# **EDS-208 Series**

# 8-port entry-level unmanaged Ethernet switches



## **Features and Benefits**

- 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

### Certifications



## Introduction

The EDS-208 Series supports IEEE 802.3/802.3u/802.3x with 10/100M, full/half-duplex, MDI/MDIX auto-sensing RJ45 ports. The EDS-208 Series is rated to operate at temperatures ranging from -10 to 60°C, and is 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 capability, and the IP30 housing with LED indicators make the plug-and-play EDS-208 switches easy to use and reliable.

## **Specifications**

#### **Ethernet Interface**

Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3x for flow control				
10/100BaseT(X) Ports (RJ45 connector)	EDS-208: 8 EDS-208-M-SC: 1 EDS-208-M-ST: 1 Auto negotiation speed Full/Half duplex mode Auto MDI/MDI-X connection				
100BaseFX Ports (multi-mode SC connector)	EDS-208-M-SC: 1				
100BaseFX Ports (multi-mode ST connector)	EDS-208-M-ST: 1				
Optical Fiber	100BaseFX				
			Multi-Mode		Single-Mode
	Fiber Cable Type Typical Distance		OM1	50/125 μm	G.652
				800 MHz x km	
			4 km	5 km	40 km
		Typical (nm)	1300 1310		1310
	Wavelength	TX Range (nm)	1260 to 1360 1		1280 to 1340
		RX Range (nm)	1100 to 1600		1100 to 1600



		100BaseFX			
		N	lulti-Mode	Single-Mode	
Fiber Cable Type		OM1	50/125 µm	G.652	
		OMT	800 MHz x km		
	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).

Switch Properties	
Processing Type	Store and Forward
MAC Table Size	2 K
Packet Buffer Size	768 kbits
Power Parameters	
Input Voltage	12/24/48 VDC
Operating Voltage	9.6 to 60 VDC
Input Current	EDS-208 Models: 0.07 A @ 24 VDC EDS-208-M Models: 0.1 A @ 24 VDC
Connection	1 removable 3-contact terminal block(s)
Overload Current Protection	2.5 A @ 24 VDC
Reverse Polarity Protection	Supported
Physical Characteristics	
Housing	Plastic
IP Rating	IP30
Dimensions	40 x 100 x 86.5 mm (1.57 x 3.94 x 3.41 in)
Weight	170 g (0.38 lb)
Installation	DIN-rail mounting
Environmental Limits	
Operating Temperature	-10 to 60°C (14 to 140°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
Safety	UL 508 UL 60950-1 EN 62368-1
EMC	EN 55032/35



EMI	CISPR 32, 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: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
Freefall	IEC 60068-2-32
MTBF	
Time	EDS-208 Models: 3,902,526 hrs EDS-208-M Models: 3,562,556 hrs
Standards	Telcordia (Bellcore), GB
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x EDS-208 Series switch
Documentation	1 x quick installation guide 1 x warranty card

# **Dimensions**

Unit: mm (inch)





# **Ordering Information**

Model Name	10/100BaseT(X) Ports RJ45 Connector	100BaseFX Ports Multi-Mode ST Connector	100BaseFX Ports Multi-Mode SC Connector	Housing Material	Operating Voltage	Operating Temp.
EDS-208	8	-	-	Plastic	12-48 VDC	-10 to 60°C
EDS-208-M-ST	7	1	-	Plastic	12-48 VDC	-10 to 60°C
EDS-208-M-SC	7	-	1	Plastic	12-48 VDC	-10 to 60°C

# Accessories (sold separately)

## **Power Supplies**

MDR-40-24	DIN-rail 24 VDC power supply with 40W/1.7A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature
MDR-60-24	DIN-rail 24 VDC power supply with 60W/2.5A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature
Rack-Mounting Kits	
RK-4U	19-inch rack-mounting kit

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