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: 7 EDS-208-M-ST: 7 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		OM1	50/125 µm	G.652
			800 MHz x km	
Typical Distance		4 km	5 km	40 km
Wavelength	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

		100BaseFX		
		Multi-Mode		Single-Mode
Fiber Cable Type		OM1	50/125 µm 800 MHz x km	G.652
	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 24[1] VAC
Operating Voltage	9.6 to 60 VDC 18 to 30 VAC
Input Current	EDS-208 Models: 12 to 48 VDC, 0.14 to 0.04 A or 24 VAC, 50-60 Hz, 0.13 A (max.) EDS-208-M-SC/EDS-208-M-ST Models: 12 to 48 VDC, 0.20 to 0.05 A or 24 VAC, 50-60 Hz, 0.21 A (max.)
Connector	1 removable 3-contact terminal block(s)
Overload Current Protection	Supported
Reverse Polarity Protection	Supported

Physical Characteristics

Housing	Plastic
IP Rating	IP30
Dimensions	EDS-208: 40.03 x 100 x 74 mm (1.58 x 3.94 x 2.91 in) EDS-208-M-SC: 40.03 x 100 x 82.13 mm (1.58 x 3.94 x 3.23 in) EDS-208-M-ST: 40.03 x 100 x 84.1 mm (1.58 x 3.94 x 3.31 in)
Weight	EDS-208: 159 g (0.35 lb) EDS-208-M-SC: 166 g (0.37 lb) EDS-208-M-ST: 166 g (0.37 lb)
Installation	DIN-rail mounting

1. 24 VAC only for models with hardware version 2.1.1 or later

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 EN 62368-1
EMC	EN 55032/35
EMI	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: 0.5 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: 10,541,554 hrs EDS-208-M Models: 7,499,231 hrs
Standards	Telcordia (Bellcore), GB

