

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

- 18 to 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

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)

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)

Regulatory Approvals

ISO

- Manufactured in an ISO 9001 facility

Safety

UL 60950

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)

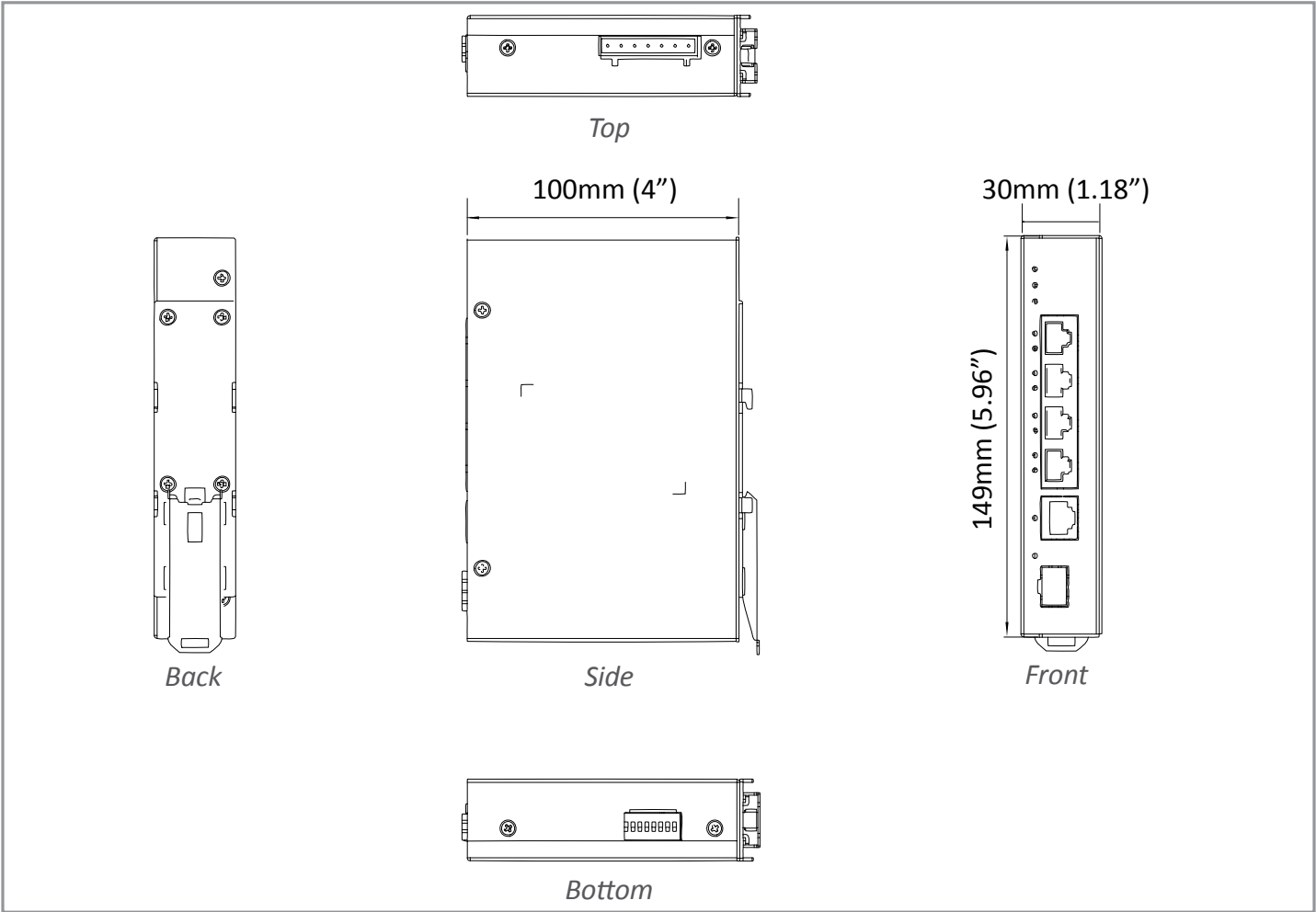
Environmental Test Compliances

IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

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

Dimensions



Ordering Information

Model	
EX42305	Hardened Unmanaged 4-port 10/100BASE-TX (4 x PoE) + 1-port 10/100/1000BASE-T Gigabit Ethernet Switch
EX42315-X	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)	
3	1000BASE-SX (SC)-550m
5	1000BASE-SX (ST)-550m
A	1000BASE-LX (SC)-10km
R	1000BASE-BX (SC) WDM-TX:1310nm/RX:1550nm-20Km
S	1000BASE-BX (SC) WDM-TX:1550nm/RX:1310nm-20Km
V	1000BASE SFP

Optional Accessories	
SDR-240-48	240W/5A DIN-Rail 48VDC Industrial Power Supply (for terminal block)