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- › [Moxa](#) /
- › [MOXA EDS-405A Managed Ethernet Switch User Manual](#)

Moxa EDS-405A

MOXA EDS-405A Managed Ethernet Switch User Manual

Model: EDS-405A | Brand: Moxa

1. PRODUCT OVERVIEW

The MOXA EDS-405A is a robust 5-port entry-level managed Ethernet switch designed for industrial applications. It features five 10/100 BaseTx ports and supports advanced network management functions such as Port Base VLAN and Quality of Service (QoS). This switch is engineered to operate reliably in environments with temperatures ranging from 0°C to 60°C, providing stable and efficient network connectivity for critical systems.

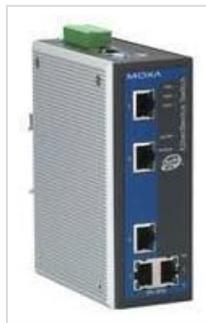


Figure 1: MOXA EDS-405A Managed Ethernet Switch. This image displays the compact, rugged metal housing of the switch, highlighting its five Ethernet ports and status indicator LEDs on the front panel. A green terminal block for power input is visible at the top.

2. KEY FEATURES

- **Network Redundancy:** Supports Turbo Ring and Turbo Chain (recovery time < 20 ms @ 250 switches), and RSTP/STP for enhanced network reliability.
- **Traffic Management:** Features IGMP Snooping, QoS (Quality of Service), IEEE 802.1Q VLAN, and port-based VLAN for efficient network traffic control.
- **Easy Management:** Offers versatile network management options via web browser, Command Line Interface (CLI), Telnet/serial console, Windows utility, and ABC-01.
- **Industrial Protocol Support:** PROFINET or EtherNet/IP enabled by default (PN or EIP models) for seamless integration into industrial automation systems.

- **Visualized Management:** Compatible with MXstudio for easy, visualized industrial network management, simplifying configuration and monitoring.

3. SETUP AND INSTALLATION

Follow these steps to properly install and set up your MOXA EDS-405A switch:

1. **Mounting:** Securely mount the switch in a suitable industrial enclosure or on a DIN-rail. Ensure adequate ventilation around the device.
2. **Power Connection:** Connect the appropriate DC power supply to the terminal block located on the top of the switch. Verify that the power source matches the switch's voltage requirements.
3. **Network Connections:** Connect your network devices (e.g., PLCs, HMIs, industrial PCs) to the RJ45 Ethernet ports on the front panel using standard Ethernet cables.
4. **Initial Configuration:** For initial setup, connect a PC directly to one of the switch's Ethernet ports. Access the switch's web-based management interface by entering its default IP address into a web browser. Refer to the product's quick installation guide for the default IP address and login credentials.
5. **Verify Operation:** Check the LED indicators on the front panel. Power LEDs should be on, and port LEDs should indicate active links and data activity.

4. OPERATING INSTRUCTIONS

The EDS-405A is a managed switch, offering various configuration options to optimize your network. Most configurations are performed via the web-based management interface or CLI.

- **Accessing the Management Interface:** Open a web browser and enter the switch's IP address. Log in using your credentials.
- **VLAN Configuration:** Navigate to the VLAN settings to segment your network into virtual local area networks. This enhances security and improves network performance by reducing broadcast domains.
- **QoS Setup:** Configure Quality of Service (QoS) to prioritize critical network traffic, such as real-time control data, ensuring consistent performance even under heavy load.
- **Redundancy Protocols:** Implement Turbo Ring or RSTP/STP to create redundant network paths, ensuring network availability in case of a link failure.
- **Monitoring:** Use the interface to monitor port status, traffic statistics, and system logs to keep track of network health and performance.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your EDS-405A switch:

- **Environmental Control:** Ensure the operating environment remains within the specified temperature (0°C to 60°C) and humidity ranges. Avoid excessive dust or moisture.
- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure ventilation openings are clear of obstructions.
- **Firmware Updates:** Check the Moxa website regularly for firmware updates. Applying the latest firmware can improve performance, add new features, and address security vulnerabilities.
- **Configuration Backup:** Regularly back up your switch's configuration settings. This allows for quick

restoration in case of accidental changes or device replacement.

