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

: 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

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

Switch Properties

MAC Table Size: 1 K Packet Buffer Size: 512 kbit

Interface

 $\mbox{RJ45}$ 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)

Optical Fiber

			100BaseF	X
			ulti-Mode	Single-Mode
Fiber Cable Type		OM1	50/125 µm	G.652
			800 MHz*km	
Typical Distance		4 km	5 km	40 km
Wave- length	Typical (nm)	1300		1310
	TX Range (nm)	1260 to 1360		1280 to 1340
	RX Range (nm)	1100 to 1600		1100 to 1600
Optical Power	TX Range (dBm)	-10 to -20		0 to -5
	RX Range (dBm)	-3 to -32		-3 to -34
	Link Budget (dB)	12		29
	Dispersion Penalty (dB)	3		1

Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power. Note: Compute the "typical distance" of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB). 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 IP30 housing with LED indicators make the plug-and-play EDS-205/208 switches easy to use and reliable.

Power Requirements

Input Voltage:

EDS-205: 24 VDC (12 to 48 VDC), 18 to 30 VAC (47 to 63 Hz), single input

EDS-208 Series: 24 VDC (12 to 45 VDC), 18 to 30 VAC (47 to 63 Hz), single input

Input Current:

EDS-205: 0.11 A @ 24 V EDS-208: 0.12 A @ 24 V EDS-208-M: 0.2 A @ 24 V **Overload Current Protection:** 1.1 A **Connection:** 1 removable 3-contact terminal block

Reverse Polarity Protection: Present

 Physical Characteristics

 Housing: Plastic

 IP Rating: IP30 protection

 Dimensions:

 EDS-205: 24.9 x 100 x 86.5 mm (0.98 x 3.94 x 3.41 in)

 EDS-208 Series: 40 x 100 x 86.5 mm (1.57 x 3.94 x 3.41 in)

 Weight:

 EDS-205: 135 g (0.30 lb)

EDS-208 Series: 170 g (0.38 lb) 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

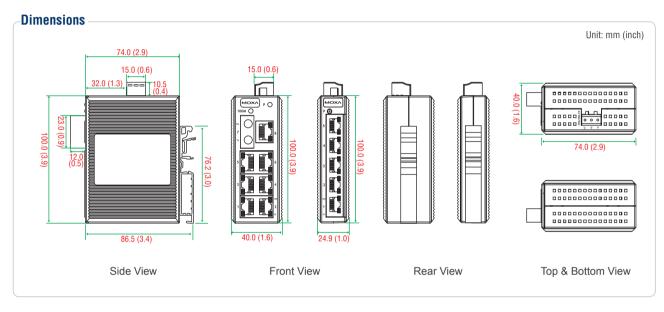
Safetv: EDS-205: UL 508. EN 60950-1 EDS-208 Series: UL 508 EMC: EN 55022/24 EMI: CISPR 22, FCC Part 15B Class A EMS: IEC 61000-4-2 ESD: Contact: 4 kV: Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 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: 3,915,945 hrs EDS-208: 401,624 hrs

EDS-208-M-SC/ST: 368,353 hrs Standard: Telcordia (Bellcore), GB Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty



: Ordering Information

 \mathbf{v}

Available Models	Available Models Port Interface				
Otondoud Tompovoluus		100BaseFX		Housing Material	Power Range
Standard Temperature (-10 to 60°C)	10/100BaseT(X)	Multi-Mode,	Multi-Mode,		rower nalige
(-1010000)		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-inch rack-mounting kit

Package Checklist

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