EDS-309 Series

Industrial 9-Port Unmanaged Ethernet Switches

Highlights

> Relay output warning for power failure and port break alarm

> Redundant dual 24 VDC power inputs

> Broadcast storm protection

> -40 to 75˚C operating temperature range (T models)

> Rugged hardware design well suited for industrial environments

Features

High Performance Network Switching Technology

- 10/100BaseT(X) (RJ45), 100BaseFX (SC/ST connector, Multi mode)

- Broadcast storm protection

- IEEE802.3/802.3u/802.3x support

- Store and Forward switching process type

- 10/100M, Full/Half-Duplex, MDI/MDI-X auto sensing

Industrial Grade Reliability

- Power failure, port break alarm by relay output

- Redundant dual DC power inputs

Rugged Design

- Operating temperature range from 0 to 60°C, or extended operating temperature from -40 to 75°C

- IP30, rugged high-strength metal case

- DIN-Rail or panel mounting ability

Recommended Accessories

- DR Series DIN-Rail 24 VDC Power Supplies

Introduction

The EDS-309 series includes 9-port Ethernet switches with three Fiber ports that provide an economical solution for your industrial Ethernet connection, and the built-in relay warning function alerts maintainers when power failures or port breaks occur. The EDS-309 Series includes 2 models: one with an operating temperature range of 0 to 60°C, and the other one with extended operating temperature range of -40 to 75°C. These 2 models are designed for standard and extended operating temperatures respectively, and go through a 100% burn-in test to ensure that they fulfill the special needs of industrial automation control.

Specifications

Technology

Standards: IEEE802.3, 802.3u, 802.3x

Processing Type: Store and Forward

Flow Control: IEEE802.3x flow control, back pressure flow control

Interface

RJ45 Ports: 10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection

Fiber Ports: 100BaseFX ports (SC/ST connector)

LED Indicators: Power, Fault, 10/100M (TP port), and 100M (Fiber port)

DIP Switch: Port break alarm mask

Alarm Contact: One relay output with current carrying capacity of 1A @ 24 VDC

Optical Fiber

Distance:
Multi mode: 0 to 5 km, 1300 nm (50/125 µm, 800 MHz*km)

Min. TX Output:
Multi mode : -20 dBm

Max. TX Output:
Multi mode: -14 dBm

Sensitivity: -34 to -30 dBm

Power

Input Voltage: 24 VDC (12 to 48 VDC), redundant inputs

Input Current (@ 24 VDC): 0.35A

Overload Current Protection: 1.6A

Connection: Removable 6-pin Terminal Block

Reverse Polarity Protection: Present

Mechanical

Casing: IP30 protection, metal case

Dimensions (W x H x D): 53.6 x 135 x 105 mm
2.11 x 5.31 x 4.13 in.

Weight: 630 g

Installation: DIN-Rail or Wall Mounting (optional kit)

Environmental

Operating Temperature:

0 to 60°C (32 to 140°F),

-40 to 75°C (-40 to 167°F) for T models

Storage Temperature: -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Regulatory Approvals

Safety: UL508, UL60950-1, EN60950-1 (Pending)

Hazardous location:

UL/cUL Class, Division 2, Groups A, B, C, and D

ATEX Class 1, Zone 2, EEx nC IIC (Pending)

EMI: FCC Part 15, CISPR (EN55022) class A

EMS: EN61000-4-2 (ESD), level 3
EN61000-4-3 (RS), level 3
EN61000-4-4 (EFT), level 3
EN61000-4-5 (Surge), level 3
EN61000-4-6 (CS), level 3

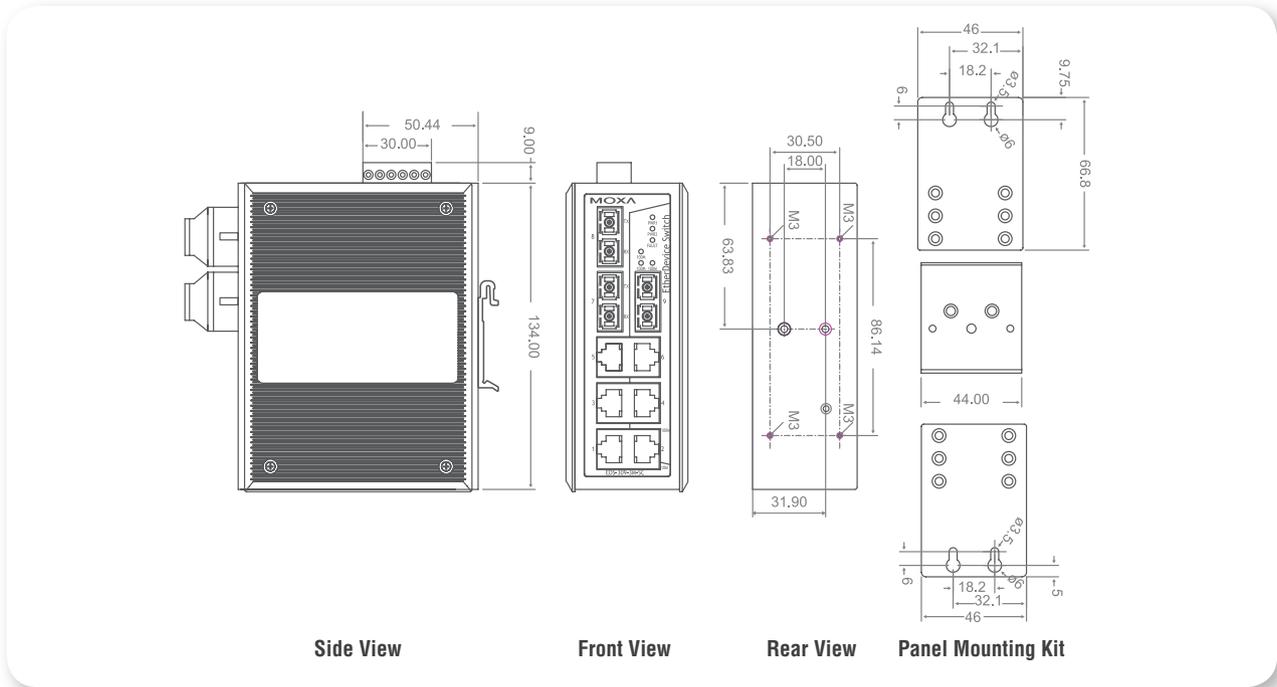**Shock:** IEC60068-2-27

Free Fall: IEC60068-2-32

Vibration: IEC60068-2-6

Maritime: DNV, GL

*Please check MOXA's website for the most up-to-date certification status.

Warranty

5 years

Dimensions (unit = mm)

Side View   Front View   Rear View   Panel Mounting Kit

Ordering Information

EDS-309-AA-BB-E

Ordering Code Definition	Fiber Port **3M:** Three Multi Mode	FO Connector **SC:** SC Connector **ST:** ST Connector	Operating Temperature **T:** Operating Temp. -40 to 75°C * Standard Models: 0 to 60°C
Available Models	Standard: • EDS-309-3M-SC • EDS-309-3M-ST		Wide Temperature: • EDS-309-3M-SC-T • EDS-309-3M-ST-T
Optional Accessories	• **DR-4524:** 45W/2A DIN-Rail 24 VDC Power Supply, 85 to 264 VAC input • **DR-75-24:** 75W/3.2A DIN-Rail 24 VDC Power Supply, 85 to 264 VAC input • **DR-120-24:** 120W/5A DIN-Rail 24 VDC Power Supply, 88 to 132 VAC/176 to 264 VAC input by switch • **WK-46:** Wall Mounting Kit		