

EtherDevice™ Switch EDS-208/205 Series

Industrial 8- or 5-Port Unmanaged Ethernet Switches



Highlights

- 8- or 5-port unmanaged switches with 10/100BaseT(X) (RJ45), 100BaseFX (Multi mode, SC/ST connector)
- IEEE802.3/802.3u/802.3x support
- -10 to 60°C operating temperature range
- Power inputs: 12 to 45 VDC, 18 to 30 VAC
- DIN-Rail mounting ability



Features

High Performance Network Switching Technology

- 10/100BaseT(X) (RJ45) and 100BaseFX (SC/ST connector, Multi mode)
- Broadcast storm protection
- Supports IEEE802.3/802.3u/802.3x support
- 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 24 VDC or 24 VAC
- DIN-Rail mounting ability

Recommended Accessories

- DR Series DIN-Rail 24 VDC Power Supplies

Introduction

The EDS-208/205 series of industrial Ethernet switches are entry-level industrial 8/5-port Ethernet switches that support IEEE802.3/802.3u/802.3x with 10/100M, full/half-duplex, MDI/MDIX auto-sensing RJ45 ports. EDS-208/205 series switches are rated to operate at temperatures ranging from -10 to 60°C, and are rugged enough for any harsh industrial environment.

EDS-208/205 series switches can be easily installed with DIN-Rail mounting as well as distribution boxes. The DIN-rail mounting ability, wide operating temperature, and the IP30 case with LED indicators make the plug-and-play EDS-208/205 switches easy to use and reliable.

DC or AC Power Input Options

With EDS-208/205 series EtherDevice™ Switches, you can choose either a 24 VDC or 24 VAC power input. 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-208/205 series EtherDevice™ Switches are low-cost versatile solutions for all industrial applications.

Broadcast Storm Protection

EDS-208/205 series 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-208/205 series 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, Full/Half duplex mode, and auto MDI/MDI-X connection

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

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

Optical Fiber

Distance: 0 to 5 km, 1300 nm (50/125 μm, 800 MHz*km)
0 to 4 km, 1300 nm (62.5/125 μm, 500 MHz*km)

Min. TX Output: -20 dBm

Max. TX Output: -14 dBm

Sensitivity: -34 to -30 dBm

Power

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

Input Current (@ 24 VDC): 0.15 A (EDS-208)
0.13 A (EDS-205)
0.25A (EDS-208-M)

Input Current (@ 24 VAC): 0.22 A (EDS-208)
0.28 A (EDS-205)
0.33A (EDS-208-M)

Connection: Removable 3-contact Terminal Block

Overload Current Protection: 1.1A

Reverse Polarity Protection: Present

Mechanical

Casing: IP30 protection, plastic case

Dimensions (W x H x D): EDS-208 series: 40 x 109 x 95 mm
1.57 x 4.29 x 3.74 in.
EDS-205 : 25 x 109 x 88 mm
0.98 x 4.29 x 3.46 in.

Weight: EDS-208 series: 170 g
EDS-205: 135 g

Installation: DIN-Rail mounting

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 (Pending for EDS-208 Series)

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

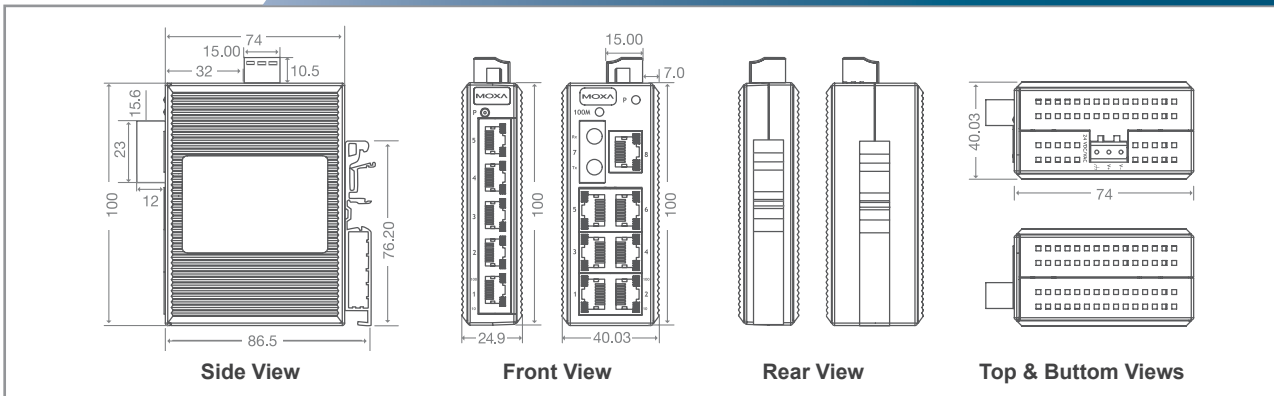
Freefall: IEC60068-2-27

Vibration: IEC60068-2-6

Warranty

5 years

Dimensions (unit = mm)



Ordering Information

EDS-208/205-A-BB

Ordering Code Definition	Fiber Port	FO Connector
	M: One Multi Mode S: One Single Mode	SC: SC Connector ST: ST Connector

Available Models	Standard: • EDS-205 • EDS-208	• EDS-208-M-SC • EDS-208-M-ST
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* For detailed information, please check the above specifications.

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
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