

## EX42300 Series

Hardened Unmanaged 4-port 10/100BASE (4 x PoE) +1-port 10/100/1000BASE-T +1-port 1000BASE-X Gigabit Ethernet Switch



## Overview

EtherWAN's EX42300 Series is a compact Hardened Unmanaged PoE switching platform, designed for easy deployment in harsh environments.

The EX42300 Series is equipped six Ethernet ports, with a combination of Fast Ethernet copper ports with 4-port PoE (IEEE 802.3at), one Gigabit copper port, and one Gigabit fiber port for long distance connectivity. The EX42300 is feature rich with 10K Jumbo Frame support on the Gigabit ports, full wire speed throughput, QoS support and eco-friendly IEEE 802.3az EEE (Energy Efficient Ethernet) compliant, making the EX42300 Series a powerful yet energy efficient network switch.

EtherWAN — "When Connectivity is Crucial."

## Spotlight

### Power over Ethernet

- » Port 1-4 are PoE ports that provide power up to 30W

### Energy Efficient Ethernet (EEE)

- » Supports IEEE 802.3az standard

### Fiber Connectivity

- » Up to one 1000BASE-SX port with SC, ST and SFP options

# Specifications

## Technology

### Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX/100BASE-FX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-SX/1000BASE-LX
- IEEE 802.3x Full duplex flow control
- IEEE 802.3az Energy Efficient Ethernet
- IEEE 802.1p Quality of Service (QoS)
- IEEE 802.3af/at Power over Ethernet (PoE)

### Forward and Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps
- 1,488,100pps for 1000Mbps

### Packet Buffer Memory

- 1M bits

### Processing Type

- Store-and-Forward
- Auto Negotiation
- Half-duplex back-pressure and IEEE 802.3x full-duplex flow control
- Auto MDI/MDIX

### Jumbo Frame

- 10K bytes

### Address Table Size

- 8192 MAC addresses
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## Power

### Input

- 18-57VDC

### Power Consumption

- Device: Max. 7W (Without PoE)
- PoE Power Budget: 120W

### PoE Technology

- Alternative A  
Pins 1/2(+), 3/6(-)

### Protection

- Reverse polarity protection
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## Mechanical

### Casing

- Metal Case
- IP30

### Dimensions

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

### Weight

- 0.34Kg (0.75lb.)

### Installation

- DIN-Rail
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## Interface

### Ethernet Ports

- 10/100BASE-TX: 4 ports
- 10/100/1000BASE-T: 1 port
- 1000BASE-X: 0 or 1 port

### LED indicators

- Per Unit: Power 1 (Green), Power 2 (Green), Alarm (Red)
- Per Port: 10/100M (Green), 1000M (Amber)
- Per PoE Port: PoE Status (Amber)

### DIP Switches

- Enable/Disable Port fault alarm
- Enable/Disable Broadcast Storm Protection

- Enable/Disable Jumbo Frame

### **Alarm Contact**

- One relay output with current 1A/250VAC
  - Supports normal open
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## Environment

### **Operating Temperature**

- -40 to 75°C (-40 to 167°F);  
Tested @ -40 to 85°C (-40 to 185°F)

### **Storage Temperature**

- -40 to 85°C (-40 to 185°F)

### **Ambient Relative Humidity**

- 5% to 95% (non-condensing)
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## Regulatory Approvals

### **ISO**

- Manufactured in an ISO 9001 facility

### **Safety**

UL 60950

UL 61010 (EX42305/EX42315-V only)

### **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 RFI 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

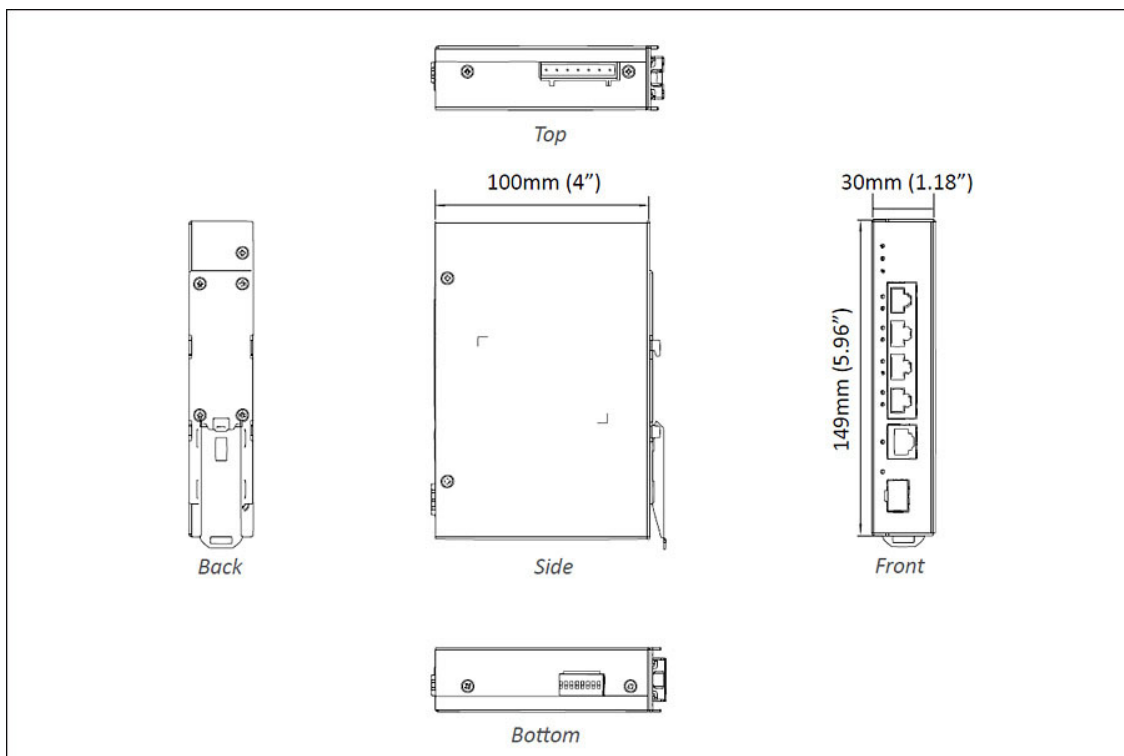
IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

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

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## Dimensions



## Ordering Info

### Model

EX42305	4-port 10/100BASE-TX (4 x PoE) +1-port 10/100/1000BASE-T Gigabit Hardened Unmanaged Ethernet Switch
EX42315-V	4-port 10/100BASE-TX (4 x PoE) +1-port 10/100/1000BASE-T +1-port 1000BASE-X Gigabit Hardened Unmanaged Ethernet Switch

\* DIN-Rail mounting kit included.

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### Optional Accessories

NDR-240-48	240W/5A DIN-Rail 48VDC Industrial Power Supply
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