

MOXA EDS-G512E-8PoE-4GSFP-T

MOXA EDS-G512E-8PoE-4GSFP-T 12-Port Full Gigabit Managed Ethernet Switch User Manual

Model: EDS-G512E-8PoE-4GSFP-T

INTRODUCTION

This manual provides essential instructions for the installation, operation, maintenance, and troubleshooting of the MOXA EDS-G512E-8PoE-4GSFP-T 12-Port Full Gigabit Managed Ethernet Switch. This device is designed for industrial networking applications, offering 8 10/100/1000BaseT PoE/PoE+ ports and 4 100/1000BaseSFP slots, capable of operating in harsh environments from -40 to 75°C.

Please read this manual thoroughly before operating the device to ensure proper functionality and safety.

PACKAGE CONTENTS

- MOXA EDS-G512E-8PoE-4GSFP-T Ethernet Switch
- Quick Installation Guide
- Warranty Card
- Mounting Kit (if applicable)

Verify all items are present and undamaged. Contact your vendor if any items are missing or damaged.

SETUP

1. Physical Installation

The EDS-G512E-8PoE-4GSFP-T switch is designed for DIN-rail or wall mounting. Ensure the installation location provides adequate ventilation and is within the specified operating temperature range (-40 to 75°C).



Figure 1: Front view of the MOXA EDS-G512E-8PoE-4GSFP-T Ethernet Switch, showing the 8 PoE ports and 4 SFP slots.

2. Power Connection

Connect a 48 VDC power source to the terminal block on the switch. Ensure correct polarity. The switch supports redundant power inputs for enhanced reliability. Refer to the Quick Installation Guide for detailed wiring diagrams.

- **Input Voltage:** 48 VDC
- **Redundancy:** Dual power inputs

3. Network Connection

Connect Ethernet cables to the 10/100/1000BaseT PoE/PoE+ ports for standard network devices and PoE-powered devices. Insert SFP modules into the 100/1000BaseSFP slots for fiber optic connections. Ensure SFP modules are compatible with the switch and your fiber infrastructure.

- **PoE Ports:** 8 x 10/100/1000BaseT (PoE/PoE+)
- **SFP Slots:** 4 x 100/1000BaseSFP

OPERATING

1. Powering On

Once power is connected, the switch will automatically power on. Observe the power LED indicators to confirm proper power supply.

2. LED Indicators

The switch features various LED indicators to display its status and port activity:

- **PWR1/PWR2:** Indicates power status for input 1 and 2. (Green: Power OK, Off: No Power)
- **FAULT:** Indicates system fault. (Red: Fault detected, Off: No fault)
- **MSTR/CPLR:** Indicates redundant ring status.

- **Port LEDs (Link/Act):** Indicates link status and data activity for each port. (Green: Link established, Blinking Green: Data activity, Off: No link)
- **PoE LEDs:** Indicates PoE power status for PoE ports. (Green: PoE power supplied, Off: No PoE power)

3. Network Management

The EDS-G512E-8PoE-4GSFP-T is a managed switch. It can be configured and monitored via a web-based interface, Telnet/SSH, or SNMP. Refer to the product's software manual for detailed instructions on accessing and configuring the management interface.

- **Default IP Address:** Consult the Quick Installation Guide or product documentation.
- **Default Username/Password:** Consult the Quick Installation Guide or product documentation.

MAINTENANCE

1. Cleaning

Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure the device is powered off before cleaning.

2. Firmware Updates

Regularly check the manufacturer's website for firmware updates. Firmware updates can provide new features, performance improvements, and security enhancements. Follow the instructions provided with the firmware package carefully.

3. Environmental Considerations

Ensure the operating environment remains within the specified temperature and humidity ranges to prevent damage and ensure optimal performance.

TROUBLESHOOTING

1. No Power

- Check power cable connections to the switch and power source.
- Verify the power source is active and providing the correct voltage (48 VDC).
- Check the PWR1/PWR2 LEDs on the switch.

2. No Network Connectivity

- Ensure Ethernet cables are securely connected to both the switch and the network device.
- Check the Link/Act LEDs for the respective port. A solid green indicates a link, blinking indicates activity.
- Verify network settings on connected devices.

3. PoE Device Not Powering On

- Ensure the connected device is PoE compatible.
- Check the PoE LED for the specific port. A solid green indicates PoE power is being supplied.
- Verify the total power budget of the switch is not exceeded.

4. System Fault (FAULT LED is Red)

If the FAULT LED is red, consult the product's software manual or contact technical support for advanced diagnostics.

SPECIFICATIONS

Feature	Description
Model	EDS-G512E-8PoE-4GSFP-T
Brand	Moxa
Number of Ports	12 (8 x 10/100/1000BaseT PoE/PoE+, 4 x 100/1000BaseSFP)
Ethernet Interface	10/100/1000BaseT (RJ45)
Fiber Interface	100/1000BaseSFP slots
Switch Type	Managed, Fixed, PoE, Layer 2
Operating Temperature	-40 to 75°C (-40 to 167°F)
Input Voltage	48 VDC (Redundant)
Case Material	Metal
UPC	747356311465
ASIN	B07C7F7WWM

WARRANTY AND SUPPORT

Warranty Information

This product comes with a standard manufacturer's warranty. Please refer to the warranty card included in the package or visit the official Moxa website for detailed warranty terms and conditions.

Technical Support

For technical assistance, product documentation, or software downloads, please visit the official Moxa support website. You may also contact Moxa customer service directly for further assistance.

Moxa Official Website: www.moxa.com