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# EtherDevice™ Switch EDS-308/305 Series

## Industrial 8- or 5-Port Smart Ethernet Switch

### Features

#### High Performance Network Switching Technology

- 10/100BaseT(X) (RJ45), 100BaseFX (SC type, Multi/Single mode)
- IEEE 802.3/ 802.3u/ 802.3x
- Store and Forward switching process type, 1024 address entries
- 10/100M, Full/Half-Duplex, MDI/MDIX auto-sensing

#### Industrial Grade Reliability

- Power failure, port break alarm by relay output
- Redundant dual DC power inputs

#### Rugged Design

- 0 to 60°C operating temperature range
- IP 30, rugged high-strength case
- DIN-Rail or panel mounting ability



EDS-308      EDS-308-MM      EDS-308-M      EDS-305      EDS-305-M  
EDS-308-SS      EDS-308-S      EDS-305-S



### Overview

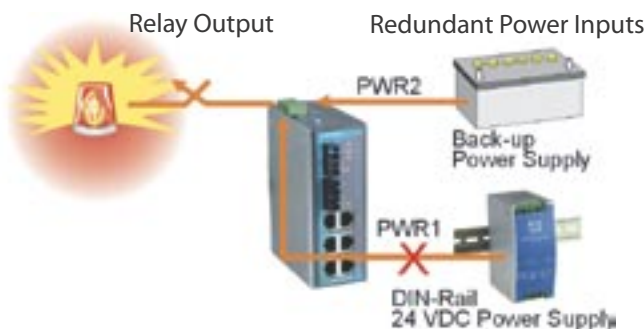
The MOXA EtherDevice™ Smart Switches, EDS-308/305 series, are 8- and 5-port Ethernet Switches that provide an economical solution for your Ethernet connection, and the built-in smart alarm function helps system maintainers monitor the health of your Ethernet network. These products have a wide operating temperature range,

from 0 to 60°C, and are designed to withstand a high degree of vibration and shock.

The rugged hardware design makes EDS-308/305 series perfect for demanding industrial environments, giving you the confidence that your industrial applications will work continuously for many years.

### Redundant Power Inputs

EDS-308/305 provides two power inputs that can be connected simultaneously to live DC power sources. If one of the power inputs fails, the other live source acts as a backup to automatically support the EDS-308/305's power needs.



### Relay Output Alarm by Port Break, Power Failure

EDS-308/305 provides relay contact outputs to warn technicians on the shop floor when the power fails or a port link

breaks, so that they can respond quickly with appropriate emergency operation procedures.



## Technology

**Standards:** IEEE802.3, 802.3u, 802.3x

**Forward and Filtering Rate:**

148810 pps

**Packet Buffer Memory:** 256 KB

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

**Address Table Size:** 1K uni-cast addresses

**Latency:** Less than 5µs

## Interface

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

**Fiber Ports:** 100BaseFX ports (SC connector)

**LED Indicators:** Power, Faults, ACT, LNK, 10/100

**DIP Switch:** Port break alarm mask

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

## Optical Fiber

**Distance:** Single mode fiber for 15 km, Multi mode fiber for 2 km

**Wavelength:** 1310 nm

**Min. TX Output:**

-15 dBm (Single), -20 dBm (Multi)

**Max. TX Output:**

-6 dBm (Single), -14 dBm (Multi)

**Sensitivity:**

-36 to -32 dBm (Single),

-34 to -30 dBm (Multi)

## Power

**Input Voltage:** 12 to 48 VDC, redundant inputs

**Connection:** Removable Terminal Block

**Input Current(@24V):**

0.25A (EDS-305, EDS-305-M, EDS-305-S, EDS-308)

0.35A (EDS-308-M, EDS-308-S, EDS-308-MM, EDS-308-SS)

**Overload Current Protection:**

1.1A (EDS-305, EDS-305-M, EDS-305-S, EDS-308)

1.6A (EDS-308-M, EDS-308-S, EDS-308-MM, EDS-308-SS)

**Reverse Polarity Protection:** Present

## Mechanical

**Casing:** IP30 protection, aluminum case

**Dimensions:**

53.6 x 135 x 105 mm (W x H x D)

**Weight:** 0.63kg

## Installation:

DIN-Rail, Wall Mounting

## Environment

**Operating Temperature:**

0 to 60°C (32 to 140°F)

**Storage Temperature:**

-40 to 85°C (-40 to 185°F)

**Ambient Relative Humidity:**

5 to 95% (non-condensing)

## Regulatory Approvals

**UL/CUL:** UL60950

**TÜV:** EN60950

**FCC** Part 15 class A

**EMI:** EN55022

**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

## WARRANTY

5 years

## Specifications

## Ordering Information

### Industrial 8-port Smart Ethernet Switch

**EDS-308:** Industrial Smart Ethernet Switch with 8 10/100BaseT(X) ports

**EDS-308-M-SC:** Industrial Smart Ethernet Switch with 7 10/100BaseT(X) ports, 1 multi mode 100BaseFX port

**EDS-308-S-SC:** Industrial Smart Ethernet Switch with 7 10/100BaseT(X) ports, 1 single mode 100BaseFX port

**EDS-308-MM-SC:** Industrial Smart Ethernet Switch with 6 10/100BaseT(X) ports, 2 multi mode 100BaseFX ports

**EDS-308-SS-SC:** Industrial Smart Ethernet Switch with 6 10/100BaseT(X) ports, 2 single mode 100BaseFX ports

### Industrial 5-port Smart Ethernet Switch

**EDS-305:** Industrial Smart Ethernet Switch with 5 10/100BaseT(X) ports

**EDS-305-M-SC:** Industrial Smart Ethernet Switch with 4 10/100BaseT(X) ports, 1 multi mode 100BaseFX port

**EDS-305-S-SC:** Industrial Smart Ethernet Switch with 4 10/100BaseT(X) ports, 1 single mode 100BaseFX port

All items include User's Manual

### Optional Accessories

**DR-4524:** 45W/2A DIN-Rail 24 VDC Power Supply with universal 85 to 264 VAC input

**DR-75-24:** 75W/3.2A DIN-Rail 24 VDC Power Supply with universal 85 to 264 VAC input

**DR-120-24:** 120W/5A DIN-Rail 24 VDC Power Supply with 88 to 132 VAC/176 to 264 VAC input by switch

See page 7-3 for more detailed information about these DIN-Rail Power Supplies.

**WK-46:** Wall Mounting kit