

EDS-205A/208A Series

5 and 8-port unmanaged Ethernet switches



- > 10/100BaseT(X) (RJ45 connector), 100BaseFX (multi/single-mode, SC or ST connector)
- > Redundant dual 12/24/48 VDC, 18 to 30 VAC power inputs
- > IP30 aluminum housing
- > Rugged hardware design well suited for hazardous locations (Class I Div. 2 / ATEX Zone 2) and maritime environments (DNV/GL/LR/ABS/NK)
- > -40 to 75°C operating temperature range (T models)

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: Introduction

The EDS-205A/208A series are 5 and 8-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 to 30 VAC redundant power inputs that can be connected simultaneously to live AC/DC power sources. These switches have been designed for harsh industrial environments, such as in maritime (DNV/GL/LR/ABS/NK) or hazardous locations (Class I Div. 2, ATEX Zone 2) that comply with FCC, UL, and CE standards.

The EDS-205A/208A switches are available with a standard operating temperature range from -10 to 60°C, or with a wide operating temperature range from -40 to 75°C. All models are subjected to a 100% burn-in test to ensure that they fulfill the special needs of industrial automation control applications. In addition, the EDS-205A/208A switches have DIP switches for enabling or disabling broadcast storm protection, providing another level of flexibility for industrial applications.

: Specifications

Technology

Standards:

IEEE 802.3 for 10BaseT

IEEE 802.3u for 100BaseT(X) and 100BaseFX

IEEE 802.3x for Flow Control

Processing Type: Store and Forward

Flow Control: IEEE 802.3x flow control, back pressure flow control

Switch Properties

MAC Table Size: 1 K

Packet Buffer Size: 512 Kbit

Interface

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

RJ45 Ports: 10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection

DIP Switches: Enable/Disable broadcast storm protection

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

Optical Fiber

	100BaseFX	
	Multi-mode	Single-mode
Wavelength	1300 nm	1310 nm
Max. TX	-10 dBm	0 dBm
Min. TX	-20 dBm	-5 dBm
RX Sensitivity	-32 dBm	-34 dBm
Link Budget	12 dB	29 dB
Typical Distance	5 km ^a 4 km ^b	40 km ^c
Saturation	-6 dBm	-3 dBm

a. 50/125 μm, 800 MHz*km fiber optic cable

b. 62.5/125 μm, 500 MHz*km fiber optic cable

c. 9/125 μm single-mode fiber optic cable

Power Requirements

Input Voltage: 12/24/48 VDC (9.6 to 60 VDC), 18 to 30 VAC (47 to 63 Hz), redundant dual inputs

Input Current:

EDS-205A: 0.1 A @ 24 V

EDS-205A-M/S: 0.11 A @ 24 V

EDS-208A: 0.13 A @ 24 V

EDS-208A-M: 0.17 A @ 24 V

EDS-208A-MM/SS: 0.22 A @ 24 V

Overload Current Protection: 1.1 A

Connection: 1 removable 4-contact terminal block

Reverse Polarity Protection: Present

Physical Characteristics

Housing: Aluminum, IP30 protection

Dimensions:

EDS-205A: 30 x 115 x 70 mm (1.18 x 4.52 x 2.76 in)

EDS-208A: 50 x 115 x 70 mm (1.96 x 4.52 x 2.76 in)

Weight:

EDS-205A: 175 g

EDS-208A: 275 g

Installation: DIN-Rail mounting, wall mounting (with optional kit)

Environmental Limits

Operating Temperature:

Standard Models: -10 to 60°C (14 to 140°F)

Wide Temp. Models: -40 to 75°C (-40 to 167°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

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

Standards and Certifications

Safety: UL 508

Hazardous Location: UL/cUL Class I Division 2 Groups A/B/C/D, ATEX

Zone 2 Ex nC IIC

EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A

EMS:

EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 3,

EN 61000-4-4 (EFT) Level 3, EN 61000-4-5 (Surge) Level 3,

EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN 61000-4-11

Marine: DNV, GL, LR, ABS, NK

Wheeled Vehicles: e-Mark (E1) (EDS-208A only)

Rail Traffic: EN 50121-4

Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Note: Please check Moxa's website for the most up-to-date certification status.

MTBF (mean time between failures)

Time: 425,000 hrs

Database: Telcordia (Bellcore), GB

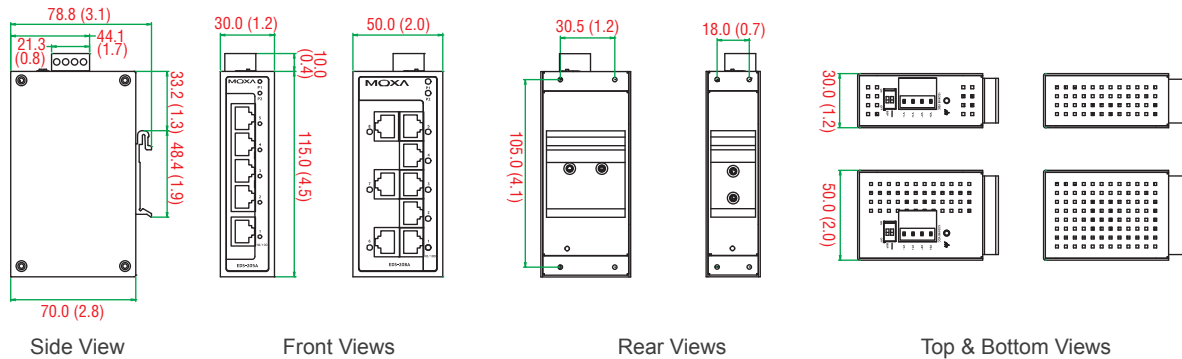
Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



Ordering Information

Available Models		Port Interface			
Standard Temperature (-10 to 60°C)	Wide Temperature (-40 to 75°C)	10/100BaseT(X)	100BaseFX		
			Multi-mode, SC Connector	Multi-mode, ST Connector	Single-mode, SC Connector
EDS-205A	EDS-205A-T	5	—	—	—
EDS-205A-M-SC	EDS-205A-M-SC-T	4	1	—	—
EDS-205A-M-ST	EDS-205A-M-ST-T	4	—	1	—
EDS-205A-S-SC	EDS-205A-S-SC-T	4	—	—	1
EDS-208A	EDS-208A-T	8	—	—	—
EDS-208A-M-SC	EDS-208A-M-SC-T	7	1	—	—
EDS-208A-M-ST	EDS-208A-M-ST-T	7	—	1	—
EDS-208A-MM-SC	EDS-208A-MM-SC-T	6	2	—	—
EDS-208A-MM-ST	EDS-208A-MM-ST-T	6	—	2	—
EDS-208A-S-SC	EDS-208A-S-SC-T	7	—	—	1
EDS-208A-SS-SC	EDS-208A-SS-SC-T	6	—	—	2

Optional Accessories (can be purchased separately)

DR-4524/75-24/120-24: 45/75/120 W DIN-Rail 24 VDC power supplies

MDR-40-24/60-24: 40/60 W DIN-Rail 24 VDC power supplies, -20 to 70°C operating temperature

WK-30: Wall mounting kit (EDS-205A series only)

WK-46: Wall mounting kit (EDS-208A series only)

RK-4U: 4U-high 19" rack mounting kit

Package Checklist

- EDS-205A or EDS-208A switch
- Hardware installation guide (printed)
- Warranty card

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



AutoCont IPC a.s.

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