

## EX42008 Series

Hardened Unmanaged 7 to 8-port 10/100BASE-TX and 1-port 100BASE-FX 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 to 75°C (-40 to 167°F) operating temperature

### + Fiber Connectivity

Up to one 100BASE-FX port with SC, ST, WDM options

### + High Reliability

Fanless design  
No moving parts

# Specifications

## + Technology

### Standards

IEEE 802.3u 100BASE-TX/FX  
IEEE 802.3x full-duplex flow control  
IEEE 802.3az Energy Efficient Ethernet  
IEEE 802.1p 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

## + Interface

### Ethernet Ports

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

### LED Indicators

Per Unit: Power1 (Green), Power2 (Green), Fault (Red)  
Per Port: Link & Activity (Green)

### DIP Switches

Enable/Disable Port fault alarm

### Alarm Contact

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

## + Environment

### Operating Temperature

-40 to 75°C (-40 to 167°F)

### Storage Temperature

-40 to 85°C (-40 to 185°F)

### Ambient Relative Humidity

5% to 95% (non-condensing)

## + Power

### Input

12-48VDC (Terminal Block)

### Power Consumption

2.47W@24VDC

### Protection

Reverse Polarity Protection

## + Mechanical

### Casing

Aluminum Case  
IP30

### Dimensions

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

### Weight

0.39Kg (0.841lbs)

### Installation

DIN-Rail (Top hat type 35mm) mounting

## + Regulatory Approvals

### ISO

Manufactured in an ISO 9001 facility

### Safety

UL 60950  
UL 62368

### EMI

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

EN 61000-6-2

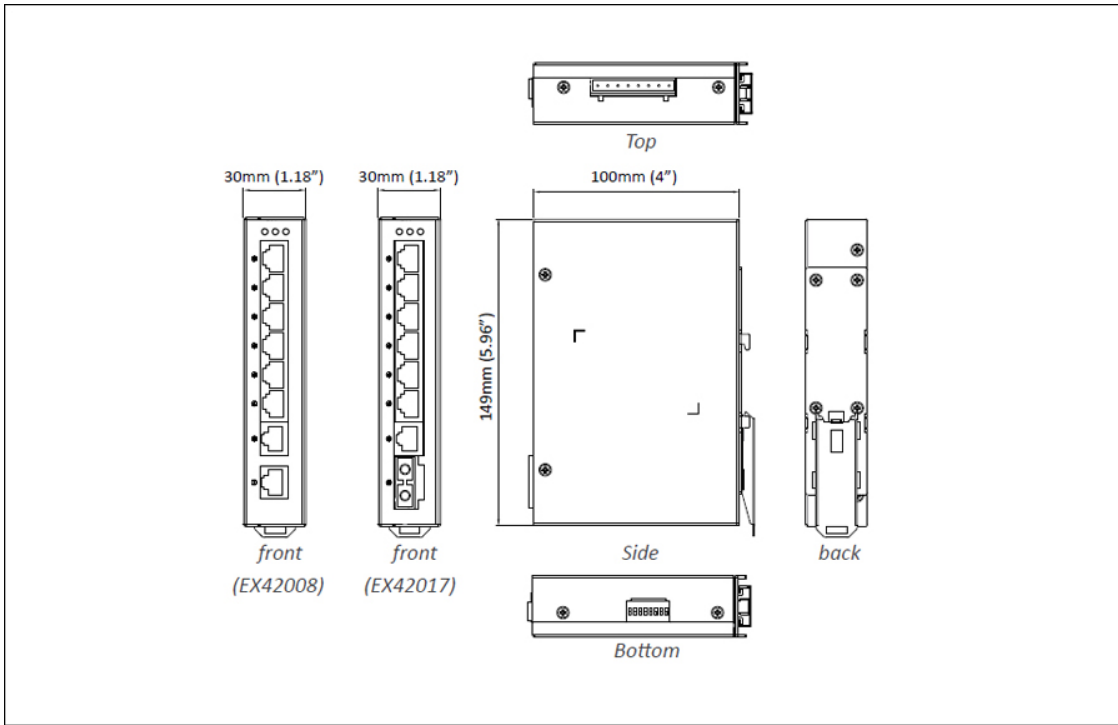
- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated FRI Standards)
- EN 61000-4-4 (Burst Standards)
- EN 61000-4-5 (Surge Standards)
- EN 61000-4-6 (Induced RFI Standards)
- EN 61000-4-8 (Magnetic Field Standards)

### Environmental Test Compliances

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 Info

### + Model

<b>EX42008</b>	8-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
<b>EX42017-XY</b>	7-port 10/100BASE-TX +1-port 100BASE-FX Hardened Unmanaged 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>HDR-30-24</b>	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
<b>HDR-60-24</b>	60W/2.5A DIN-Rail 24VDC Industrial Power Supply
<b>EDR-75-24</b>	75W/3.2A DIN-Rail 24VDC Industrial Power Supply

