

EX42008 Series

Hardened Unmanaged 8-port 10/100BASE Ethernet Switch



Overview

EtherWAN's EX42008 Series is a hardened unmanaged Fast Ethernet switching platform, designed for easy deployment in harsh environments. The EX42008 Series supports 12 to 48VDC redundant power input, and also provides relay alarm while power failure or port link down occur.

The EX42008 is equipped with eight Fast Ethernet ports, or a combination of Fast Ethernet copper ports and one 100FX port for long distance connectivity. This versatile switch features 10/100Mbps transfer speeds, full/half-duplex auto-negotiation and auto MDI/MDIX operation allowing you to connect your network devices without hassles.

The EX42008 is feature-rich with full wire speed Fast Ethernet throughput, QoS (Quality of Service) and IEEE802.3az EEE (Energy Efficient Ethernet). The EX42008 Series is built with relay alarm to notify users when power fails or link down occurs. It also supports port link down alarm by enabling the DIP switch. The EX42008 Series is housed with DIN rail mountable metal compact case which is an ideal solution for applications in harsh environments.

EtherWAN – "When Connectivity is Crucial."

Spotlight

- **Hardened Grade**
 - Supports -40°C to 75°C (-40°F to 167°F) operating temperature
- **Fiber Connectivity**
 - Up to one 100BASE-FX port with SC, ST or WDM options
- **High Reliability**
 - Fanless design
 - No moving parts

Hardware Specifications

Technology

Standards

- IEEE802.3u 100BASE-TX/FX
- IEEE802.3x full-duplex flow control
- IEEE802.3az Energy Efficient Ethernet
- IEEE802.1p Quality of Service (QoS)

Forward and Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

Packet Buffer Memory

- 448K bits

Processing Type

- Store-and-Forward
- Auto Negotiation
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control
- Auto MDI/MDIX

Address Table Size

- 1K MAC addresses

Power

Input Voltage

- 12 to 48VDC (Terminal Block)

Power Consumption

- 2.47W@24VDC

Protection

- Reverse polarity protection

Mechanical

Casing

- Aluminum Case
- IP30

Dimensions

- 30mm (W) x 100mm (D) x 149mm (H)
(1.18" (W) x 4" (D) x 5.96" (H))

Weight

- 0.39Kg (0.841lbs)

Installation

- DIN-Rail (Top hat type 35mm) mounting

Interface

Ethernet Ports

- 10/100BASE-TX: 8 or 7 ports
- 100BASE-FX: 0 or 1 port

LED Indicators

- Per Unit: Power 1 (Green),
Power 2 (Green),
Fault (Red)
- Per Port: Link/Activity (Green)

Alarm Contact

- One relay output with current 1A @ 250VAC
- Supports normal close and normal open

Environment

Operating Temperature

- -40°C to 75°C (-40°F to 167°F)

Storage Temperature

- -40°C to 85°C (-40°F to 185°F)

Ambient Relative Humidity

- 5% to 95% (non-condensing)

Regulatory Approvals

ISO

- Manufactured in an ISO9001 facility

EMI

FCC Part 15B, Class A

VCCI Class A

EN61000-6-4

EN55022 Class A

EMS

EN61000-6-2

- EN61000-4-2 (ESD Standards)
- EN61000-4-3 (Radiated FRI Standards)
- EN61000-4-4 (Burst Standards)
- EN61000-4-5 (Surge Standards)
- EN61000-4-6 (Induced RFI Standards)
- EN61000-4-8 (Magnetic Field Standards)

