

## Moxa EDS-P506E-4PoE-2GTXSFP-T

# MOXA EDS-P506E-4PoE-2GTXSFP-T Managed Ethernet PoE Switch User Manual

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the MOXA EDS-P506E-4PoE-2GTXSFP-T Managed Ethernet PoE Switch. This industrial-grade switch is designed for reliable network connectivity in harsh environments, offering Power over Ethernet (PoE+) capabilities and advanced management features.

## 2. SAFETY INFORMATION

- Always disconnect power before installing or servicing the device.
- Ensure proper grounding to prevent electrical hazards.
- Operate the device within the specified temperature and humidity ranges.
- Do not open the device casing; refer servicing to qualified personnel.
- Use only approved power supplies and cables.

## 3. PACKAGE CONTENTS

Verify that your package contains the following items:

- MOXA EDS-P506E-4PoE-2GTXSFP-T Managed Ethernet PoE Switch unit
- Quick Installation Guide
- Warranty Card
- Terminal block for power input

If any items are missing or damaged, please contact your vendor immediately.

## 4. PRODUCT OVERVIEW

### 4.1 Device Layout

The MOXA EDS-P506E-4PoE-2GTXSFP-T features a robust design suitable for industrial applications. Below is an image illustrating the front panel of the device.



Figure 1: Front panel of the MOXA EDS-P506E-4PoE-2GTXSFP-T switch. The image displays the front panel of the MOXA EDS-P506E-4PoE-2GTXSFP-T switch, featuring four 10/100BaseT(X) PoE+ ports, two combo Gigabit Ethernet ports (RJ45/SFP slots), and LED indicators for power, status, and port activity. The device has a robust, fanless design with a metal casing.

## 4.2 Port Descriptions

- **PoE+ Ports (1-4):** Four 10/100BaseT(X) ports supporting Power over Ethernet Plus (PoE+) for connecting and powering compatible devices such as IP cameras or wireless access points.
- **Combo Gigabit Ports (5-6):** Two combo 10/100/1000BaseT(X) (RJ45) or 100/1000BaseSFP (fiber) ports for high-speed uplink or backbone connections.

## 4.3 LED Indicators

- **PWR1/PWR2:** Indicates power status for redundant power inputs.
- **FAULT:** Indicates system fault or alarm status.
- **LINK/ACT:** Indicates network link status and data activity for each port.
- **PoE:** Indicates PoE power delivery status for PoE ports.

# 5. SETUP

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## 5.1 Mounting the Switch

The EDS-P506E-4PoE-2GTXSFP-T can be mounted on a DIN-rail or directly to a wall/panel. Ensure adequate space for ventilation and cable routing.

- **DIN-Rail Mounting:** Attach the DIN-rail kit to the rear of the switch and snap it onto a standard DIN-rail.
- **Wall Mounting:** Use screws to secure the switch to a flat surface via the provided mounting holes.

## 5.2 Power Connection

The switch supports dual redundant power inputs for enhanced reliability.

1. Connect a 48 VDC power source to the primary power input terminal block.
2. For redundancy, connect a second 48 VDC power source to the secondary power input terminal block.
3. Ensure correct polarity (+/-) when connecting power wires.

## 5.3 Network Connections

1. **PoE Devices:** Connect PoE-compatible devices (e.g., IP cameras, VoIP phones) to ports 1-4 using standard Ethernet cables.
2. **Non-PoE Devices:** Connect standard Ethernet devices to any available port.
3. **Uplink/Fiber:** For high-speed connections, insert appropriate SFP modules into the combo ports (5-6)

and connect fiber optic cables, or use RJ45 cables for Gigabit Ethernet.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Powering On

Once power is connected, the switch will automatically power on. Observe the PWR LEDs to confirm power status.

### 6.2 LED Status Interpretation

- **PWR1/PWR2 (Green):** On when power is supplied to the respective input.
- **FAULT (Red):** On when a system fault is detected.
- **LINK/ACT (Green/Amber):** Green indicates a 100 Mbps link, Amber indicates a 10 Mbps link. Blinking indicates data activity.
- **PoE (Green):** On when PoE power is being supplied to the connected device.

### 6.3 Management Interface

The EDS-P506E-4PoE-2GTXSFP-T is a managed switch, offering various configuration options:

- **Web-based Management:** Access the switch's web interface via a standard web browser by entering its IP address.
- **Console Port:** Connect a serial cable to the console port for command-line interface (CLI) access.
- **SNMP:** The switch supports SNMP for network management system integration.

## 7. MAINTENANCE

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### 7.1 Cleaning

Regularly 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.

### 7.2 Firmware Updates

Periodically check the MOXA official website for firmware updates. Applying the latest firmware can improve performance, add features, and address security vulnerabilities. Follow the instructions provided with the firmware package carefully.

### 7.3 Environmental Considerations

Ensure the operating environment remains within the specified temperature and humidity limits to prolong the life of the device.

## 8. TROUBLESHOOTING

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- **No Power:** Check power cable connections, power supply output, and ensure the PWR LEDs are illuminated.
- **No Link on Port:** Verify the Ethernet cable connection, check the status of the connected device, and ensure the LINK/ACT LED is active.
- **PoE Device Not Powering On:** Confirm the connected device is PoE-compatible, check the PoE LED status, and ensure the switch's PoE budget is not exceeded.

- **System Fault (FAULT LED On):** Consult the product's detailed manual or MOXA support for specific fault codes and resolutions.
- **Cannot Access Web Interface:** Verify the switch's IP address, ensure your computer is on the same subnet, and check network connectivity.

## 9. SPECIFICATIONS

Feature	Specification
Model	EDS-P506E-4PoE-2GTXSFP-T
Voltage	48 Volts
Upper Temperature Rating	75 Degrees Celsius
Interface Type	PoE
Data Transfer Rate	2 Gigabits Per Second
Number of Ports	4 (PoE+) + 2 (Combo Gigabit)
Item Weight	2.53 pounds (1.15 Kilograms)
Package Dimensions	9.88 x 6.97 x 3.27 inches
Manufacturer	MOXA
UPC	665752891940
Date First Available	August 27, 2018

## 10. WARRANTY AND SUPPORT

MOXA products are backed by a manufacturer's warranty. For detailed warranty information, please refer to the warranty card included in your package or visit the official MOXA website. For technical assistance, product support, or to report issues, please contact MOXA's customer support team through their official channels.

For the most up-to-date documentation and support resources, please visit the [Moxa official website](#).