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> [STEAMEMO 8-Port Gigabit PoE Switch User Manual \(Model: 10 Ports|100W 8xPoE+\)](#)

STEAMEMO 10 Ports|100W 8xPoE+

STEAMEMO 8-Port Gigabit PoE Switch User Manual

Model: 10 Ports|100W 8xPoE+

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your STEAMEMO 8-Port Gigabit PoE Switch. This unmanaged switch is designed to provide both data connectivity and Power over Ethernet (PoE) to compatible devices, featuring 8 Gigabit PoE+ ports, 2 Gigabit Uplink ports, and 2 SFP slots. It supports 802.3af/at standards with a total PoE budget of 120W, and includes features like AI VLAN mode and 4KV lightning protection.

2. PRODUCT OVERVIEW

2.1 Package Contents

- STEAMEMO 8-Port Gigabit PoE Switch
- AC Power Cable
- User Manual (this document)
- Mounting Accessories (screws, wall anchors)

2.2 Physical Layout and Indicators

The switch features a durable metal casing with various ports and LED indicators on the front panel. Refer to the images below for a visual guide.



Figure 1: Front view of the STEAMEMO 8-Port Gigabit PoE Switch, showing 8 PoE ports, 2 Uplink ports, 2 SFP slots, and LED indicators.

Full Gigabit PoE Switch

10-Port 100/1000Mbps PoE+ and Built-in Power Supply (120W)

