

# 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

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### 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

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### Input Voltage

- 12 to 48VDC (Terminal Block)

### Power Consumption

- 2.47W@24VDC

### Protection

- Reverse polarity protection

## Mechanical

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### 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

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### 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

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### 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

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### ISO

- Manufactured in an ISO9001 facility

### Safety

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### UL 62368

### EMI

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### FCC Part 15B, Class A

### VCCI Class A

### EN 61000-6-4

### EN 61000-3-2

### EN 61000-3-3

### EN 55022 Class A

### EMS

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### EN 61000-6-2

- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated FRI Standards)
- EN 61000-4-4 (Burst Standards)
- EN 61000-4-5 (Surge Standards)
- EN 61000-4-6 (Induced RFI Standards)
- EN 61000-4-8 (Magnetic Field Standards)

### Environmental Test Compliance

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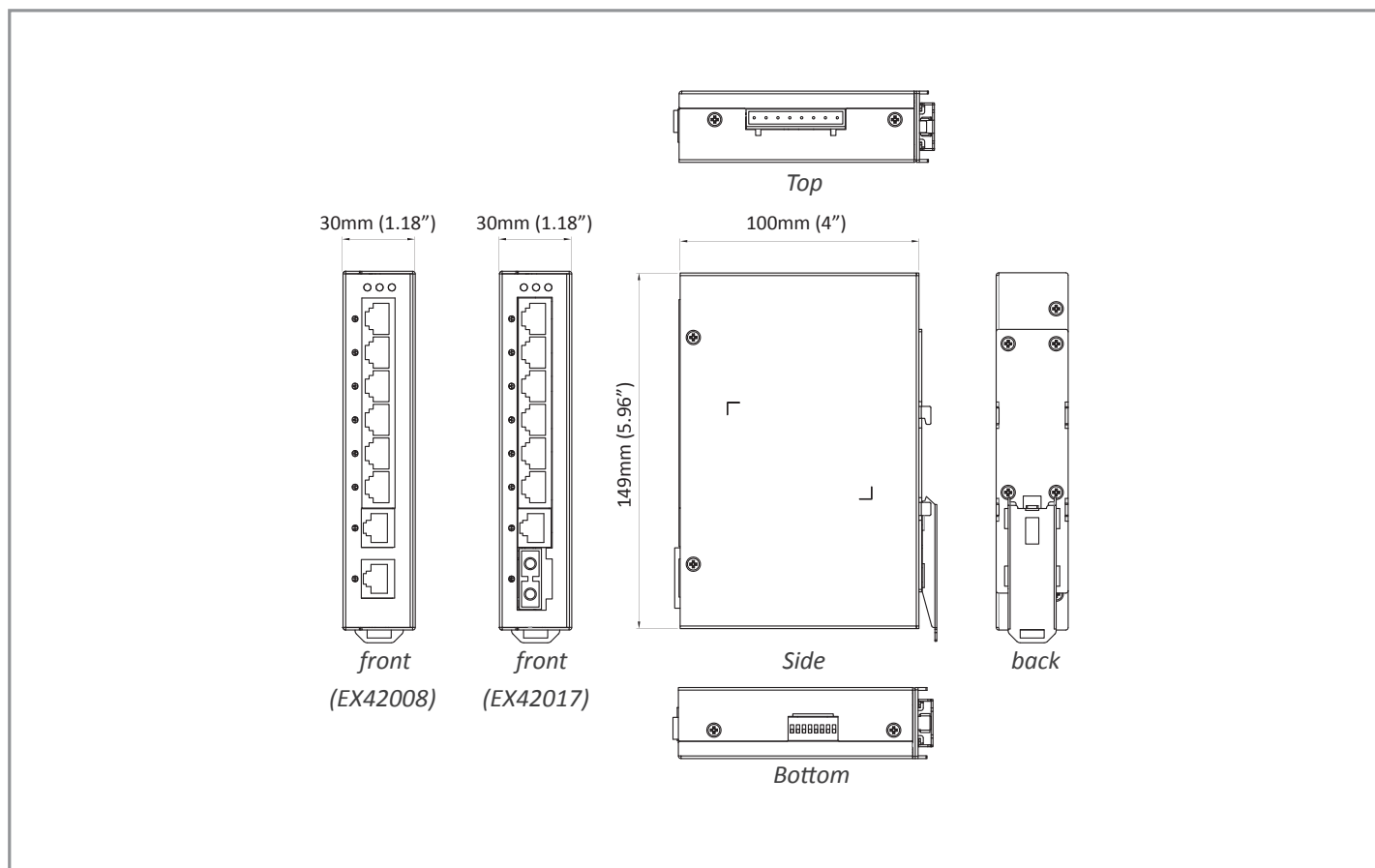
### IEC 60068-2-6 Fc (Vibration)

### IEC 60068-2-27 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

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

\* DIN-Rail mounting kit included

### 100FX Fiber Options (XY)

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

\*More 100FX Fiber options also available upon request.

### Optional Accessories

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