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› [MokerLink](#) /

› MokerLink 4-Port Gigabit PoE Switch (Model: POE-G042GS) User Manual

MokerLink POE-G042GS

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the MokerLink 4-Port Gigabit PoE Switch, Model POE-G042GS. This device is designed to provide Power over Ethernet (PoE) and data connectivity for various network devices, offering a reliable and efficient solution for network expansion.



Figure 1: MokerLink 4-Port Gigabit PoE Switch, front view.

2. PRODUCT FEATURES

The MokerLink 4-Port Gigabit PoE Switch offers a range of features designed for robust network performance:

- **6 Gigabit Ports:** Includes 4 Gigabit PoE ports, 1 Gigabit Uplink port, and 1 Gigabit SFP port, all supporting 100/1000Mbps speeds for increased bandwidth. The SFP port enables optical fiber connections for distances exceeding 100 meters.
- **High PoE Power:** Provides a maximum of 75W total power output, with each PoE port supporting up to 30W (IEEE 802.3af/at compliant). Features a built-in power supply for simplified installation. *Note: This switch does not support passive 24V PoE.*
- **Plug & Play with AI Detection:** Requires no configuration; simply connect the power cord and Ethernet cables. AI intelligent detection automatically monitors port data and restarts devices if a disconnection is detected, ensuring stable operation.
- **QoS and VLAN Isolation:** Ports 1-2 support Quality of Service (QoS) to prioritize critical network traffic and prevent data loss during congestion. Ports 1-4 support VLAN isolation, segmenting traffic from each

other while allowing communication with uplink ports 5-6 to reduce network congestion.

- **Durable Design:** Features a fanless metal housing for quiet operation and enhanced durability. Includes 4KV lightning protection.
- **Versatile Applications:** Suitable for IP cameras, Wireless Access Points, computer networks, and various other PoE-powered devices.

6-Port Gigabit Unmanaged Switch with 4-Port PoE

Delivers a compact, cost-effective solution for enterprise networks

The image displays a black, rectangular network switch with a textured front panel. The front panel features six RJ45 ports, four of which are labeled 'PoE'. To the right of the ports are two SFP ports and a power input. The switch is set against a dark background with glowing orange and yellow circular patterns and binary code. Below the switch, three icons represent connected devices: a camera, a light fixture, and a phone. Above the switch, eight icons represent key features: 1000 Mbps, IEEE802.3af/at Support, QoS, PoE Watchdog, Port-based VLAN, Plug & Play, Fiber Connectivity, and Fanless Quiet Design.

- 1000 Mbps
- IEEE802.3af/at Support
- QoS
- PoE Watchdog
- Port-based VLAN
- Plug & Play
- Fiber Connectivity
- Fanless Quiet Design

Figure 2: Key features of the MokerLink PoE Switch.

PoE+ IEEE802.3af/at Support

Compliant with IEEE 802.3af/at PoE standards, automatically detect and provide the required power for PDs



IEEE 802.3af/at(PoE+)
PoE Standard



30W Per PoE Port
75W PoE Power Budget



48V
Port Output Voltage



Figure 3: PoE+ IEEE802.3af/at Power Support.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- MokerLink 4-Port Gigabit PoE Switch
- Instruction Manual (this document)
- Power Cable
- Mount Kit

4. SETUP

4.1 Physical Installation

The switch can be placed on a desktop or mounted to a wall using the included mount kit. Ensure the installation location is well-ventilated and within the specified operating temperature range.

- **Desktop Placement:** Place the switch on a stable, flat surface.
- **Wall Mounting:** Use the provided mount kit to secure the switch to a wall. Refer to the mounting instructions included with the kit for detailed steps.

4.2 Connecting Devices

The MokerLink PoE Switch is designed for plug-and-play operation, requiring no complex configuration for basic use.

