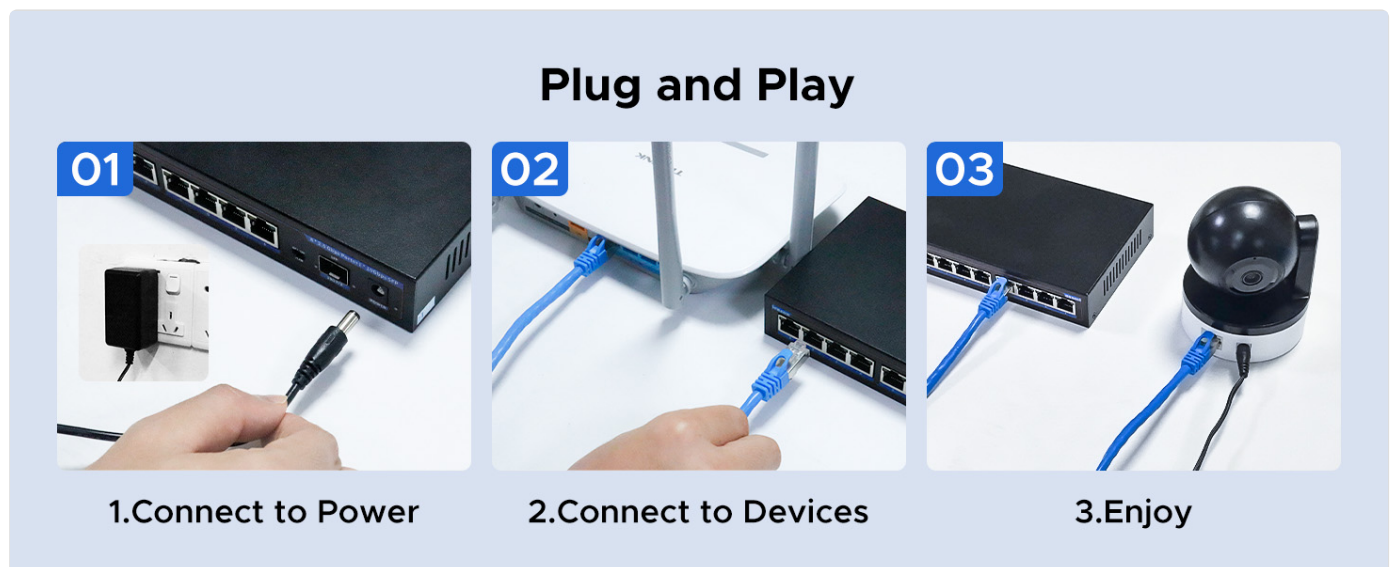


Figure 4.1: Simple plug-and-play connection steps.

Your browser does not support the video tag.

Video 4.1: An overview of the TEROW 2.5Gb PoE+ Switch, demonstrating its application in home, office, AP, and camera setups.

5. OPERATING INSTRUCTIONS

Power over Ethernet (PoE) Functionality:

The switch's 2.5Gbps ports (Ports 1-8) are PoE+ enabled, providing power and data over a single Ethernet cable. Each port can deliver up to 30W, with a total power budget of 120W for the entire switch. This is ideal for powering devices such as IP cameras, VoIP phones, and wireless access points without the need for separate power adapters.



Power Over Ethernet(POE)

With added POE, each port delivers up to 30W, making it versatile for various applications.

Figure 5.1: Example of PoE connection to an IP camera.

One-Key VLAN Mode:

The switch features a physical VLAN button to easily enable or disable VLAN mode. This function enhances network security and performance by isolating specific ports.

- **VLAN ON:** When the VLAN button is switched to the 'ON' position, Ports 1 through 4 are isolated from each other. These ports can only communicate with the SFP+ uplink port. This improves network processing capacity and enhances the security of the local area network by preventing direct communication between devices on isolated ports.
- **VLAN OFF:** When the VLAN button is switched to the 'OFF' position, all ports (1-8 and SFP+) can communicate freely with each other, operating as a standard unmanaged switch.

One-Key Isolated for Enhanced Security

Ports 1-8 are isolated from each other, Protect the normal operation of ports



Figure 5.2: Illustration of VLAN mode for enhanced security.

