

# EX42300 Series

Hardened Unmanaged 4 Port PoE Switch with additional Gigabit Copper and Fiber Ports

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## 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

### + Fiber Connectivity

Up to one 1000BASE-SX port with options

### + Energy Efficient Ethernet (EEE)

Supports IEEE 802.3az standard

# 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

## + 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

## + 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)

## + 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

## + 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

## + 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)

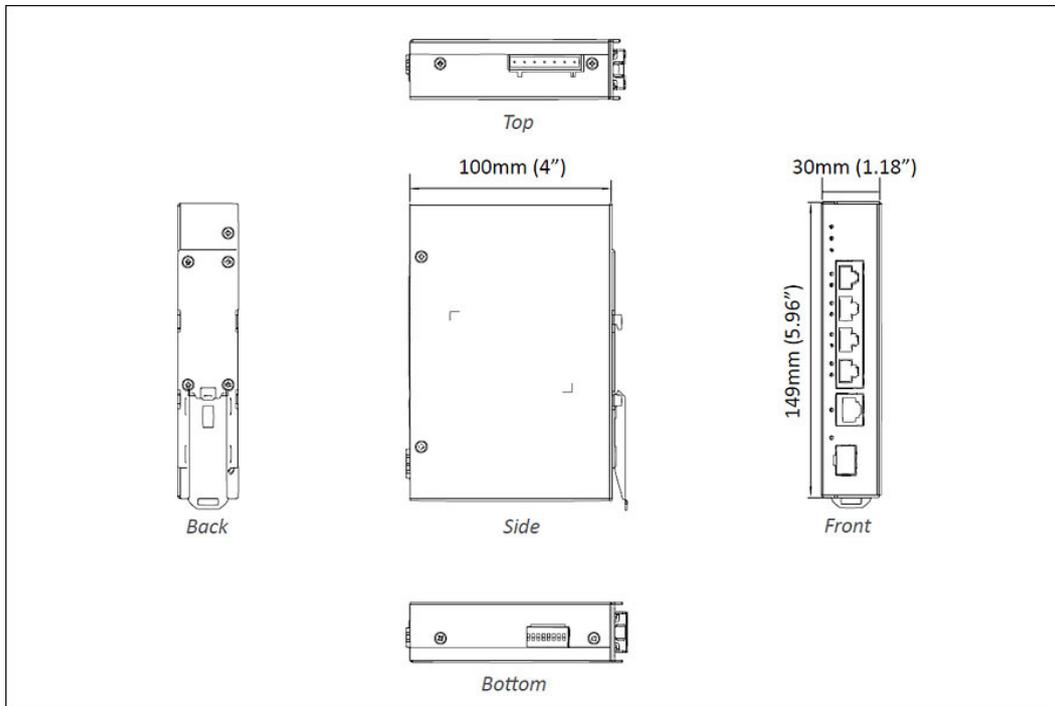
### Environmental Test Compliances

IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

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

## 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 SFP Gigabit Hardened Unmanaged Ethernet Switch

\* DIN-Rail mounting kit included.

### + Optional Accessories

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