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› MERCUSYS MS108GP 8-Port Gigabit Desktop Switch with 7-Port PoE+ User Manual

MERCUSYS MS108GP

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Model: MS108GP

INTRODUCTION

The MERCUSYS MS108GP is an 8-Port Gigabit Desktop Switch designed for reliable and efficient network expansion. It features 7 PoE+ ports, allowing it to transfer both data and power over a single Ethernet cable to compatible devices. This unmanaged switch offers plug-and-play simplicity, durable metal casing for efficient heat dissipation, and advanced features like Extend Mode for long-range transmission and Isolation Mode for enhanced security.

PRODUCT OVERVIEW

The MS108GP switch is built for robust performance and ease of use. Its compact design and metal casing ensure durability and efficient heat management.



Front view of the Mercusys MS108GP switch, displaying its 8 Gigabit Ethernet ports and status LEDs.



Angled view of the Mercusys MS108GP, showcasing its sleek and compact desktop form factor.

Key Features:

- **Full Gigabit Ports:** 8× 10/100/1000 Mbps RJ45 ports for high-speed connections.
- **7-Port PoE+:** Provides Power over Ethernet (PoE+) on 7 ports, supporting up to 30W per PoE port and a total PoE budget of 65W.
- **Long-Range up to 250m:** Extend Mode increases PoE transmission distance to 250 meters.
- **Isolation Mode:** Divides traffic for specific ports to enhance security and stability.
- **Durable Metal Casing:** Ensures efficient heat dissipation and extended product life.
- **Plug and Play:** Simple setup with no configuration required.
- **Compliant with Powered Devices:** Works with IEEE 802.3af/at compliant PDs.

65W

PoE Budget

7×

PoE+ Ports



**Plug and
Play**



**Long-Range
up to 250 m**



**Isolation
Mode**



**PoE Auto
Recovery**



**Silent
Operation**



**Durable Metal
Casing**

Visual summary of the MS108GP's main features, including its 65W PoE budget and durable metal casing.

SETUP

The MS108GP is an unmanaged switch, designed for straightforward installation. No complex configuration is required.

1. Power Connection:

Connect the provided power adapter to the power input port on the rear panel of the switch and then to a power outlet. The Power LED on the front panel will illuminate, indicating the switch is powered on.



Rear panel of the MS108GP, showing the power input and mode switches.

2. Network Connection:

Connect your network devices (e.g., computers, network printers, IP cameras, VoIP phones) to any of the 8 RJ45 ports using standard Ethernet cables. For PoE-powered devices, connect them to ports 1-7. The corresponding Link/Act LEDs will light up when a valid connection is established.

The switch can be placed on a desktop or mounted on a wall using the integrated mounting slots on the bottom panel.

OPERATING MODES

The MS108GP features two special operating modes controlled by switches on the rear panel: Isolation Mode and Extend Mode.

Isolation Mode:

When Isolation Mode is **ON**, ports 1-7 are isolated from each other and can only communicate with the uplink port (Port 8). This prevents broadcast storms and enhances network security by isolating traffic between specific ports. When **OFF**, all ports can transmit data with each other.

Isolation Mode

With only one click, isolation mode divides traffic for ports 1-7 to prevent snooping/tampering and isolate broadcast storms for greater protection.

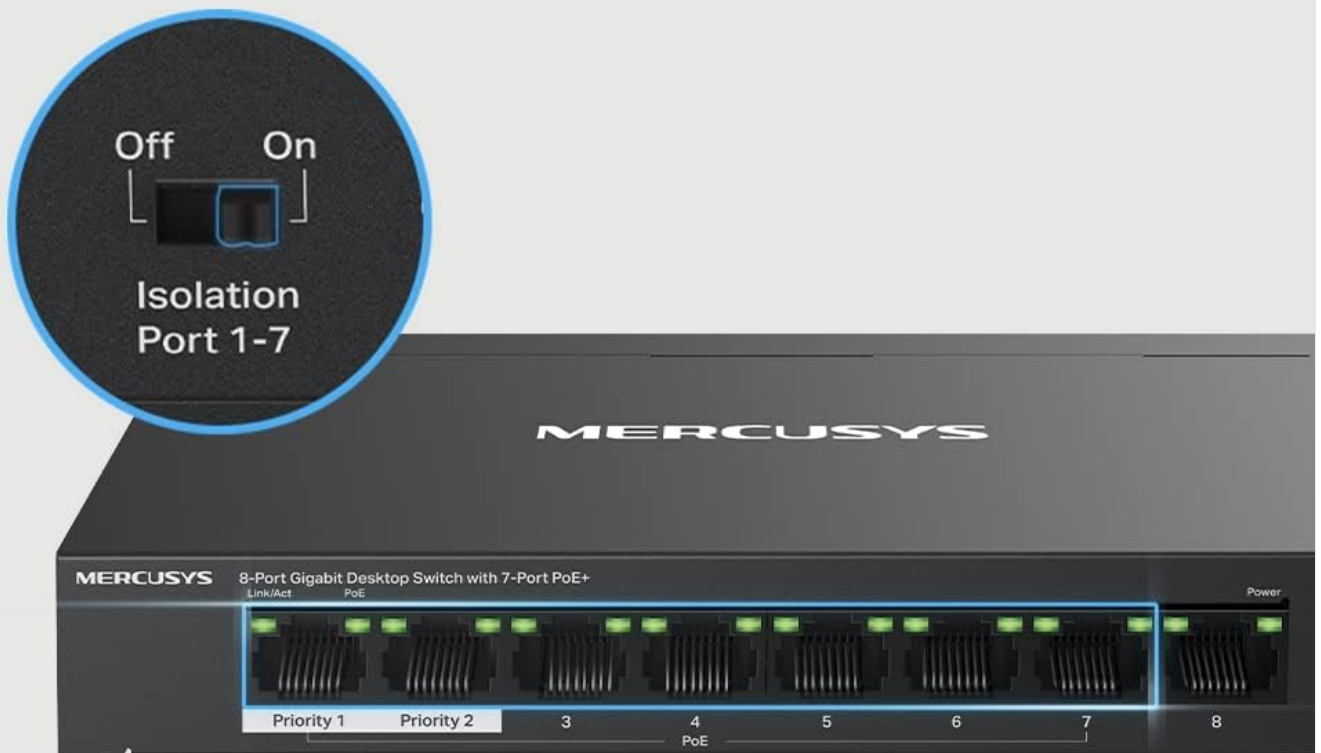


Illustration of Isolation Mode, which separates data traffic between ports 1-7 for enhanced security.

