

Moxa EDS-205

Moxa EDS-205 5-Port Entry-Level Unmanaged Ethernet Switch Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Moxa EDS-205 5-Port Entry-Level Unmanaged Ethernet Switch. Designed for industrial applications, this switch offers reliable 10/100BaseT(X) Ethernet connectivity in a compact, durable plastic housing.

PRODUCT OVERVIEW



Figure 1: Moxa EDS-205 5-Port Unmanaged Ethernet Switch. This image displays the front and side of the switch, highlighting its five Ethernet ports, power input, and product label with model information.

The Moxa EDS-205 is an unmanaged Ethernet switch featuring five 10/100BaseT(X) ports with RJ45 connectors. It supports IEEE802.3/802.3u/802.3x standards and includes broadcast storm protection. Its

robust plastic housing and DIN-rail mounting capability make it suitable for various industrial environments.

SETUP AND INSTALLATION

1. Package Contents

- Moxa EDS-205 Ethernet Switch
- (Power supply not included)
- Documentation (this manual)

2. Mounting the Switch

The EDS-205 is designed for DIN-rail mounting, providing a secure and space-efficient installation in industrial control cabinets. Ensure the mounting surface is stable and free from excessive vibration.

1. Attach the DIN-rail clip (if not pre-attached) 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 bottom of the switch firmly against the DIN-rail until it clicks into place.

3. Power Connection

The EDS-205 requires a 24 VDC power input (power supply not included). Connect a compatible power supply to the terminal block located on the top of the switch.

- **Operating Voltage:** 24 Volts (DC)
- **Current Rating:** 0.11 Amps
- **Wattage:** 5.28 watts

Ensure the power supply is properly grounded and provides stable voltage within the specified range to prevent damage to the device.

4. Ethernet Connections

Connect your network devices (e.g., computers, servers, other switches) to the RJ45 Ethernet ports on the front panel of the EDS-205 using standard Ethernet cables (Cat5e or Cat6 recommended).

- The switch features five 10/100BaseT(X) ports.
- Each port supports auto-negotiation for speed and duplex mode.
- Auto MDI/MDI-X functionality eliminates the need for crossover cables.

OPERATING INSTRUCTIONS

The Moxa EDS-205 is an unmanaged switch, meaning it operates without requiring any configuration. Simply connect your devices, and the switch will automatically handle data forwarding.

LED Indicators

The switch features LED indicators to provide status information:

- **Power LED (P):** Illuminates when the switch is receiving power.
- **Link/Act LEDs (per port):**
 - **Solid Green:** Indicates a valid network link is established.
 - **Flashing Green:** Indicates data activity (transmitting or receiving) on the port.
 - **Off:** No network link or device connected.

Key Features

- **Plug-and-Play:** No software configuration required.
- **Auto-Negotiation:** Automatically detects and adjusts to the network speed (10 or 100 Mbps) and duplex mode (half or full) of connected devices.
- **Auto MDI/MDI-X:** Automatically detects the type of Ethernet cable (straight-through or crossover) and adjusts accordingly.
- **Broadcast Storm Protection:** Prevents network congestion caused by excessive broadcast traffic.

MAINTENANCE

The Moxa EDS-205 is designed for minimal maintenance. However, regular checks can ensure optimal performance and longevity.

- **Cleaning:** Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid or aerosol cleaners.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature range (-10 to 60°C) and humidity levels. Avoid exposing the switch to direct sunlight, excessive heat, or moisture.
- **Cable Integrity:** Periodically inspect Ethernet cables for damage or loose connections.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power LED indication	No power supply connected or power failure.	Verify the power supply is correctly connected and functioning. Check power source.
Link/Act LED is off	No device connected, faulty cable, or device is off.	Ensure the Ethernet cable is securely connected to both the switch and the device. Check the device's power and network status. Try a different cable.
Slow network speed	Cable quality, network congestion, or device limitations.	Use Cat5e or Cat6 cables. Check for excessive network traffic. Ensure connected devices support 100 Mbps.

SPECIFICATIONS

Feature	Description
Model	EDS-205
Ports	5 x 10/100BaseT(X) RJ45 ports
Standards	IEEE802.3/802.3u/802.3x
Operating Mode	Unmanaged
Operating Voltage	24 Volts (DC)
Current Rating	0.11 Amps

Feature	Description
Wattage	5.28 watts
Housing Material	Plastic
Mounting	DIN-rail
Operating Temperature	-10 to 60°C
International Protection Rating	IP30
Product Dimensions (L x W x H)	2.9 x 1 x 3.9 inches
Item Weight	7.4 ounces





WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Moxa website or contact your local Moxa distributor. Keep your purchase receipt for warranty claims.

Online Resources: www.moxa.com

Related Documents - EDS-205

<p>EDS-205 Series Quick Installation Guide Moxa EtherDevice Switch</p> <p>Version 7.2, January 2021</p> <p>Technical Support Contact Information www.moxa.com/support</p> <p>MOXA © 2021 Moxa Inc. All rights reserved.</p> <p>ETHER DEVICE SWITCH ETHERNET SWITCH</p>	<p>Moxa EDS-205 Series Quick Installation Guide</p> <p>Comprehensive installation guide for Moxa EDS-205 Series EtherDevice™ industrial Ethernet switches, detailing setup, wiring, panel layout, and specifications for reliable industrial network connections.</p>
<p>EDS-600 Series Quick Installation Guide Moxa EtherDevice™ Switch</p> <p>Version 5.4, July 2021</p> <p>Technical Support Contact Information www.moxa.com/support</p> <p>MOXA © 2021 Moxa Inc. All rights reserved.</p> <p>ETHER DEVICE SWITCH ETHERNET SWITCH</p>	<p>Moxa EDS-600 Series Quick Installation Guide</p> <p>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.</p>

	<p>Moxa Managed Switch Next Generation OS (v3.x) User Manual</p> <p>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.</p>
	<p>Moxa EDS-2008-EL/ELP Series Industrial Ethernet Switch - Quick Installation Guide</p> <p>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.</p>
	<p>Moxa EDS-205A/208A Series: Industrial Ethernet Switch Quick Installation Guide</p> <p>Comprehensive quick installation guide for Moxa EDS-205A and EDS-208A series industrial Ethernet switches. Covers overview, panel layouts, mounting, wiring, specifications, and regulatory information.</p>
	<p>Moxa EDS-305 Series Quick Installation Guide - Industrial Ethernet Switch</p> <p>Concise and SEO-optimized HTML guide for the Moxa EDS-305 Series EtherDevice Switch, detailing features, panel layout, mounting, wiring, specifications, and regulatory information for industrial network applications.</p>