

EDS-305-M12 Series

5-Port M12/IP67 Unmanaged Ethernet Switch



Highlights

- > M12 connectors and IP67 rated
- > 10/100BaseT(X), 4-pin M12 (D-coding), F/H duplex mode, and auto MDI/MDI-X connection
- > Power input: 12 to 45 VDC, 18 to 30 VAC
- > -40 to 75°C operating temperature range (T model)



Features

High Performance Network Switching Technology

- 5 10/100BaseT(X) ports (M12)
- Broadcast storm protection
- IEEE802.3/802.3u/802.3x supported
- Store and forward switching process type
- 10/100M, Full/Half-Duplex, MDI/MDI-X auto sensing

Industrial-grade Reliability

- Active circuit protection
- Robust connection
- Dust and immersion proof

Rugged Design

- Case design meets IP67 protection
- M12 connectors for robust connection
- Operating temperature range from 0 to 60°C, or extended operating temperature from -40 to 75°C

Recommended Accessories

- DR series DIN-Rail 24 VDC power supplies

Introduction

The EDS-305-M12 is an IP67 rated Ethernet switch, which is designed for the toughest industrial applications. The EDS-305-M12's rugged packaging and connectors guard against dust, water, and oil. The M12 connectors ensure tight and robust connections and protect

your applications from disturbances, such as the vibration and shock encountered in the transportation industry. In addition, this space-efficient switch can be mounted anywhere.

Specifications

Technology

Standards: IEEE802.3, 802.3u, 802.3x

Processing type: Store and Forward, with IEEE802.3x full duplex, non-blocking flow control

Interface

M12 Ports: 10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection

LED Indicators: Power, LNK/ACT

Power

Input Voltage: 12 to 45 VDC, 18 to 30 VAC (47 to 63 Hz)

Input Current: 0.13A @ 24 VDC
0.28A @ 24 VAC

Connection: one M12 socket (A-coding), single power input

Overload current protection / Limited current: 1.1A

Reverse polarity protection: Present

Mechanical

Casing: IP67 protection, plastic case

Dimensions (W x H x D): 59.9 x 124.9 x 29.6 mm
2.36 x 4.92 x 1.17 in.

Weight: 250 g

Installation: Field-style mounting

Environment

Operating temperature: 0 to 60°C (32 to 140°F),
-40 to 75°C (-40 to 167°F) for T model
Storage temperature: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5% to 95% (non-condensing)

Regulatory Approvals

Safety: UL508 (Pending)

Hazardous Location:

UL/cUL Class I, Division 2, Groups A and D
ATEX Class I, Zone 2, EEx nC IIC (Pending)

Maritime: DNV, GL (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 2
EN61000-4-8

EN61000-4-11

Shock: IEC60068-2-27

Freefall: IEC60068-2-32

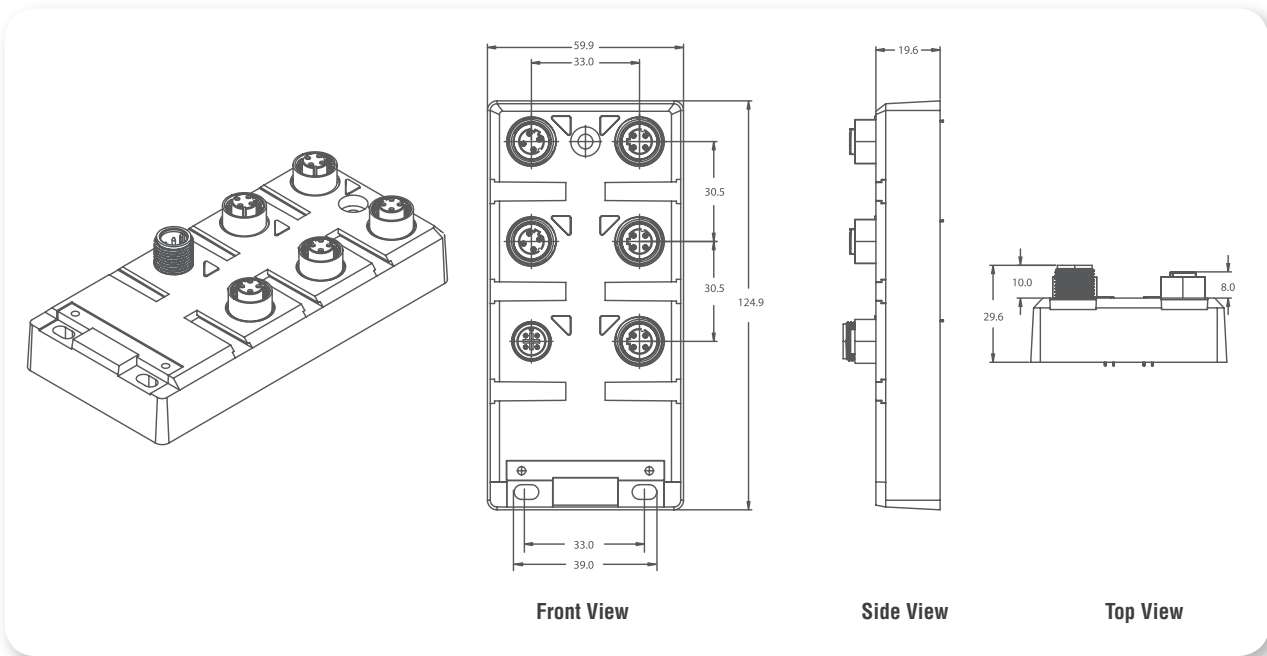
Vibration: IEC60068-2-6

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

Warranty

5 years

Dimensions (unit = mm)



Ordering Information

EDS-305-M12-A

| | | |
|---------------------------------|--|---|
| Ordering Code Definition | Connector | Operating Temperature |
| | M12: M12 Connector (4-Pin, D-coding) | T: Operating Temp. -40 to 75°C (Standard Models: 0 to 60°C) |
| Available Models | Standard: • EDS-305-M12 | Wide Temperature: • EDS-305-M12-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 | |