EDS-205/208/205A/208A Series

5 and 8-port entry-level unmanaged Ethernet switches

> ❯ 10/100BaseT(X) (RJ45 connector), 100BaseFX (Multi mode, SC or ST connector)
> ❯ Supports IEEE 802.3/802.3u/802.3x
> ❯ Redundant dual 12/24/48 VDC power inputs (EDS-205A/208A)
> ❯ IP30 metal housing (EDS-205A/208A)
> ❯ -10 to 60°C operating temperature range

The certification logos shown here apply to some or all of the products in this section. Please see the **Specifications** section or Moxa's website for details.

Introduction

The EDS-205/208 and EDS-205A/208A are entry-level 8 and 5-port industrial Ethernet switches that support IEEE 802.3 and IEEE 802.3u/x with 10/100M full/half-duplex, MDI/MDI-X auto-sensing. The EDS-205A/208A switches provide 12/24/48 VDC (9.6 to 60 VDC), 18-30 VAC redundant power inputs that can be connected simultaneously to live DC/AC power sources. In addition, the EDS-205A/208A switches are rated to operate at temperatures ranging from -10 to 60°C, and IP30-rated metal housing is rugged enough for any harsh industrial environment. The EDS-205A/208A have DIP switches for enabling or disabling broadcast storm protection, providing another level of flexibility for different industrial applications.

The EDS-205A/208A/205/208 switches are easy to install on a DIN-Rail or in distribution boxes. The DIN-Rail mounting capability, wide operating temperature, and the IP30-rated housing with LED indicators make these plug-and-play switches easy to use and extremely reliable.

Comparison Chart for EDS-200A/200 Switches

	Power Redundancy	Metal housing	DIP Switch	Power Range
EDS-205 EDS-208	---	----	---	12 to 45 VDC
EDS-205A EDS-208A	√	√	√	12/24/48 VDC (9.6 to 60 VDC)

Specifications

Technology
Standards: IEEE 802.3 for 10BaseT,
IEEE 802.3u for 100BaseT(X), 100BaseFX,
IEEE 802.3x for Flow Control
Processing Type: Store and Forward
Flow Control: IEEE 802.3x 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 Requirements
EDS-205/208 series
Input Voltage: 12 to 45 VDC, 18 to 30 VAC (47 to 63 Hz)
Input Current (@ 24 V): 0.12A (EDS-205), 0.14A (EDS-208), 0.23A (EDS-208-M)
Connection: Removable 3-contact terminal block
Overload Current Protection: 1.1A

Reverse Polarity Protection: Present
EDS-205A/208A series
Input Voltage: 12/24/48 VDC (9.6 to 60 VDC), 18 to 30 VAC (47 to 63 Hz)
Connection: Removable 4-contact terminal block
Reverse Polarity Protection: Present

Physical Characteristics
Housing:
EDS-205/208: Plastic, IP30 protection
EDS-205A/208A: Metal, IP30 protection
Dimensions (W x H x D):
EDS-205: 25 x 109 x 88 mm (0.98 x 4.29 x 3.46 in)
EDS-208: 40 x 109 x 95 mm (1.57 x 4.29 x 3.74 in)
EDS-205A: 30 x 115 x 70 mm (1.18 x 4.52 x 3.74 in)
EDS-208A: 50 x 115 x 70 mm (1.96 x 4.52 x 3.74 in)
Weight: EDS-205: 135 g
EDS-208: 170 g
Installation: DIN-Rail mounting

Environmental Limits
Operating Temperature: -10 to 60°C (14 to 140°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

