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› MokerLink 8-Port 10Gbps Ethernet Switch User Manual

MokerLink 10G062GS

MokerLink 8-Port 10Gbps Ethernet Switch User Manual

Model: 10G062GS

1. INTRODUCTION

The MokerLink 8-Port 10Gbps Ethernet Switch is an unmanaged network switch designed to enhance network performance. It features 6 x 10Gbps RJ45 Ethernet ports and 2 x 10Gbps SFP+ slots, offering high-bandwidth connectivity and flexible deployment options for various network environments. This device supports auto-negotiation for multiple speeds and is suitable for both desktop and rackmount installations.

8-Port 10G Unmanaged Switch with 2 10G SFP+

Best choice to boost your network performance and efficiency



6 x 10GE Ports



2 x 10G SFP+ Port



Plug and Play



LED Indicators



1U Rack-mount and Desktop



Energy Saving



Image 1.1: Front view of the MokerLink 8-Port 10Gbps Ethernet Switch, highlighting its 6x 10Gbps RJ45 ports and 2x 10Gbps SFP+ ports.

2. PACKAGE CONTENTS

Verify the following items are included in your package:

- 1 x MokerLink 8-Port 10Gbps Ethernet Switch (Model: 10G062GS)
- 1 x Power Adapter
- 1 x Rackmount Ears (for rack installation)
- 1 x User Manual (this document)

3. PRODUCT OVERVIEW

The MokerLink 10G062GS switch features a robust metal casing and intuitive indicators for easy monitoring.

3.1 Front Panel

The front panel includes all network ports and status indicators:

- **RJ45 Ports (1-6):** Six 10Gbps Ethernet ports supporting 10G/5G/2.5G/1000M/100M auto-negotiation.
- **SFP+ Slots (7-8):** Two 10Gbps SFP+ slots compatible with 1G/2.5G/10G optical modules.
- **LED Indicators:** Each RJ45 port has a Left LED (Orange for 10Gbps, Green for 2.5G/1Gbps) and a Right LED (Flash for Data Transmission). SFP+ ports have a 10G LED (ON for 10Gbps) and a 2.5/1G LED (ON for 2.5G/1Gbps), with flashing indicating data transmission.
- **PWR (Power) LED:** Indicates power status (ON: Powered on, OFF: Powered off).
- **SYS (System) LED:** Indicates system status (ON: System work well, Flash: Starting or Dial Extend Switch).
- **Port 7-8 Switch:** A DIP switch to configure the SFP+ ports (Left: 1G/10G Adaptive, Right: 2.5G/10G Adaptive).

3.2 Rear Panel

The rear panel contains the power input:

- **AC IN 100-240V:** Power input connector for the included power adapter.

6x 10GE + 2x 10G SFP+ Ports Configuration

Front Panel Configuration:

- 6 x 10Gbps Port:**
 - Left Led: ● Orange: 10Gbps
 - Flash: Data Transmission
 - Right Led: ● Green: 2.5G/1Gbps
 - Flash: Data Transmission
- 2 x 10Gbps SFP Port:**
 - 10G Led ON: 10Gbps
 - 2.5/1G Led ON: 2.5G/1Gbps
- PWR(Power):**
 - On: Powered on
 - Off: Powered off
- System indicator: SYS**
 - On: System work well
 - Flash: Starting or Dial Extend Switch
- Built-in power supply**
Voltage: AC110-240 V, 50/60Hz, 1.5A
- Port 7-8 Switch:**
 - Left: 1G/10G Adaptive
 - Right: 2.5G/10G Adaptive

Rear Panel: AC/IN 110-240V

10Gbps Port	Backplane Bandwidth	Jumbo Frame
6	160 Gbps(non-blocking)	12KB
10Gbps SFP Port	Packet Forwarding Rate	MAC address
2	119.04 Mpps	16K

4. SETUP

The MokerLink 10G062GS is an unmanaged switch, designed for simple plug-and-play operation without complex configuration.

4.1 Power Connection

1. Connect the included power adapter to the AC IN port on the rear panel of the switch.
2. Plug the power adapter into a standard AC power outlet (100-240V, 50/60Hz).
3. Verify the PWR LED on the front panel illuminates, indicating the switch is powered on.

4.2 Network Device Connection

1. Connect your network devices (e.g., computers, servers, NAS, WiFi 6 APs) to the RJ45 ports (1-6) using appropriate Ethernet cables (Cat5e or above for Gigabit, Cat7 or above for 10Gbps).
2. For SFP+ connections, insert compatible 1G/2.5G/10G SFP+ optical modules into slots 7-8. Connect fiber optic cables to these modules.
3. Ensure the Link/Act LEDs for connected ports illuminate, indicating an active network connection. Flashing LEDs signify data transmission.

4.3 Installation Options

The switch supports both desktop and rackmount installations:

- **Desktop Placement:** Place the switch on a stable, flat surface with adequate ventilation.
- **Rackmount Installation:** Attach the provided rackmount ears to the sides of the switch and secure it into a standard 1U server rack.



Image 4.1: The MokerLink switch shown installed in a standard server rack, demonstrating its rackmount capability.

5. OPERATING INSTRUCTIONS

The MokerLink 10G062GS switch operates automatically once connected.

5.1 Auto-Negotiation

The RJ45 ports automatically detect and negotiate the highest possible speed (10G/5G/2.5G/1000M/100M) with the connected device. No manual configuration is required for these ports.

5.2 SFP+ Port Configuration

The SFP+ ports (7-8) support 1G, 2.5G, and 10G optical modules. The operating speed for these ports can be set using the DIP switch located next to them:

- **Left Position:** Configures SFP+ ports for 1G/10G adaptive operation.
- **Right Position:** Configures SFP+ ports for 2.5G/10G adaptive operation.

