EDS-205/208 Series

-5 and 8-port entry-level unmanaged Ethernet switches



- > 10/100BaseT(X) (RJ45 connector), 100BaseFX (multi-mode, SC/ ST connectors)
- > IEEE802.3/802.3u/802.3x support
- > Broadcast storm protection
- > DIN-Rail mounting ability
- > -10 to 60°C operating temperature range

Industrial^{IT} CULUS CEFC

Introduction

The EDS-205/208 series of industrial Ethernet switches are entrylevel industrial 5 and 8-port Ethernet switches that support IEEE 802.3/802.3u/802.3x with 10/100M, full/half-duplex, MDI/MDIX autosensing RJ45 ports. The EDS-205/208 switches are rated to operate at temperatures ranging from -10 to 60°C, and are rugged enough for any harsh industrial environment. The switches can be easily installed on a DIN-Rail as well as in distribution boxes. The DIN-Rail mounting capability, wide operating temperature, and the the IP30 housing with LED indicators make the plug-and-play EDS-205/208 switches easy to use and reliable.

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

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 $\mu m,\,800~MHz^*km$ fiber optic cable

b. 62.5/125 $\mu m,\,500~\text{MHz}^*\text{km}$ fiber optic cable

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

Power Requirements

Input Voltage: EDS-205: 12 to 48 VDC, 18 to 30 VAC (47 to 63 Hz) EDS-208 series: 12 to 45 VDC, 18 to 30 VAC (47 to 63 Hz) Input Current: EDS-205: 0.12 A @ 24 V EDS-208: 0.14 A @ 24 V EDS-208-M: 0.23 A @ 24 V Overload Current Protection: 1.1 A Connection: 1 removable 3-contact terminal block Reverse Polarity Protection: Present

Physical Characteristics

Housing: Plastic, IP30 protection Dimensions: EDS-205: 24.9 x 100 x 86.5 mm (0.98 x 3.94 x 3.41 in) EDS-208: 40 x 100 x 86.5 mm (1.57 x 3.94 x 3.41 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)

Standards and Certifications Safetv:

EDS-205: UL 508, EN 60950-1 EDS-208: UL 508. UL 60950-1. EN 60950-1 EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A EMS: EN 61000-4-2 (ESD) Level 2, 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) (EDS-205: Level 3; EDS-208: Level 2), EN 61000-4-8, EN 61000-4-11 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: EDS-205: 323.000 hrs EDS-208: 368.000 hrs Database: EDS-205: Telcordia (Bellcore), GB EDS-208: MIL-HDBK-217F, GB 25°C

Warrantv

Warranty Period: 5 years Details: See www.moxa.com/warranty

Unit: mm (inch) 74.0 (2.9) 15.0 (0.6) 15.0 (0.6) 32.0 (1.3) 40.0 (1.6 100.0 (3.9 74.0 (2.9) 40.0 (1.6) 86.5 (3.4) 24.9 (1.0 Side View Front Views Rear Views Top & Bottom Views

Ordering Information

Available Models	Port Interface				
Standard Temperature (-10 to 60°C)		100BaseFX		Housing Material	Power Range
	10/100BaseT(X)	Multi-mode,	Multi-mode,		r uwei mange
		SC Connector	ST Connector		
EDS-205	5	-	-	Plastic	12 to 48 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

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

Package Checklist

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

Dimensions