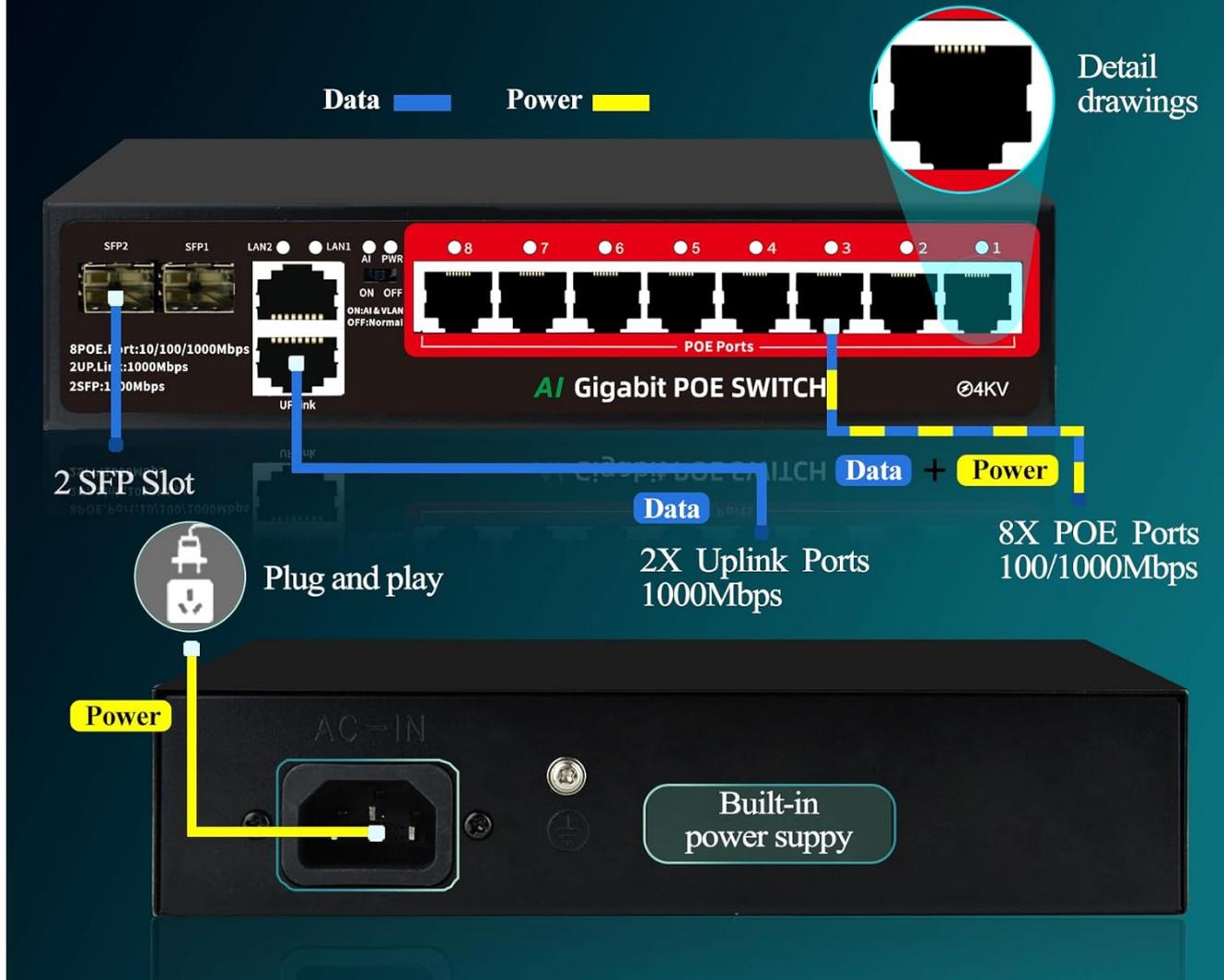


Figure 2: Detailed diagram illustrating the 8 PoE ports (10/100/1000Mbps), 2 Gigabit Uplink ports (1000Mbps), 2 SFP slots (1.25G), and the AC power input.

LED Indicators:

- **PWR (Power):** Illuminates when the switch is powered on.
- **LAN1/LAN2 (Uplink Ports):** Indicates link status and activity for the Gigabit Uplink ports.
- **PoE Ports (1-8):**
 - **Link/Act:** Solid green indicates a stable network link; blinking green indicates data activity.
 - **PoE:** Solid amber indicates Power over Ethernet is being supplied to the connected device.

VLAN Mode Switch:

A physical switch on the front panel allows toggling between Normal mode and AI VLAN mode. In AI VLAN mode, ports 1-8 are isolated from each other, enhancing security and preventing broadcast storms. The Uplink ports remain unaffected.



Figure 3: Visual representation of VLAN Isolation, showing individual PoE ports isolated from each other.

3. SETUP AND INSTALLATION

The STEAMEMO PoE Switch is designed for plug-and-play operation, requiring no complex software configuration. Follow these steps for quick setup.

3.1 Placement

- Place the switch on a flat, stable surface (desktop) or mount it to a wall using the provided accessories.
- Ensure adequate ventilation around the device.
- Avoid placing the switch near heat sources or in direct sunlight.
- Operate within the recommended temperature range of 0°C to +40°C.

Compact Size



Easy Installation



On the wall



On the table

Figure 4: The switch's compact size and flexible installation options, including desktop placement and wall mounting.

3.2 Connecting the Switch

1. **Power Connection:** Connect the supplied AC power cable to the switch's power input and then to a standard electrical outlet. The PWR LED will illuminate.
2. **Uplink Connection:** Connect your router, NVR, or internet source to one of the Gigabit Uplink ports (LAN1 or LAN2) using a standard Ethernet cable.
3. **SFP Module Installation (Optional):** If using SFP modules for fiber optic connections, insert the compatible SFP modules into the SFP1 or SFP2 slots. Connect fiber optic cables as required.
4. **Connecting Devices:**
 - **PoE Devices (e.g., IP cameras, Wi-Fi access points, IP phones):** Connect these devices directly to any of the 8 PoE ports (1-8) using standard Ethernet cables. The switch will automatically detect and provide power (802.3af/at compliant) and data. The PoE LED for the respective port will light up.
 - **Non-PoE Devices:** The switch can transmit data to non-PoE devices. However, it will not supply power. These devices must be powered separately. If a non-PoE device requires power over Ethernet, an active PoE splitter must be used. The AI PD Detection feature ensures that power is only supplied to compatible PoE devices, preventing damage to non-PoE equipment.

Gigabit Ports for More Reliable Speeds

Increase the reliability of your connected devices with STEAMEMO 8-port Gigabit switch

1000Mbps



Figure 5: Illustration of connecting PoE devices directly and non-PoE devices with an active PoE splitter.

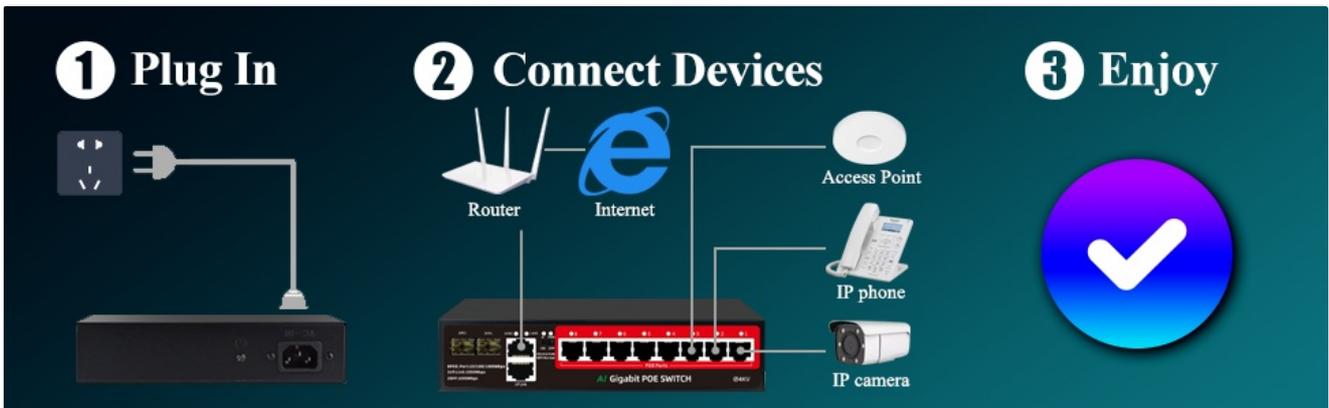


Figure 6: Simplified setup process: Plug in power, connect devices, and begin use.

