

Moxa EDS-2016-ML

Moxa EDS-2016-ML Unmanaged Ethernet Switch User Manual

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of the Moxa EDS-2016-ML Unmanaged Ethernet Switch. The EDS-2016-ML is designed for industrial applications, offering reliable network connectivity with its 16 10/100BaseT(X) ports and robust operating temperature range.

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.
- Do not expose the device to water or excessive moisture.
- Refer to local electrical codes for installation requirements.

3. PRODUCT OVERVIEW

The Moxa EDS-2016-ML is an unmanaged Ethernet switch featuring 16 10/100BaseT(X) ports. It is engineered for industrial environments, supporting an operating temperature range of -10 to 60°C. Its compact design and robust construction ensure reliable performance in demanding conditions.



Figure 1: Moxa EDS-2016-ML Unmanaged Ethernet Switch, showing its compact form factor and 16 Ethernet ports.

4. SETUP

4.1 Physical Installation

The EDS-2016-ML is typically mounted on a DIN-rail. Ensure the mounting surface is stable and provides adequate ventilation. Leave sufficient space around the switch for heat dissipation and cable routing.

4.2 Power Connection

Connect a compatible DC power supply to the terminal block on the switch. Verify that the power supply voltage matches the switch's requirements. Ensure the power connection is secure before applying power.

4.3 Network Connection

Connect standard Ethernet cables (Cat5e or better) from your network devices (e.g., computers, servers, other switches) to the 10/100BaseT(X) ports on the EDS-2016-ML. The switch will automatically detect the speed and duplex mode of connected devices.

5. OPERATING

5.1 Basic Operation

The EDS-2016-ML is an unmanaged switch, meaning it operates on a plug-and-play basis. Once powered on and connected to network devices, it will automatically forward Ethernet frames between connected ports without requiring any configuration.

5.2 LED Indicators

- **PWR LED:** Indicates power status. Lit when power is supplied.
- **Link/Act LEDs (per port):** Lit when a valid network link is established. Blinks to indicate data activity.

6. MAINTENANCE

6.1 Cleaning

Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure ventilation openings are free from dust and debris to maintain proper airflow.

6.2 Environmental Considerations

Ensure the operating environment remains within the specified temperature range of -10 to 60°C and appropriate humidity levels to prevent damage and ensure optimal performance.

7. TROUBLESHOOTING







- **No Power:** Check the power supply connection and ensure the power source is active. Verify the PWR LED is lit.
- **No Link on Port:** Ensure the Ethernet cable is securely connected at both ends. Verify the connected device is powered on and functioning correctly. Try a different cable or port.
- **Slow Network Connection:** Check for damaged cables. Ensure connected devices are operating at their expected speeds. While unmanaged, excessive network traffic or faulty devices can impact performance.




8. SPECIFICATIONS

Feature	Specification
Model	EDS-2016-ML
Ports	16 x 10/100BaseT(X) Ethernet Ports
Switch Type	Unmanaged Ethernet Switch
Operating Temperature	-10 to 60°C (14 to 140°F)
International Protection Rating	IP54
Item Weight	6.99 Pounds
Manufacturer	MOXA
Date First Available	March 10, 2021
UPC	040048839507

9. WARRANTY AND SUPPORT

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

<div><div>EDS-600 Series Quick Installation Guide</div><div>Moxa EtherDevice™ Switch</div><div>Version 1.4, July 2021</div><div>Technical Support Contact Information www.moxa.com/support</div><div> © 2021 Moxa Inc. All rights reserved.</div><div></div></div>	<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>
<div><div>Moxa's Managed Switch Next Generation OS (v3.x) User Manual</div><div>Version 1.1, January 2021</div><div>www.moxa.com/switches</div><div> © 2021 Moxa Inc. All rights reserved.</div><div></div></div>	<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>
<div><div>EDS-G4012 Series Quick Installation Guide</div><div>Moxa EtherDevice™ Switch</div><div>Version 1.0, October 2021</div><div>Technical Support Contact Information www.moxa.com/support</div><div> © 2021 Moxa Inc. All rights reserved.</div><div></div></div>	<p>Moxa EDS-G4012 Series Quick Installation Guide</p> <p>This guide provides essential information for the installation and initial setup of Moxa EDS-G4012 Series industrial Ethernet switches. It covers package contents, default settings, hardware overview, mounting procedures (DIN-rail and wall), wiring requirements, communication port details, LED indicator functions, Turbo Ring configuration, and technical specifications.</p>

<div data-bbox="124 159 303 459"><p>EDS-205 Series Quick Installation Guide</p><p>Moxa EtherDevice Switch</p><p>Version 7.2, January 2021</p><p>Technical Support Contact Information www.moxa.com/support</p><p>© 2021 Moxa Inc. All rights reserved.</p></div>	<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>
<div data-bbox="124 781 303 1081"><p>EDS-2008-EL/ELP Series Quick Installation Guide</p><p>Moxa EtherDevice Switch</p><p>Version 1.4, December 2022</p><p>Technical Support Contact Information www.moxa.com/support</p><p>© 2022 Moxa Inc. All rights reserved.</p></div>	<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>
<div data-bbox="124 1232 303 1532"><p>EDS-205A/208A Series Quick Installation Guide</p><p>Moxa EtherDevice Switch</p><p>Version 8.3, January 2021</p><p>Technical Support Contact Information www.moxa.com/support</p><p>© 2021 Moxa Inc. All rights reserved.</p></div>	<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>