- **Cable Inspection:** Periodically inspect all connected network and power cables for damage or loose connections.

6. TROUBLESHOOTING

If you encounter issues with your EDS-405A switch, consider the following troubleshooting steps:

- **No Power:**
 - Verify the power supply is correctly connected and providing the correct voltage.
 - Check the power source (outlet, power strip) for functionality.
 - Ensure the power terminal block is securely fastened.
- **No Network Connectivity:**
 - Check if the link/activity LEDs for the connected ports are lit. If not, try a different port or cable.
 - Ensure the connected device is powered on and functioning correctly.
 - Verify network cable integrity and proper connection.
 - Check the switch's configuration (VLANs, port settings) to ensure it matches your network requirements.
- **Cannot Access Web Interface:**
 - Confirm your PC's IP address is in the same subnet as the switch's IP address.
 - Ensure there are no IP address conflicts on the network.
 - Try resetting the switch to factory defaults (refer to the product manual for the reset procedure) if you have forgotten the login credentials or configuration.

If issues persist, consult the comprehensive user manual available on the Moxa website or contact Moxa technical support.

7. TECHNICAL SPECIFICATIONS

Attribute	Value
Model	EDS-405A
Brand	Moxa
Manufacturer	Moxa Inc.
Number of Ports	5 (10/100 BaseTx)
Interface Type	RJ45
Operating Temperature	0°C to 60°C
Case Material	Metal
Item Weight	1 Pounds (approx. 0.45 kg)
Package Dimensions	9 x 6.6 x 3.7 inches (approx. 22.86 x 16.76 x 9.4 cm)
Platform for Management	Web Browser

Attribute	Value
Color	Silver
Compatible Devices	Desktop (general network devices)
Switch Type	Managed Ethernet Switch
UPC	613739925133
First Available Date	January 23, 2018

8. WARRANTY AND SUPPORT

Moxa products typically come with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Moxa website. Warranty details can vary by region and product.

For technical assistance, product inquiries, or support, please contact Moxa's customer service or visit their official support portal. Ensure you have your product model (EDS-405A) and serial number ready when seeking support.

Moxa Official Website: www.moxa.com

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Related Documents - EDS-405A

 <p>Moxa's Managed Switch Next Generation OS (v3.x) User Manual</p> <p>Version 3.3, January 2023</p> <p>MOXA</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>EDS-405A/408A Series Quick Installation Guide</p> <p>Moxa EtherDevice™ Switch</p> <p>Version 12.3, January 2021</p> <p>MOXA</p>	<p>Moxa EDS-405A/408A Series Quick Installation Guide</p> <p>This guide provides quick installation instructions for Moxa EDS-405A and EDS-408A series EtherDevice switches. It covers product overview, package checklist, default settings, detailed panel layouts for various models, mounting instructions (DIN-Rail and wall), wiring requirements, communication port details, Turbo Ring settings, LED indicators, technical specifications, environmental limits, and regulatory approvals.</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>© 2021 Moxa Inc. All rights reserved.</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>EDS-G4012 Series Quick Installation Guide Moxa EtherDevice™ Switch</p> <p>Version 1.8, October 2021</p> <p>Technical Support Contact Information www.moxa.com/support</p>  <p>© 2021 Moxa Inc. All rights reserved.</p> 	<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>
<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>© 2021 Moxa Inc. All rights reserved.</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-2008-EL/ELP Series Quick Installation Guide Moxa EtherDevice Switch</p> <p>Version 1.6, December 2022</p> <p>Technical Support Contact Information www.moxa.com/support</p>  <p>© 2022 Moxa Inc. All rights reserved.</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>