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Moxa EDS-G308-T

MOXA EDS-G308-T Unmanaged Full Gigabit Ethernet Switch User Manual

Model: EDS-G308-T

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the MOXA EDS-G308-T Unmanaged Full Gigabit Ethernet Switch. The EDS-G308-T is designed for industrial applications, offering reliable high-speed network connectivity in harsh environments.

2. Safety Information

- Ensure proper grounding to prevent electrical hazards.
- Disconnect power before cleaning or servicing the device.
- Operate the device within the specified temperature and humidity ranges (-40 to 75°C).
- Do not expose the device to water or excessive moisture.
- Only qualified personnel should perform installation and maintenance.

3. Package Contents

Before installation, verify that your package contains the following items:

- MOXA EDS-G308-T Ethernet Switch
- Quick Installation Guide
- Warranty Card

If any of these items are missing or damaged, please contact your sales representative for assistance.

4. Product Overview

4.1. Features

- 8 x 10/100/1000BaseTX Gigabit Ethernet Ports
- Unmanaged operation for plug-and-play simplicity

- Industrial-grade design for harsh environments
- Wide operating temperature range: -40 to 75°C
- Redundant dual DC power inputs
- Relay output warning for power failure
- DIN-rail mounting capability

4.2. Panel Layout

Figure 1: Front and top view of the MOXA EDS-G308-T switch. The image displays the compact, rugged enclosure with eight RJ45 Gigabit Ethernet ports on the front panel. Above the ports, there are LED indicators for power and fault status. On the top, a green removable terminal block is visible for power input connections.

The EDS-G308-T features a robust metal casing designed for industrial use. The front panel includes:

- **Ethernet Ports:** Eight 10/100/1000BaseTX RJ45 ports for network connections.
- **LED Indicators:**
  - PWR1/PWR2: Power input status indicators.
  - FAULT: System fault indicator.
  - Link/Act LEDs (per port): Indicate link status and data activity for each Ethernet port.

The top panel features a removable terminal block for redundant power inputs and a relay output.

5. Setup

5.1. Mounting

The EDS-G308-T is designed for DIN-rail mounting. Follow these steps:

1. Attach the DIN-rail mounting kit (if not pre-installed) to the rear of the switch using the provided screws.
2. Hook the top edge of the DIN-rail clip over the top of the DIN rail.
3. Press the switch firmly against the DIN rail until the clip snaps into place.
4. Ensure the switch is securely fastened to the DIN rail.

5.2. Wiring the Power Input

The EDS-G308-T supports redundant dual DC power inputs. Use the removable terminal block on the top panel.

1. Ensure the power source is turned off before connecting wires.
2. Connect the positive (+) wire from your DC power supply to the V+ terminal on the terminal block.
3. Connect the negative (-) wire from your DC power supply to the V- terminal on the terminal block.
4. Connect the ground wire to the ⊗ (ground) terminal.
5. Repeat for the second power input if redundant power is desired.
6. Securely tighten the screws on the terminal block to ensure good contact.
7. Insert the terminal block into the power input connector on the switch.

Once power is applied, the PWR1 and/or PWR2 LEDs should illuminate.

5.3. Grounding the Switch

Proper grounding is essential for electromagnetic compatibility (EMC) and surge protection. Connect the grounding screw on the switch chassis to a good earth ground.

6. Operating the Switch

6.1. Connecting Network Devices

Connect standard RJ45 Ethernet cables from your network devices (e.g., industrial PCs, PLCs, cameras) to any of the eight 10/100/1000BaseTX ports on the front panel of the EDS-G308-T. The switch automatically detects the speed and duplex mode of the connected device.

6.2. LED Indicators

Monitor the status of the switch using the LED indicators:

- **PWR1/PWR2 (Green):**
  - **On:** Corresponding DC power input is active.
  - **Off:** Corresponding DC power input is inactive.
- **FAULT (Red):**
  - **On:** A power input failure has occurred.
  - **Off:** No power input failure.
- **Link/Act (Green, per port):**
  - **On:** A valid network link is established.
  - **Flashing:** Data is being transmitted or received on the port.
  - **Off:** No network link detected.

7. Maintenance

The MOXA EDS-G308-T is designed for minimal maintenance. However, regular checks can ensure optimal performance:

- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure power is disconnected before cleaning.

- **Environmental Check:** Verify that the operating environment remains within the specified temperature and humidity ranges. Ensure adequate airflow around the device.
- **Cable Inspection:** Regularly inspect all connected Ethernet and power cables for damage or loose connections.