Warranty

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

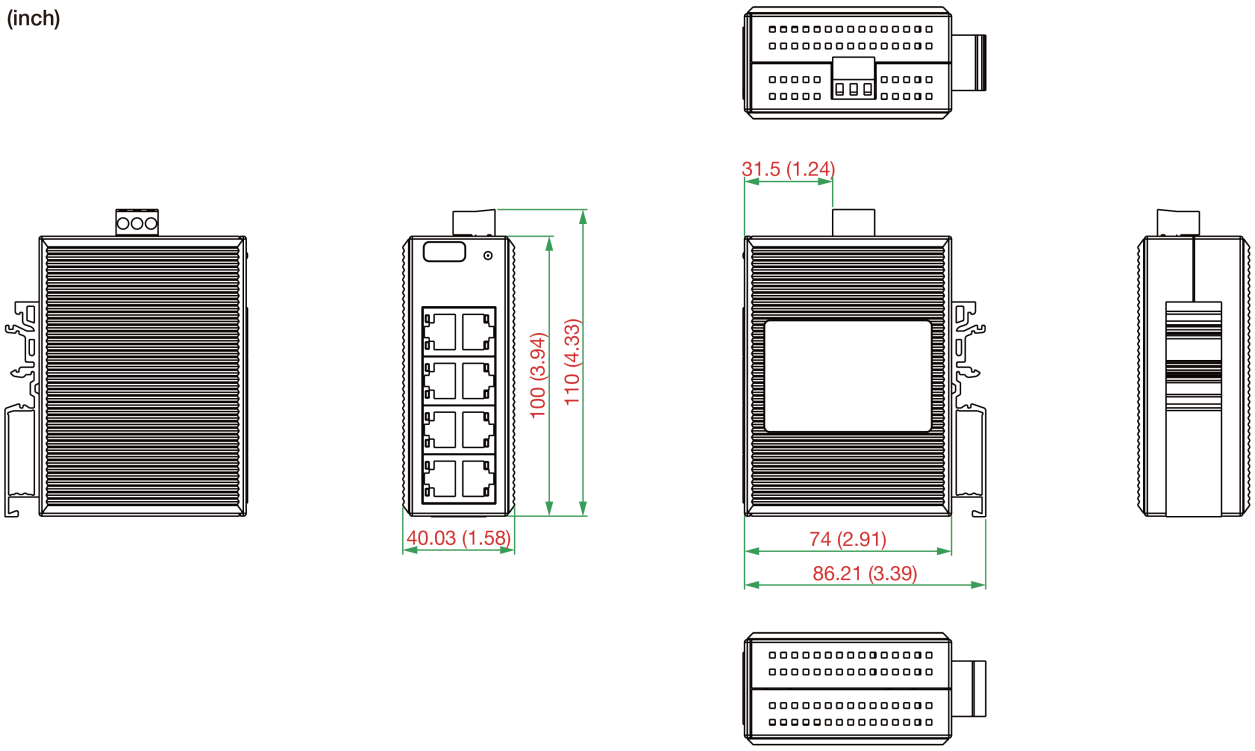
Package Contents

Device	1 x EDS-208 Series switch
Documentation	1 x quick installation guide 1 x warranty card

Dimensions

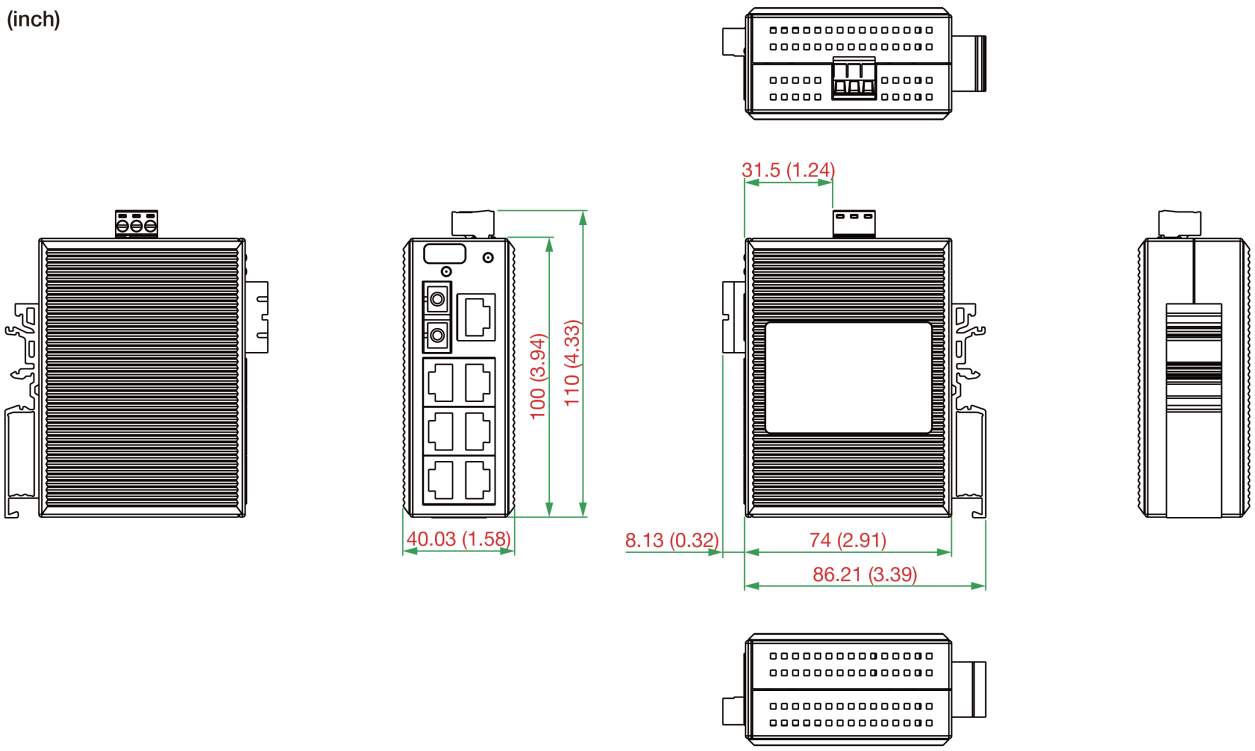
EDS-208 Models

Unit: mm (inch)