Environmental Test Compliance

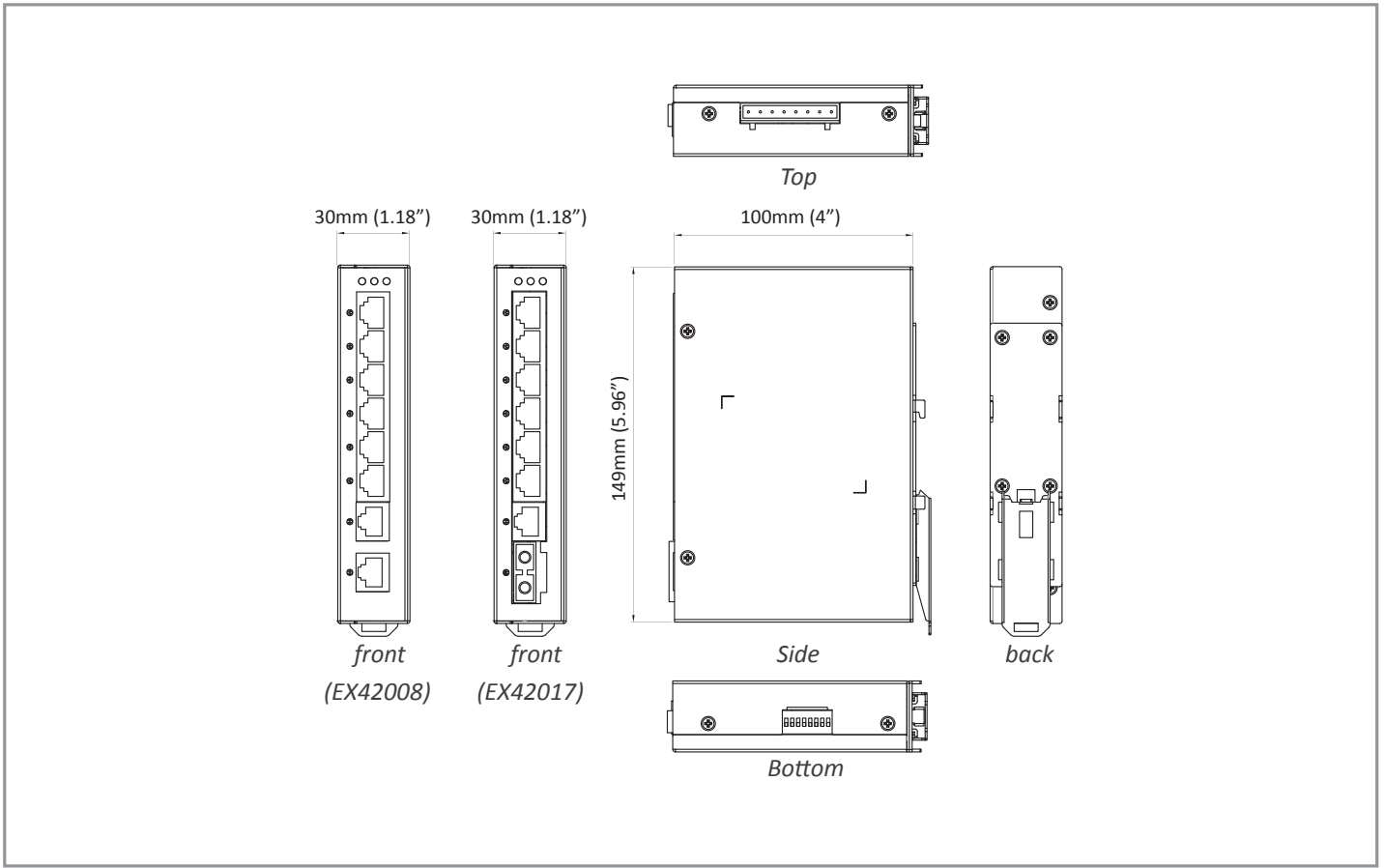
IEC60068-2-6 Fc (Vibration)

IEC60068-2-27 Ea (Shock)

FED STD 101C Method 5007.1 (Free fall w/ package)

- Tested with Cross Weight and Drop High standard table

Dimensions



Ordering Information

Model

EX42008	Hardened Unmanaged 8-port 10/100BASE-TX Ethernet Switch
EX42017-XY	Hardened Unmanaged 7-port 10/100BASE-TX + 1-port 100BASE-FX Ethernet Switch

* DIN-Rail mounting kit included

100FX Fiber Options (XY)

1A	Multi Mode (SC) -2Km
1B	Multi Mode (ST) -2Km
2A	Single Mode (SC) -20Km
2D	Single Mode (ST) -20Km
2E	Single Mode (SC) WDM-TX:1310nm/RX:1550nm -20Km
2G	Single Mode (SC) WDM-TX:1550nm/RX:1310nm -20Km

*More 100FX Fiber options also available upon request.

Optional Accessories

DR-30-24	30W/1.5A DIN-Rail 24VDC Industrial Power Supply (for Terminal Block)
DR-60-24	60W/2.5A DIN-Rail 24VDC Industrial Power Supply (for Terminal Block)
DR-75-24	75W/3.2A DIN-Rail 24VDC Industrial Power Supply (for Terminal Block)