8. Troubleshooting

This section provides solutions to common issues you may encounter with the EDS-G308-T switch.

Problem	Possible Cause	Solution
No Power (PWR LEDs off)	No power supply, incorrect wiring, faulty power supply.	Check power connections, verify power supply output, ensure terminal block is seated correctly.
No Link/Act LED (for a connected device)	Faulty Ethernet cable, incorrect cable type, device not powered on, device network interface issue.	Replace Ethernet cable, ensure connected device is powered on and configured correctly.
FAULT LED is On	Power input failure.	Check both power inputs (PWR1 and PWR2 LEDs). Identify and resolve the power supply issue.

9. Specifications

Key technical specifications for the MOXA EDS-G308-T switch:

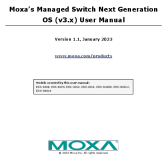
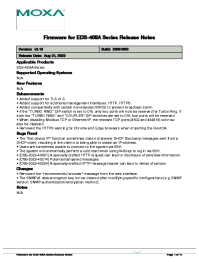
Parameter	Value
Model	EDS-G308-T
Ethernet Ports	8 x 10/100/1000BaseTX (RJ45)
Switch Type	Unmanaged Gigabit Ethernet Switch
Operating Temperature	-40 to 75°C (-40 to 167°F)
Input Voltage	12/24/48 VDC (redundant dual inputs)
Power Consumption	(Typically) 4.8 W @ 24 VDC
Housing	IP30-rated metal case
Mounting	DIN-rail
Dimensions (W x H x D)	(Approx.) 53.6 x 135 x 105 mm (2.11 x 5.31 x 4.13 in)
Weight	12.99 Pounds (approx. 5.89 kg)
UPC	747356312813

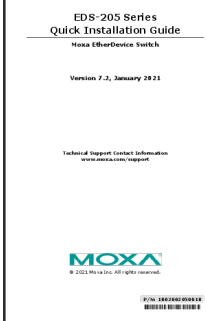
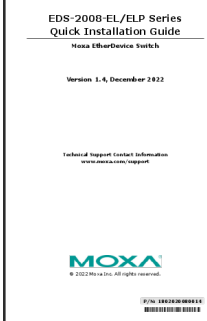
10. Warranty and Support

MOXA products are backed by a manufacturer's warranty. For detailed warranty information, please refer to the

warranty card included with your product or visit the official MOXA website.
For technical support, product documentation, or service requests, please contact MOXA customer support through their official channels. Ensure you have your product model number (EDS-G308-T) and serial number ready when seeking assistance.
Official MOXA Website: www.moxa.com

Related Documents - EDS-G308-T

	Moxa EDS-600 Series Quick Installation Guide This document provides a quick installation guide for the Moxa EDS-600 Series industrial Ethernet switches. It covers package contents, advanced networking features, panel views for different models (EDS-608, EDS-611, EDS-616, EDS-619), mounting instructions (DIN-rail and wall), wiring requirements for power, relay, and digital inputs, communication port details, DIP switch settings for Turbo Ring, LED indicators, and detailed technical specifications.
	Moxa Managed Switch Next Generation OS (v3.x) User Manual Comprehensive user manual for Moxa's Managed Switch Next Generation OS (v3.x), covering installation, configuration, web interface, security, and diagnostics for models like EDS-4008 and EDS-G4014.
	MOXA EDS-408A Series Firmware Release Notes Comprehensive release notes for MOXA EDS-408A Series industrial Ethernet switch firmware, detailing version history, new features, enhancements, and bug fixes across multiple firmware versions.

	Moxa EDS-205 Series Quick Installation Guide Comprehensive installation guide for Moxa EDS-205 Series EtherDevice™ industrial Ethernet switches, detailing setup, wiring, panel layout, and specifications for reliable industrial network connections.
	Moxa EDS-510A Series Quick Installation Guide Quick installation guide for the Moxa EDS-510A Series EtherDevice™ Switch, covering package contents, optional accessories, default settings, panel views, mounting, wiring, Turbo Ring configuration, LED indicators, and specifications.
	Moxa EDS-2008-EL/ELP Series Industrial Ethernet Switch - Quick Installation Guide Quick installation guide for Moxa EDS-2008-EL/ELP Series industrial Ethernet switches. Covers features, panel layout, mounting, wiring, communication connections, specifications, and regulatory approvals.