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## Moxa EDS-208

# Moxa EDS-208 8-Port Unmanaged Ethernet Switch

## User Manual

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## 1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Moxa EDS-208 8-Port Unmanaged Ethernet Switch. The EDS-208 is designed for industrial networking applications, offering reliable 10/100BaseT(X) Ethernet connectivity in a compact, unmanaged form factor.

## 2. SAFETY INFORMATION

- Read all instructions carefully before operating the device.
- Ensure the power supply voltage is within the specified range for the device. A power supply is not included and must be purchased separately.
- Do not expose the device to moisture or extreme temperatures.
- Only qualified personnel should perform installation and maintenance.
- Disconnect power before cleaning or servicing the device.

## 3. PACKAGE CONTENTS

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

- Moxa EDS-208 Unmanaged Ethernet Switch
- Quick Installation Guide (if included)
- Warranty Card (if included)

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

## 4. PRODUCT OVERVIEW



**Figure 1:** Moxa EDS-208 Unmanaged Ethernet Switch. This image displays the Moxa EDS-208 unmanaged Ethernet switch. The front panel features eight 10/100BaseT(X) RJ45 ports, numbered 1 through 8. Above the ports, the Moxa logo is visible, along with a 'P' indicator and a power LED. At the top, a green removable terminal block is present for power input. The device has a dark grey plastic housing with ribbed sides for heat dissipation.

### 4.1. Front Panel Layout

- **Power Input Terminal Block:** Located at the top, a green removable terminal block for connecting the DC power supply.
- **Power LED (P):** Indicates the power status of the device.
- **10/100BaseT(X) Ports (1-8):** Eight RJ45 ports for connecting Ethernet devices. Each port supports 10 Mbps or 100 Mbps operation.
- **Link/Activity LEDs:** Integrated into each RJ45 port, these LEDs indicate network link status and data activity.

## 5. SETUP

## 5.1. Mounting the Switch

The EDS-208 supports DIN-rail mounting. To mount the switch:

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

## 5.2. Connecting Power

**Important: A power supply is NOT included with the EDS-208 and must be purchased separately. Ensure the power supply meets the device's voltage and current requirements.**

1. Ensure the power source is turned off.
2. Connect the positive and negative wires from your DC power supply to the corresponding terminals on the green removable terminal block at the top of the switch. Refer to the terminal block markings for correct polarity.
3. Insert the terminal block firmly into its receptacle on the switch.
4. Turn on the power source. The 'P' LED on the front panel should illuminate, indicating power is supplied.

## 5.3. Connecting Network Devices

Connect standard Ethernet cables (Cat5e or better) from your network devices (e.g., computers, servers, other switches) to any of the eight RJ45 ports on the front panel of the EDS-208. The switch automatically detects the speed (10 Mbps or 100 Mbps) and duplex mode of the connected devices.

# 6. OPERATING THE SWITCH

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## 6.1. LED Indicators

The EDS-208 features several LED indicators to provide status information:

- **Power LED (P):**
  - **On:** The switch is receiving power.
  - **Off:** The switch is not receiving power.
- **Link/Activity LEDs (per RJ45 port):**
  - **On:** A valid network link is established.
  - **Flashing:** Data is being transmitted or received through the port.
  - **Off:** No network link is established.

## 6.2. Basic Functionality

The EDS-208 is an unmanaged switch, meaning it operates automatically without requiring any configuration. It provides basic Ethernet switching functions, including:

- **Store-and-Forward Switching:** Ensures data integrity by checking for errors before forwarding frames.
- **Auto-Negotiation:** Automatically determines the best speed and duplex mode for each connected device.

- **Auto MDI/MDI-X:** Automatically detects and adjusts for straight-through or crossover Ethernet cables.
- **Broadcast Storm Protection:** Helps prevent network congestion caused by excessive broadcast traffic.

## 7. MAINTENANCE

### 7.1. Cleaning

To clean the switch:

1. Disconnect power to the device.
2. Use a soft, dry cloth to wipe the exterior of the switch.
3. Do not use liquid or aerosol cleaners, as they may damage the device.

### 7.2. Environmental Considerations

Ensure the switch operates within its specified temperature and humidity ranges. Avoid placing the switch in areas with excessive dust, vibration, or direct sunlight. Proper ventilation is crucial for optimal performance and longevity.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power (Power LED off)	<ul style="list-style-type: none"><li>• No power supply connected.</li><li>• Faulty power supply.</li><li>• Incorrect wiring.</li></ul>	<ul style="list-style-type: none"><li>• Connect a compatible power supply.</li><li>• Test power supply with another device or replace.</li><li>• Verify power wiring polarity and connection.</li></ul>
No link (Link LED off)	<ul style="list-style-type: none"><li>• Cable not connected or faulty.</li><li>• Connected device is off or faulty.</li><li>• Incorrect cable type.</li></ul>	<ul style="list-style-type: none"><li>• Ensure cable is securely connected at both ends. Replace cable if necessary.</li><li>• Verify the connected device is powered on and functioning.</li><li>• Use a standard Ethernet cable (Cat5e or better).</li></ul>
Slow network performance	<ul style="list-style-type: none"><li>• Network congestion.</li><li>• Faulty cable.</li><li>• Device speed mismatch.</li></ul>	<ul style="list-style-type: none"><li>• Check for excessive network traffic.</li><li>• Replace Ethernet cable.</li><li>• Ensure connected devices are operating at optimal speeds.</li></ul>

## 9. SPECIFICATIONS

Feature	Specification
Model	EDS-208

Feature	Specification
Ethernet Ports	8 x 10/100BaseT(X) RJ45 ports
Standards	IEEE 802.3, 802.3u, 802.3x
Data Transfer Rate	100 Megabits Per Second (Max)
Power Input	Not specified (Power Supply not Included)
Current Rating	0.07 Amps
Operating Temperature	-10 to 60°C (14 to 140°F)
Storage Temperature	Not specified
Humidity	Not specified
Housing Material	Plastic
Dimensions (L x W x H)	3.94 x 1.57 x 3.41 inches (100 x 40 x 86.6 mm)
Item Weight	1 pound (0.45 kg)
Mounting	DIN-rail

## 10. WARRANTY & SUPPORT

### 10.1. Warranty Information

Moxa products are covered by a limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Moxa website. Keep your proof of purchase for warranty claims.

### 10.2. Technical Support

If you encounter any issues that cannot be resolved using this manual, please contact Moxa technical support. You can find contact information on the official Moxa website ([www.moxa.com](http://www.moxa.com)) or through your local distributor.