EDS-208/205 Series

8- or 5-Port Entry-level Unmanaged Ethernet Switch

Highlights

- 10/100BaseT(X) (RJ45), 100BaseFX (Multi mode, SC/ST connector)
- Support IEEE802.3/802.3u/802.3x
- -10 to 60˚C operating temperature range
- Power inputs: 12 to 45 VDC, 18 to 30 VAC
- Broadcast storm protection
- DIN-Rail mounting ability

3

Unmanaged Ethernet Switches EDS-208/205

Features

High Performance Network Switching Technology

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

Rugged Industrial 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 the IP30 case with LED indicators make the plug-and-play EDS-208/205 switches easy to use and reliable.

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, 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

RX 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)
0.25 A (EDS-208-M)

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

EDS-208 series: UL508, UL60950-1

EDS-205: UL508

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)
EN61000-4-8
EN61000-4-11

Shock: IEC60068-2-27

Freefall: IEC60068-2-32

Vibration: IEC60068-2-6

MTBF: EDS-208 series: 368,000 hrs
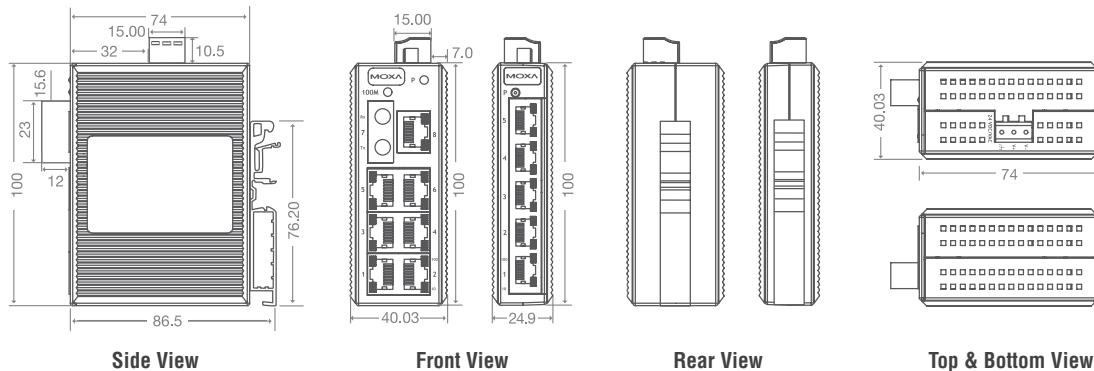Database: MIL-HDBK-217F, GB 25°C
EDS-205: 323,000 hrs
Database: Telcordia (Bellcore), GB

*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 | Top & Bottom View |

: 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
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	