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Video 5.1: A detailed demonstration of the TEROW 9-Port Ethernet Switch, highlighting its unmanaged features and 2.5G PoE+ capabilities.

6. MAINTENANCE

The TEROW 9-Port 2.5G PoE+ Ethernet Switch is designed for low maintenance and reliable operation.

- **Fanless Design:** The switch features a fanless design, which contributes to silent operation and reduces dust accumulation, minimizing the need for internal cleaning.
- **Heat Dissipation:** The durable metal case with double-sided cooling holes ensures efficient heat dissipation, maintaining optimal operating temperatures without active cooling.
- **Cleaning:** To clean the exterior of the switch, use a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure the device

is powered off and unplugged before cleaning.

- **Placement:** Place the switch in a well-ventilated area, away from direct sunlight, heat sources, and excessive moisture. The switch supports desktop or wall-mount installation for flexible placement.



Figure 6.1: Fanless design for quiet operation and effective heat dissipation.

7. TROUBLESHOOTING

If you encounter issues with your TEROW 9-Port 2.5G PoE+ Ethernet Switch, refer to the following common problems and solutions:

- **Issue: Transmission speed does not reach 2.5G.**
Solution: Ensure that the network cable used is an 8-core Cat 6 or above. Lower category cables may not support 2.5G speeds.
- **Issue: SFP+ port is not working.**
Solution: Verify that the Optical Fiber Modules used on both the switch and the optical modem are compatible and support 1.25G/2.5G/10G speeds. Incompatible modules will prevent the SFP+ port from functioning.
- **Issue: Switch turns off when an SFP module is connected.**
Solution: This typically indicates an incompatible SFP module. Ensure your SFP module supports 1.25G/2.5G/10G optical fiber modules as required by the switch.
- **General Connectivity Issues:**
Solution: Check all cable connections to ensure they are secure. Verify that the power adapter is correctly connected and the power LED is on. Try restarting the switch by unplugging and re-plugging the power adapter.

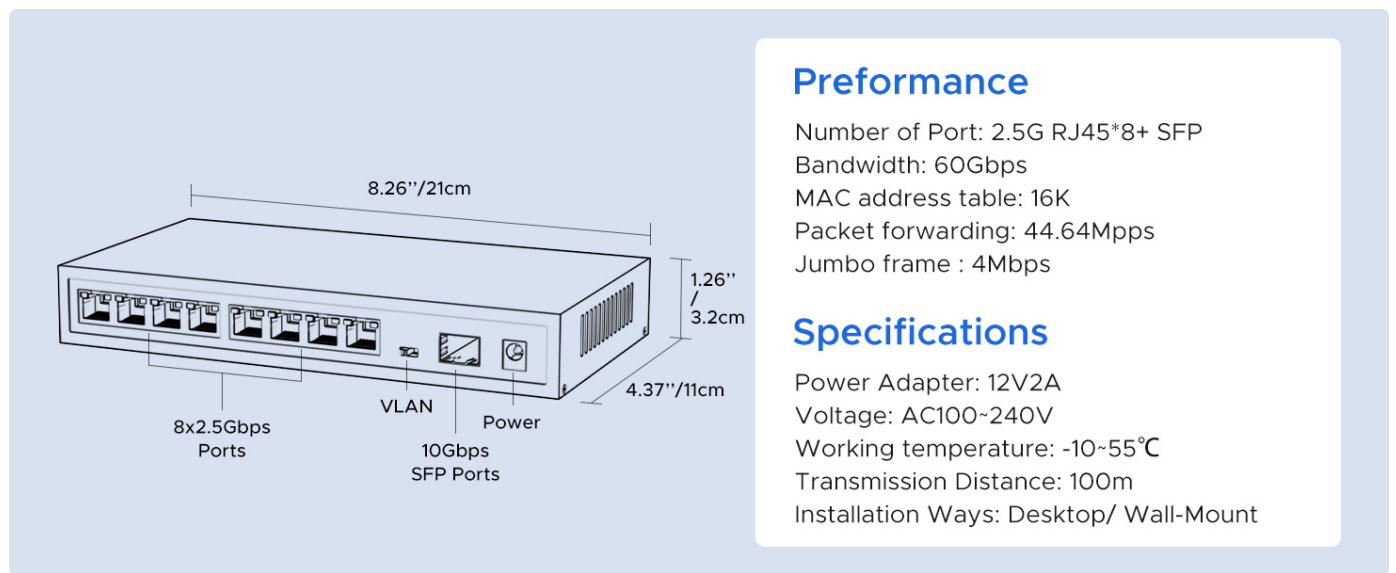


Figure 7.1: Common questions and troubleshooting tips.

