# *EtherDevice™ Switch EDS-205*

## Industrial 5-Port Unmanaged Ethernet Switch

### Features

**High Performance Network Switching Technology**

- **10/100BaseT(X) (RJ45)**
- **Broadcast Storm Protection**
- **Supports IEEE 802.3/ 802.3u/ 802.3x**
- **Store and Forward switching process type**
- **10/100M, Full/Half-Duplex, MDI/MDI-X auto-sensing**

**Industrial Rugged Design**

- **Operating temperature range from –10 to 60°C**
- **Case design meets IP30 protection standard**
- **Power inputs support 12 to 48 VDC; or 18 to 30 VAC (47 to 63 Hz)**
- **DIN-Rail mounting ability**

**Recommended Accessories**

- **DR Series DIN-Rail 24 VDC Power Supplies**

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### ◤ Overview

The EDS-205 EtherDevice™ Switch is an entry-level industrial 5-port Ethernet switch that supports IEEE 802.3/802.3u/802.3x with 10/100M, full/half-duplex, MDI/MDIX auto-sensing RJ45 ports. EDS-205 is rated to operate at temperatures ranging from -10 to 60°C, and rugged enough for any harsh industrial environment. EDS-205 can be easily installed with DIN-Rail mounting as well as distribution boxes. The DIN-rail mounting ability, wide operating temperature, and the the IP30 case with LED indicators make EDS-205 EtherDevice™ Switch a ready plug-and-play, yet reliable solution for your Industrial Ethernet connection.

### ◤ DC or AC Power Input Options

With EDS-205 EtherDevice™ Switch, you can choose either a DC power input from 12V to 48V, or AC power input from 18V to 30V. The 24 VAC power input is specially designed for applications in the building automation field where the source of power input is often restricted. EDS-205 EtherDevice™ Switch is a low-cost versatile solution for all industrial applications.

### ◤ Broadcast Storm Protection

EDS-205 protects itself from receiving too many broadcast packets. During normal use, broadcast packets will be forwarded to all ports except the source port. However, EDS-205 will discard broadcast or multicast packets if the number of those packets exceeds a threshold in a preset period of time. When the preset period expires, it will then resume receiving broadcast or multicast packets until the threshold is reached again.

## Specifications

### Technology

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

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

**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

**LED Indicators:** Power, 10/100M

### Power

**Input Voltage:** 24 VDC (12 to 48 VDC), or
24 VAC (18 to 30 VAC), 47 to 63 Hz

**Input Current :**
24 VDC (12 to 48 VDC), 5 W
24 VAC (18 to 30 VAC), 5 VA, 47 to 63 Hz

**Connection:** Removable 3-contact Terminal Block

**Reverse Polarity Protection:** Present

**Overload Current Protection:** 1.1 A

**Reverse Polarity Protection:** Present

### Mechanical

**Casing:** IP30 protection, plastic case

**Dimensions:** 25 x 109 x 88 mm (W x H x D)

**Weight:** 135 g

**Installation:** DIN-Rail

### Environmental

**Operating Temperature:** -10 to 60°C (14 to 140°F)

**Storage Temperature:** -40 to 70°C (-40 to 185°F)

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

### Regulatory Approvals

**Safety:** UL 508

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

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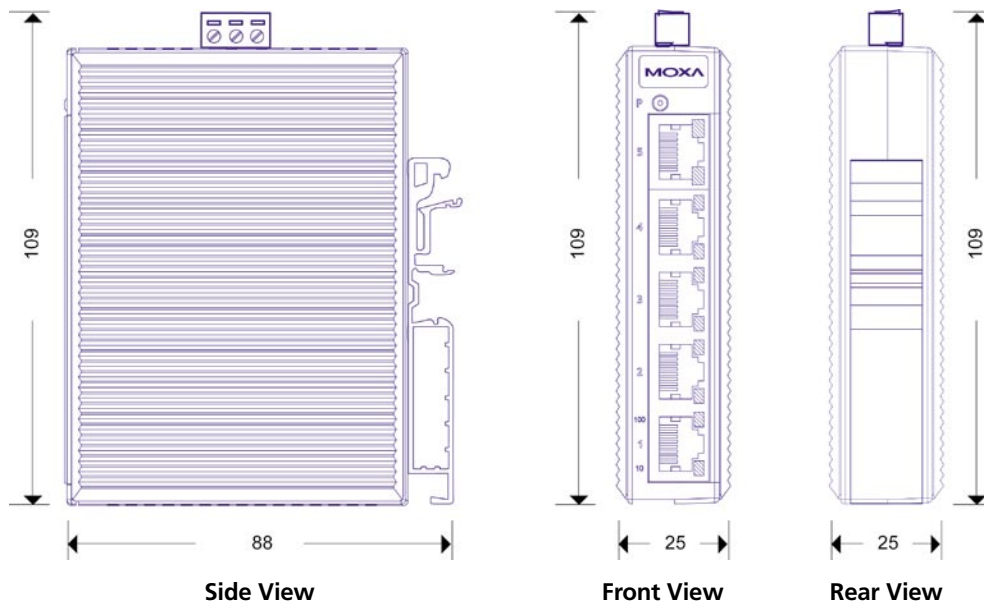EN61000-4-5 (Surge)
EN61000-4-6 (CS)

**Shock:** IEC60068-2-27

**Free Fall:** IEC60068-2-32

**Vibration:** IEC60068-2-6

**MTBF:** 320,000 hrs

**WARRANTY:** 5 years

## Dimensions (unit = mm)



Side View          Front View          Rear View

## Ordering Information

**EDS-205:** Industrial Ethernet Switch with 5 10/100BaseT(X) ports; Operating Temp.: -10 to 60°C

### 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 5-6 for more detailed information about these DIN-Rail Power Supplies.**