Extend Mode:

When Extend Mode is **ON**, the PoE transmission distance for ports 1-4 or 1-7 (depending on the switch setting) is increased up to 250 meters. In this mode, the data rate for these extended ports is limited to 10 Mbps. When **OFF**, all ports operate at full Gigabit speed (1000 Mbps) but with standard Ethernet distance limitations (100 meters).

Long-Range up to 250 m with Extend Mode**



Demonstration of Extend Mode, allowing PoE devices like security cameras to be placed up to 250 meters away.

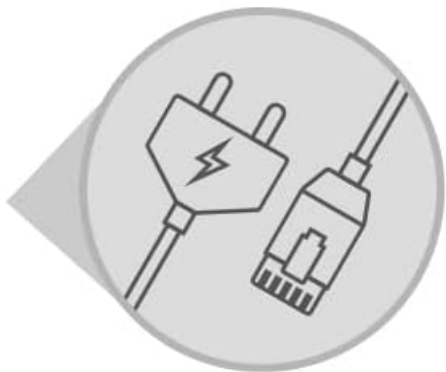
POWER OVER ETHERNET (PoE)

The MS108GP simplifies network deployment by providing power and data over a single Ethernet cable to compatible PoE-powered devices (PDs). This eliminates the need for separate power outlets for devices like IP cameras, VoIP phones, and wireless access points.

Power over Ethernet: Two Cables in One



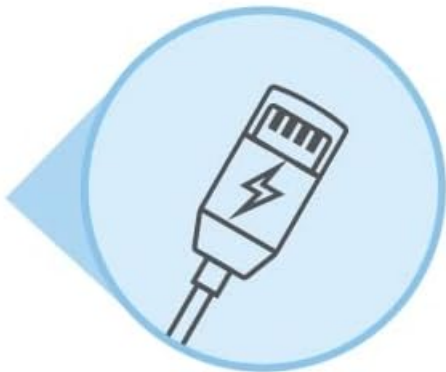
Traditional Switches



Power Data



MS108GP



Power + Data

Comparison of traditional network setup versus Power over Ethernet (PoE) with the MS108GP, showing data and power combined.

The switch supports the IEEE 802.3af/at PoE+ standards, delivering up to 30W of power per port on ports 1-7, with a total power budget of 65W for all PoE ports combined. This ensures sufficient power for a wide range of PoE devices.

SPECIFICATIONS

Feature	Detail
Brand	MERCUSYS
Model Number	MS108GP
Number of Ports	8
PoE+ Ports	7 (Ports 1-7)
Data Transfer Rate	10/100/1000 Mbps (Gigabit)
Total PoE Power Budget	65W
Max Power Per PoE Port	30W

Feature	Detail
PoE Standard	IEEE 802.3af/at
Switch Type	Fixed, Unmanaged, PoE
Case Material	Metal
Product Dimensions	12.2 x 10 x 4.6 inches
Item Weight	12.7 ounces (0.36 Kilograms)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 90% non-condensing

MAINTENANCE

To ensure optimal performance and longevity of your MS108GP switch, consider the following maintenance tips:

- **Placement:** Place the switch in a cool, dry location away from direct sunlight, heat sources, and excessive dust. Ensure adequate ventilation around the device.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid cleaners or aerosol sprays.
- **Cable Management:** Keep network cables organized and untangled to prevent damage and ensure proper airflow.
- **Firmware Updates:** While this is an unmanaged switch, periodically check the manufacturer's website for any available firmware updates that might improve performance or address issues.

TROUBLESHOOTING

If you encounter issues with your MS108GP switch, try the following troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to the switch and a working power outlet. Check if the Power LED is illuminated.
- **No Link/Activity LED:** Verify that the Ethernet cable is securely connected to both the switch port and the network device. Try a different cable or port. Ensure the connected device is powered on and functioning correctly.
- **PoE Device Not Powering On:** Confirm that the PoE-powered device is IEEE 802.3af/at compliant. Check the PoE status LED for the specific port. Ensure the total power consumption of all connected PoE devices does not exceed the 65W PoE budget.
- **Slow Network Speed:** If using Extend Mode, remember that the data rate is limited to 10 Mbps. If full Gigabit speed is required, ensure Extend Mode is OFF. Check for faulty cables or congested network traffic.
- **Network Communication Issues (Isolation Mode):** If devices on ports 1-7 cannot communicate with each other, verify if Isolation Mode is ON. If peer-to-peer communication is desired, switch Isolation Mode to OFF.

WARRANTY

The MERCUSYS MS108GP 8-Port Gigabit Desktop Switch comes with a **5-Year Warranty Period**. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official MERCUSYS website or contact customer support.

For further assistance, technical support, or to download the latest drivers and documentation, please visit the official MERCUSYS support website. You can typically find FAQs, troubleshooting guides, and contact information for customer service there.

MERCUSYS Official Website: www.mercusys.com

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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