8. SPECIFICATIONS

Detailed technical specifications for the TEROW 9-Port 2.5G PoE+ Ethernet Switch:

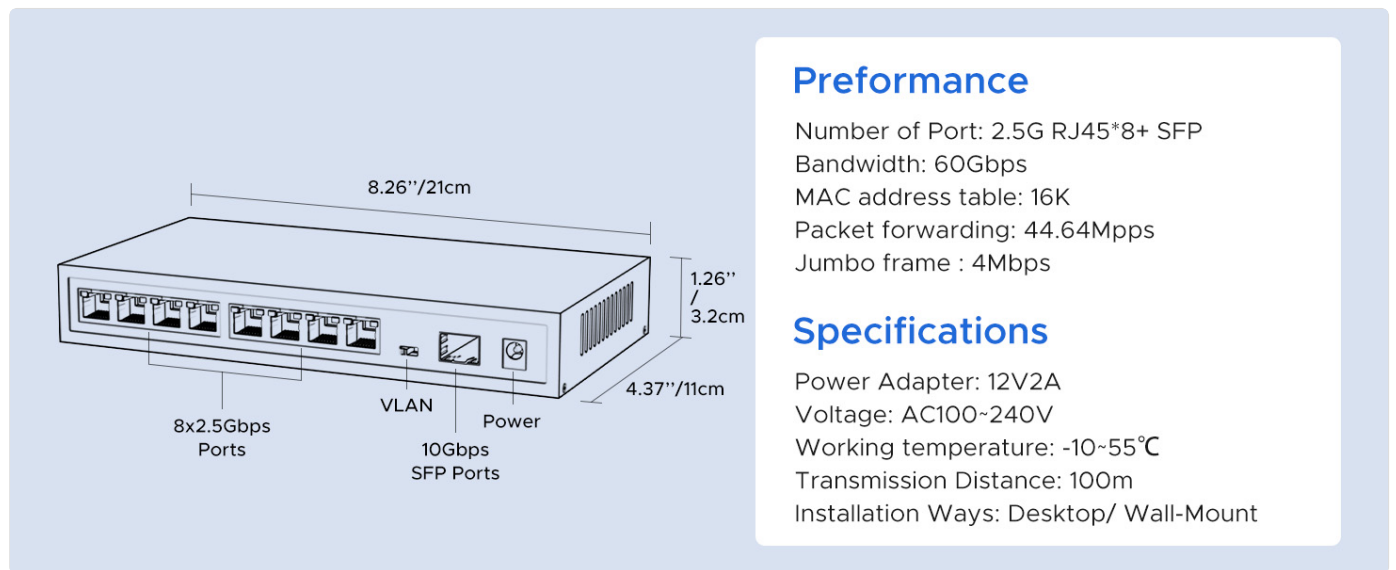


Figure 8.1: Performance and physical specifications.

Feature	Specification
Brand	TEROW
Model Number	TEROW-HG0801XG-P
Number of Ports	9 (8 x 2.5G PoE+, 1 x 10G SFP+)
Data Transfer Rate	2.5 Gigabits Per Second (RJ45), 10 Gigabits Per Second (SFP+)
Switching Capacity	60Gbps
PoE Standard	IEEE 802.3af/at
Max PoE Power Per Port	30W

Feature	Specification
Total PoE Power Budget	120W
Power Adapter	12V 2A
Voltage	AC100-240V
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Case Material	Metal
Item Dimensions (L x W x H)	5"L x 3.9"W x 1.9"H (12.7cm x 9.9cm x 4.8cm)
Item Weight	1.8 Pounds (0.82 kg)
Installation Ways	Desktop/Wall-Mount

9. WARRANTY AND SUPPORT

Warranty Information:

This TEROW 9-Port 2.5G PoE+ Ethernet Switch comes with a **1 Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please contact TEROW US customer support. You can typically find contact information on the TEROW official website or through the retailer where the product was purchased.

Online Resources: For additional information and support, visit the [TEROW Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question