

# EX42300 Series

Hardened Unmanaged 5/6 port Ethernet Switch  
4-port 10/100BASE (4 x PoE) + 1-port 10/100/1000BASE-T  
Optional 1-port 1000BASE-X Gigabit



## 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 6 Ethernet ports, with a combination of Fast Ethernet copper ports with 4-port PoE (IEEE802.3at), 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 IEEE802.3az 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 IEEE802.3az standard

### • Fiber Connectivity

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

# Hardware Specifications

## Technology

---

### Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3ab 1000BASE-T
- IEEE802.3z 1000BASE-SX/1000BASE-LX
- IEEE802.3x Full duplex flow control
- IEEE802.3az Energy Efficient Ethernet
- IEEE802.1p Quality of Service(QoS)
- IEEE802.3af/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 IEEE802.3x full-duplex flow control
- Auto MDI/MDIX

### Jumbo Frame

- 10K bytes

### Address Table Size

- 8192 MAC addresses

## Power

---

### Input Voltage

- 24/48VDC

### Power Consumption

- Device: Max. 7W (without PoE)
- PoE Power budget: 120W

### Protection

- Reverse polarity protection

## Mechanical

---

### Casing

- Metal case
- IP30

### Dimensions

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

### Weight

- 0.34Kg (0.75lb.)

### Installation

- DIN-Rail

## Interface

---

### Ethernet Ports

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

### 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)

## Environment

---

### Operating Temperature

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

### Safety

---

#### UL60950

### EMI

---

#### FCC Part 15B, Class A

#### VCCI Class A

#### EN61000-6-4

### EMS

---

#### EN61000-6-2

- EN61000-4-2 (ESD Standards)
- EN61000-4-3 (Radiated RFI 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 Compliances

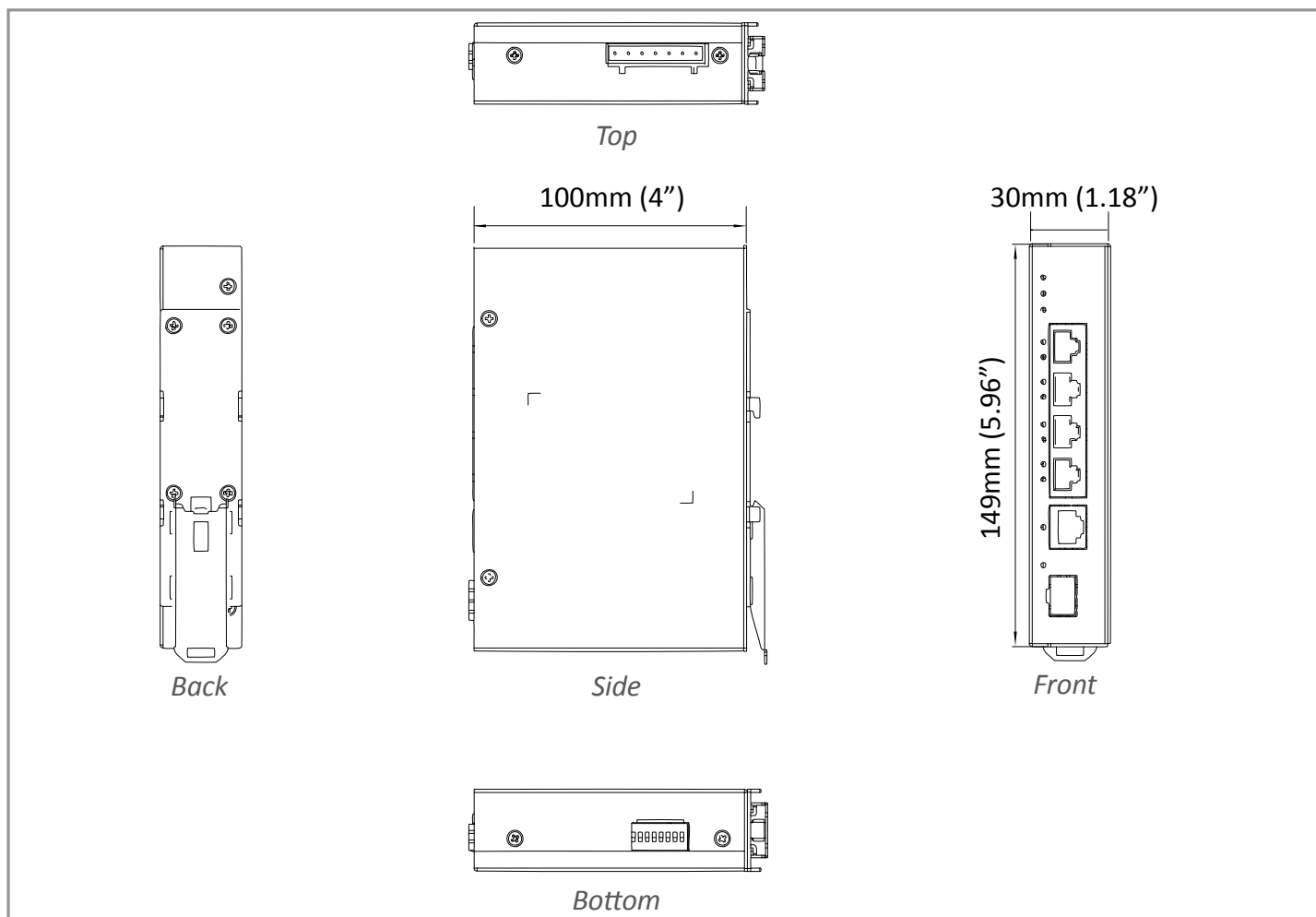
---

#### IEC60068-2-6 Fc (Vibration)

#### IEC60068-2-27 Ea (Shock)

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

## Dimensions



## Ordering Information

### Model

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

\* DIN-Rail mounting kit included

## Ordering Information - continued

### 100FX Fiber Options (X)

<b>3</b>	1000BASE-SX(SC)-550m
<b>5</b>	1000BASE-SX(ST)-550m
<b>A</b>	1000BASE-LX(SC)-10km
<b>R</b>	1000BASE-BX(SC) WDM-TX:1310nm/RX:1550nm-20Km
<b>S</b>	1000BASE-BX(SC) WDM-TX:1550nm/RX:1310nm-20Km
<b>V</b>	1000BASE SFP

### Optional Accessories

<b>SDR-240-48</b>	240W/5A DIN-Rail 48VDC Industrial Power Supply (for terminal block)
-------------------	---