Select the appropriate setting based on the SFP+ modules and connected devices.

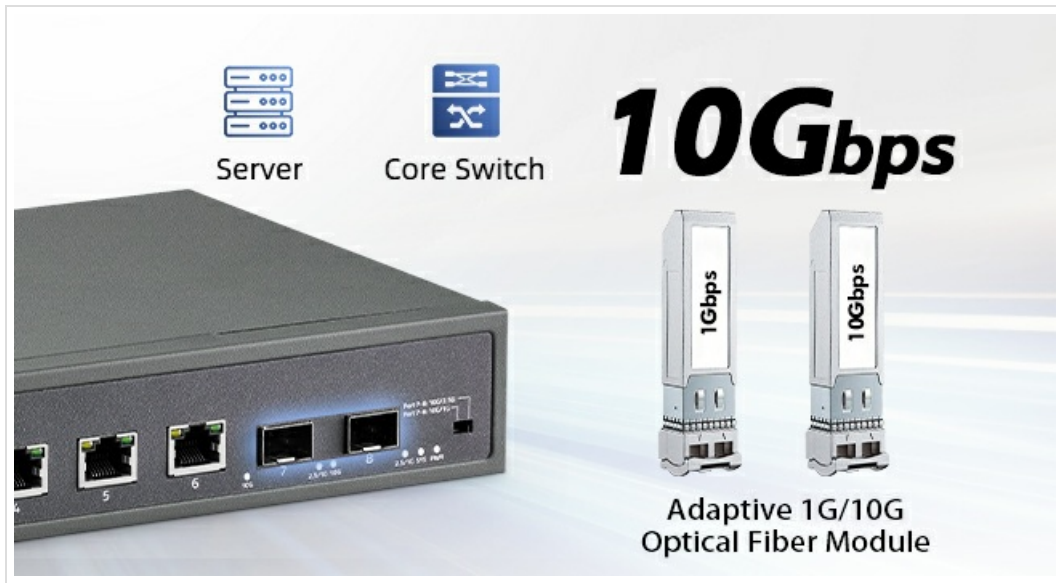


Image 5.1: Illustration of SFP+ ports with different speed optical modules, demonstrating compatibility.

6. MAINTENANCE

Proper maintenance ensures optimal performance and longevity of your MokerLink switch.

- **Cleaning:** Keep the switch clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure adequate airflow around the switch. The industrial-grade fans require clear space for heat dissipation. Avoid blocking ventilation openings.
- **Environment:** Operate the switch within recommended temperature and humidity ranges. Avoid direct sunlight, excessive heat sources, and high moisture environments.
- **Cable Management:** Organize network cables to prevent strain on ports and ensure proper airflow.



Image 6.1: Visual representation of the switch's energy-saving features, durable metal casing, and cooling system.

7. TROUBLESHOOTING

If you encounter issues with your MokerLink switch, refer to the following common troubleshooting steps:

7.1 No Power

- Ensure the power adapter is securely connected to both the switch and a working power outlet.
- Check if the power outlet is functional by plugging in another device.
- Verify the PWR LED on the front panel is illuminated.

7.2 No Link Light / No Network Connection

- Check if the Ethernet cable is securely connected to both the switch port and the network device.
- Ensure the Ethernet cable is not damaged. Try a different cable.
- Verify the connected network device is powered on and functioning correctly.
- For SFP+ ports, ensure the SFP+ module is correctly inserted and compatible, and the fiber optic cable is properly connected. Check the Port 7-8 switch setting.
- Confirm the cable type meets the speed requirements (e.g., Cat7 for 10Gbps).

7.3 Slow Network Speed

- Ensure all connected devices and cables support the desired speed (e.g., 10Gbps). Using lower-category cables (e.g., Cat5e for 10Gbps) can limit performance.
- Check the Link/Act LED color for RJ45 ports (Orange for 10Gbps, Green for 2.5G/1Gbps) to confirm the negotiated speed.
- Verify the SFP+ port configuration via the DIP switch matches the module and device capabilities.
- Ensure there are no other network bottlenecks or heavy network traffic.

8. SPECIFICATIONS

Model Number	10G062GS
Number of Ports	8 (6 x 10Gbps RJ45, 2 x 10Gbps SFP+)

RJ45 Port Speeds	10G/5G/2.5G/1000M/100M Auto-Negotiation
SFP+ Port Speeds	1G/2.5G/10G (Configurable via DIP switch)
Switching Capacity	160Gbps
Packet Forwarding Rate	119.04Mpps
MAC Address Table	16K
Jumbo Frame	12KB
Network Protocols	IEEE 802.3ae, 802.3bz, 802.3ab, 802.3x, 802.3az
Cable Types (Recommended)	1000Base-TX: Cat5 or above UTP (≤100m) 10000Base-T: Cat7 or above UTP (≤100m)
Switch Type	Unmanaged
Power Supply	AC 100-240V, 50/60Hz, 1.5A
Item Weight	1.85 Kilograms
Heat Dissipation	Industrial grade fans (approx. 50 decibels)
Protection	4KV Lightning Protection

9. WARRANTY INFORMATION

The MokerLink 8-Port 10Gbps Ethernet Switch (Model 10G062GS) comes with a **1-Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or external causes such as power surges. Please retain your proof of purchase for warranty claims.

10. TECHNICAL SUPPORT

For technical assistance, troubleshooting, or further inquiries regarding your MokerLink 8-Port 10Gbps Ethernet Switch, please contact MokerLink customer service. You may also visit the official MokerLink website for additional resources, FAQs, and product updates.

MokerLink Official Website: [Visit MokerLink Store on Amazon](#)