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

This product is discontinued as of 31st Dec., 2025. click here for alternative product.

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 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

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)

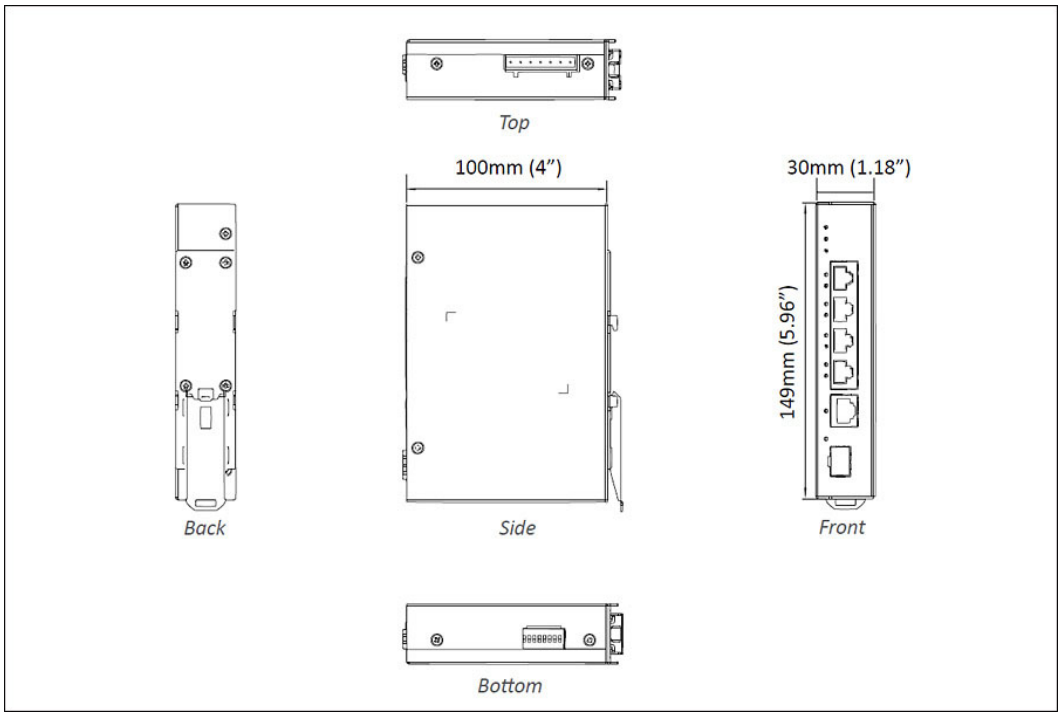
Environmental Test Compliances

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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EtherWAN is constantly developing and improving products. Specifications are subject to change without notice and without incurring any obligation.