1. **Power Connection:** Connect the provided power cable to the AC IN port on the switch and then to a standard power outlet.
2. **PoE Devices:** Connect your PoE-powered devices (e.g., IP cameras, Wireless Access Points, IP phones) to any of the 4 PoE ports (ports 1-4) using standard Ethernet cables. The switch will automatically detect and provide power to compliant devices.
3. **Uplink Connection:** Connect your router, NVR, or main network to the Gigabit Uplink port (RJ45) or the Gigabit SFP port using an appropriate cable or SFP module.

Full Gigabit Port Configuration

4x Gigabit PoE Ports | 1 x SFP Port | IEEE 802.3af/at PoE Standard |
12Gbps Switching Capacity | 75W PoE Budget

MokerLink POE-G04-2G5
6-Port Gigabit Ethernet Switch with 4-Port PoE

PoE Port | Support QoS

1-4 PoE Ports
10/100/1000Mbps

5 RJ45 Ports
10/100/1000Mbps
6 SFP Port
10/100/1000Mbps

PWR(Power Indication)
● Lighting: Powered
● Un-Light: No Power

VLAN(VLAN Indication)
● Lighting: Extend Mode On
● Un-Light: Extend Mode Off

DIP Switch
Default: Default Mode
VLAN: VLAN Mode

Built-in 75W Power Supply
Input Voltage: AC 100-240V(52V1.5A)

AC/IN 110-240V

| | | | |
|--------------------------------|---------------------------------------|---|--------------------------------------|
| 4ports 1000Mbps PoE+ | 1ports RJ45 1000Mbps UPLink | 1port 1000Mbps SFP UPLink | 75w Total PoE Power Budget |
| 30w Per PoE Port | 12Gbps Switch Capacity | 8.92Mpps Packet Forwarding Rate | 2k MAC Address Table |

Figure 4: Full Gigabit Port Configuration and Connections.

Easy to Use and Well Designed



4KV Lighting Protection



Fanless and Quiet Design



Plug and Play



Wall Mountable

Figure 5: Plug and Play setup and Wall Mountable design.

5. OPERATING INSTRUCTIONS

5.1 LED Indicators

The switch features LED indicators to provide status information:

- **PWR (Power Indication):**
 - Lighting: Switch is powered on.
 - Un-Light: No power.

- **VLAN (VLAN Indication):**
 - Lighting: Extend Mode On.
 - Un-Light: Extend Mode Off.

- **Port Status LEDs:** (Typically located above each port)
 - Solid Green: Link established.
 - Flashing Green: Data activity.
 - Solid Amber (PoE ports): PoE power being supplied.

5.2 PoE Watchdog (AI Detection)

The integrated PoE Watchdog function continuously monitors the status of connected PoE devices. If a device becomes unresponsive or disconnects, the switch will automatically restart the corresponding port to restore functionality, ensuring continuous operation without manual intervention.

5.3 Quality of Service (QoS)

Ports 1 and 2 support QoS functionality. Connecting important network devices to these ports ensures that their data traffic receives priority. This helps prevent data loss and maintains performance for critical applications, even during periods of high network congestion.

5.4 Port-based VLAN Isolation

The switch features a DIP switch for VLAN mode. When VLAN mode is enabled, PoE ports 1-4 are isolated from each other, meaning devices connected to these ports cannot directly communicate with each other. However, all isolated ports can still communicate with the uplink ports (5-6). This feature helps to prevent multicast or broadcast storms and enhances network security by segmenting traffic.

Port-based VLAN

Port 1-4 can be isolated from each other via the DIP switch, only communicate with uplink port 5-6, This can help to prevent multicast or broadcast storms from affecting each other.