Regulatory Approvals
Safety: EDS-205: UL508
EDS-208: UL508, UL60950-1

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-205: 323,000 hrs
　　　Database: Telcordia (Bellcore), GB
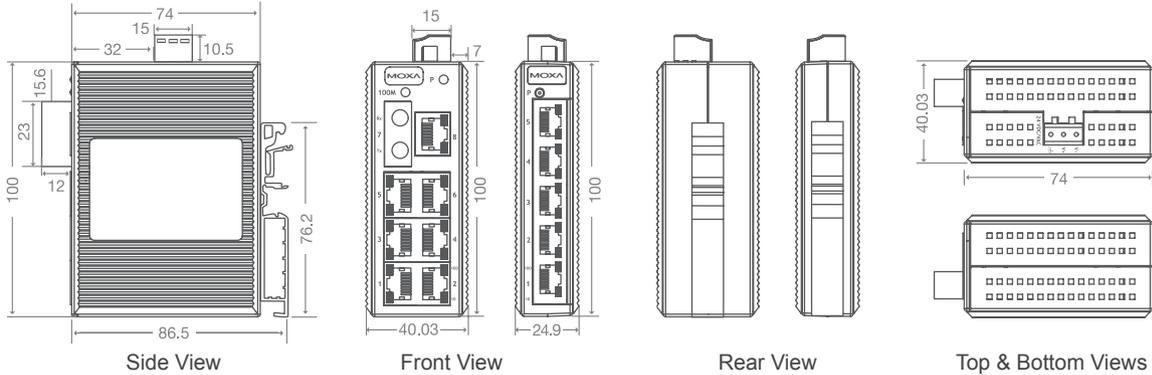　　　EDS-208: 368,000 hrs
　　　Database: MIL-HDBK-217F, GB 25℃
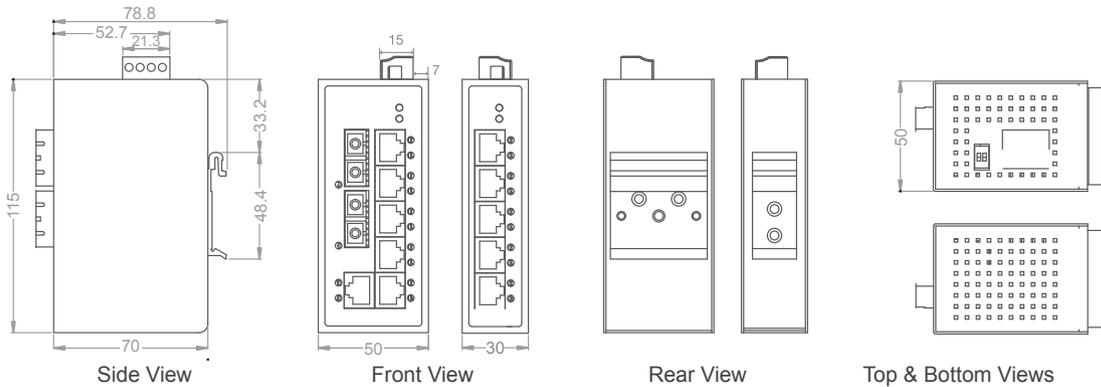　　　*Please check Moxa's website for the most up-to-date certification status.

Warranty

5 years (see www.moxa.com/warranty for details)

Dimensions (unit = mm)

EDS-205/208

Side View　　Front View　　Rear View　　Top & Bottom Views

EDS-205A/208A

Side View　　Front View　　Rear View　　Top & Bottom Views

⁞ Ordering Information

Model Name	Port Interface			Housing	Power Range
		100BaseFX			
Standard Temperature (-10 to 60°C)	10/100BaseT(X)	Mulit Mode, SC Connector	Multi Mode, ST Connector	Housing	Power Range
EDS-205/208 Series					
EDS-205	5	---	---	Plastic	12 to 45 VDC
EDS-208	8	---	---	Plastic	12 to 45 VDC
EDS-208-M-SC	7	1	---	Plastic	12 to 45 VDC
EDS-208-M-ST	7	---	1	Plastic	12 to 45 VDC
EDS-205A/208A Series					
EDS-205A	5	---	---	Metal	12/24/48 VDC (9.6 to 60 VDC)
EDS-208A	8	---	---	Metal	12/24/48 VDC (9.6 to 60 VDC)
EDS-208A-M-SC	7	1	---	Metal	12/24/48 VDC (9.6 to 60 VDC)
EDS-208A-M-ST	7		1	Metal	12/24/48 VDC (9.6 to 60 VDC)

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
- **WK-46:** Wall mounting kit
- **RK-4U:** 4U-high 19" rack mounting kit