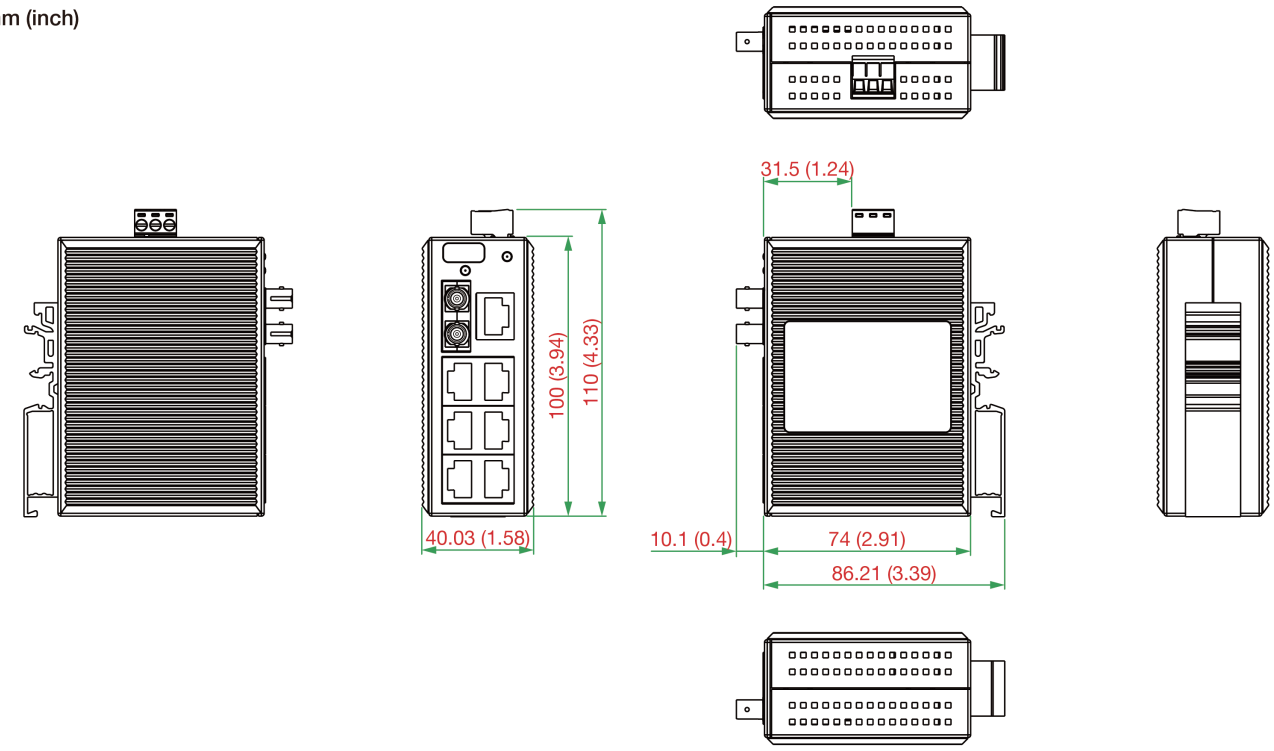
EDS-208-M-SC Models

Unit: mm (inch)



EDS-208-M-ST Models

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, 24 VAC	-10 to 60°C
EDS-208-M-ST	7	1	–	Plastic	12-48 VDC, 24 VAC	-10 to 60°C
EDS-208-M-SC	7	–	1	Plastic	12-48 VDC, 24 VAC	-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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