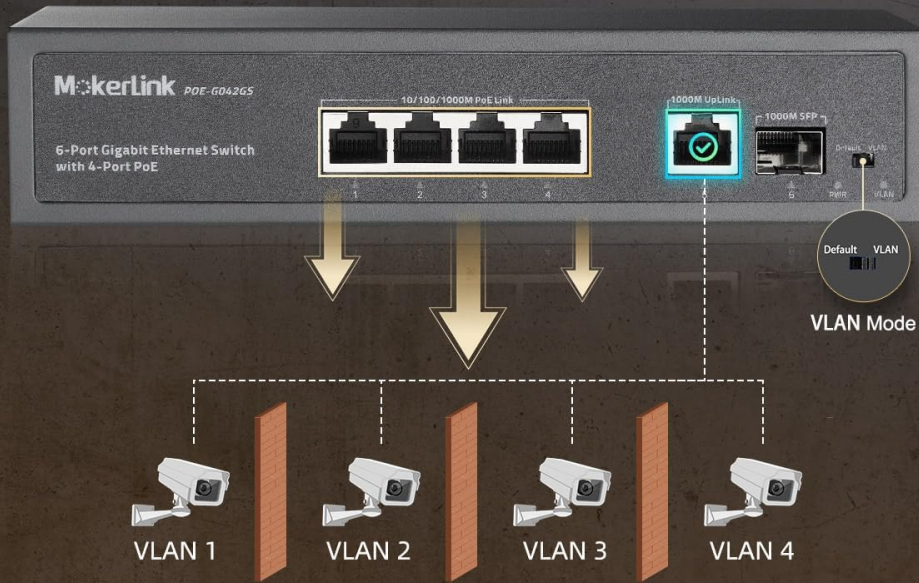


Figure 6: Port-based VLAN Isolation.

PoE Watchdog and Hardware QoS

Ensure Continuous Operation of System



Figure 7: PoE Watchdog and Hardware QoS functions.

6. MAINTENANCE

The MokerLink PoE Switch is designed for low maintenance due to its fanless and durable metal housing.

- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid or aerosol cleaners.
- **Environment:** Ensure the switch operates within its specified temperature range of -10°C to +55°C. Avoid exposing the device to extreme temperatures or humidity.
- **Ventilation:** Although fanless, ensure adequate airflow around the device to prevent heat buildup.

7. TROUBLESHOOTING

If you encounter issues with your MokerLink PoE Switch, consider the following troubleshooting steps:

- **No Power:** Ensure the power cable is securely connected to both the switch and a working power outlet. Check the PWR LED indicator.
- **No Link/Connectivity:** Verify that Ethernet cables are properly connected to both the switch and the network device. Check the port status LEDs. Try a different cable or port.
- **PoE Device Not Powering On:** Confirm that your device is IEEE 802.3af/at compliant. Ensure the cable length is within specifications. The PoE Watchdog feature should automatically attempt to restart the port if a device becomes unresponsive.
- **Network Congestion/Performance Issues:** If QoS is enabled, ensure critical devices are connected to ports 1-2. If VLAN isolation is active, ensure devices are communicating with the uplink ports as intended.
- **Device Unresponsive After Power Failure:** In some cases, after a power outage, the PoE function may not immediately resume. Unplug the switch's power cable for one minute, then plug it back in to perform a power cycle.

8. SPECIFICATIONS

| Specification | Value |
|------------------------|---|
| Brand | MokerLink |
| Model Number | POE-G042GS |
| Number of Ports | 4 PoE Ports, 1 Gigabit Uplink, 1 SFP Port (Total 6 Gigabit Ports) |
| Data Transfer Rate | 1 Gigabits Per Second (10/100/1000Mbps) |
| PoE Standard | IEEE 802.3af/at |
| Total PoE Power Budget | 75W |
| Max Power Per PoE Port | 30W |
| Switch Type | Unmanaged |
| Interface | RJ45, SFP |
| Operating Temperature | -10°C to 55°C (14°F to 131°F) |
| Housing | Fanless Metal |
| Compatible Devices | Camera, Desktop, Laptop, Printer |

9. WARRANTY AND SUPPORT

The MokerLink 4-Port Gigabit PoE Switch (Model: POE-G042GS) comes with a **1-Year Warranty** from the date of purchase.

For technical support, troubleshooting assistance, or warranty claims, please contact MokerLink customer

service. Our support team is available to provide assistance and ensure your product operates correctly. Please refer to the contact information provided on the official MokerLink website or your purchase documentation for the most current support channels.