4. OPERATING INSTRUCTIONS

4.1 Normal Operation

Once all connections are made and the switch is powered on, it will automatically begin functioning. The Link/Act LEDs on connected ports will indicate active network connections, and PoE LEDs will confirm power delivery to PoE devices.

4.2 AI VLAN Mode

The AI VLAN mode can be activated by flipping the physical switch on the front panel. When enabled, this mode isolates the 8 PoE ports (1-8) from each other, preventing broadcast storms and enhancing network security by segmenting traffic. The Uplink ports (LAN1, LAN2, SFP1, SFP2) maintain connectivity to all isolated PoE ports. This mode is particularly useful in environments where device isolation is critical, such as surveillance systems.

Figure 7: The VLAN mode switch on the front panel, showing how it isolates PoE ports 1-8.

4.3 AI PD Detection

The switch incorporates AI PD Detection, which intelligently identifies whether a connected device requires Power over Ethernet. If a non-PoE device is connected, the switch will only transmit data and will not supply power, thereby protecting the device from potential damage. This ensures safe operation with a mix of PoE and non-PoE equipment.

5. MAINTENANCE

The STEAMEMO PoE Switch is designed for reliable, low-maintenance operation.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation holes on the sides of the switch are not obstructed to allow for proper heat dissipation. The fanless design contributes to quiet operation and reduced dust accumulation.
- **Environmental Conditions:** Operate the switch within the specified temperature range (0°C to +40°C) and humidity levels to ensure optimal performance and longevity.
- **Cable Management:** Periodically check network cables for secure connections and signs of wear or damage.



Figure 8: The fanless design ensures quiet operation and reduces maintenance needs.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No power (PWR LED off)	Power cable disconnected; power outlet faulty.	Ensure power cable is securely connected. Test the power outlet with another device.
No network connectivity on a port (Link/Act LED off)	Ethernet cable faulty or disconnected; connected device is off or faulty.	Check cable connections. Try a different Ethernet cable. Verify the connected device is powered on and functioning.

Problem	Possible Cause	Solution
PoE device not receiving power (PoE LED off)	Device is not PoE compatible; cable issue; total PoE budget exceeded.	Confirm the device is 802.3af/at compliant. Check the Ethernet cable. Ensure the total power consumption of all PoE devices does not exceed 120W. If it's a non-PoE device, use an active PoE splitter.
Network performance issues in VLAN mode	Incorrect VLAN configuration or understanding of isolation.	Understand that VLAN mode isolates ports 1-8 from each other. Ensure your network design accounts for this isolation. If isolation is not desired, switch to Normal mode.
Intermittent connectivity or device damage	Electrical surges; network cable short-circuit.	The switch has 4KV lightning protection and short-circuit protection. If issues persist, ensure proper grounding and check for damaged cables.

7. SPECIFICATIONS

Feature	Detail
Model	10 Ports 100W 8xPoE+
Ports	8x 10/100/1000Mbps PoE+ Ports, 2x 10/100/1000Mbps Uplink Ports, 2x 1.25G SFP Slots
PoE Standard	IEEE 802.3af/at
PoE Power Output (per port)	Up to 30W
Total PoE Budget	120W
Data Transfer Rate	10/100/1000Mbps (Gigabit)
Features	AI VLAN Mode, AI PD Detection, 4KV Lightning Protection, Network Cable Short-Circuit Protection
Management	Unmanaged (Plug & Play)
Power Supply	Built-in, AC 100-240V input
Case Material	Metal
Cooling	Fanless
Product Dimensions (L x W x H)	7.5 x 5.5 x 1.7 inches
Item Weight	2.12 pounds
Operating Temperature	0°C to +40°C

8. WARRANTY AND SUPPORT

8.1 Warranty Information

STEAMEMO provides a one-year after-sales service for this product. Within one year from the order date, the product is eligible for replacement if it experiences unexplained failures. Repair services are not offered; only replacements are provided under warranty.

8.2 Technical Support

For technical assistance or further inquiries, please contact STEAMEMO customer support. You may also visit the official STEAMEMO store for additional resources and product information: [STEAMEMO Store on Amazon](#).