EX42300 Series

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

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)
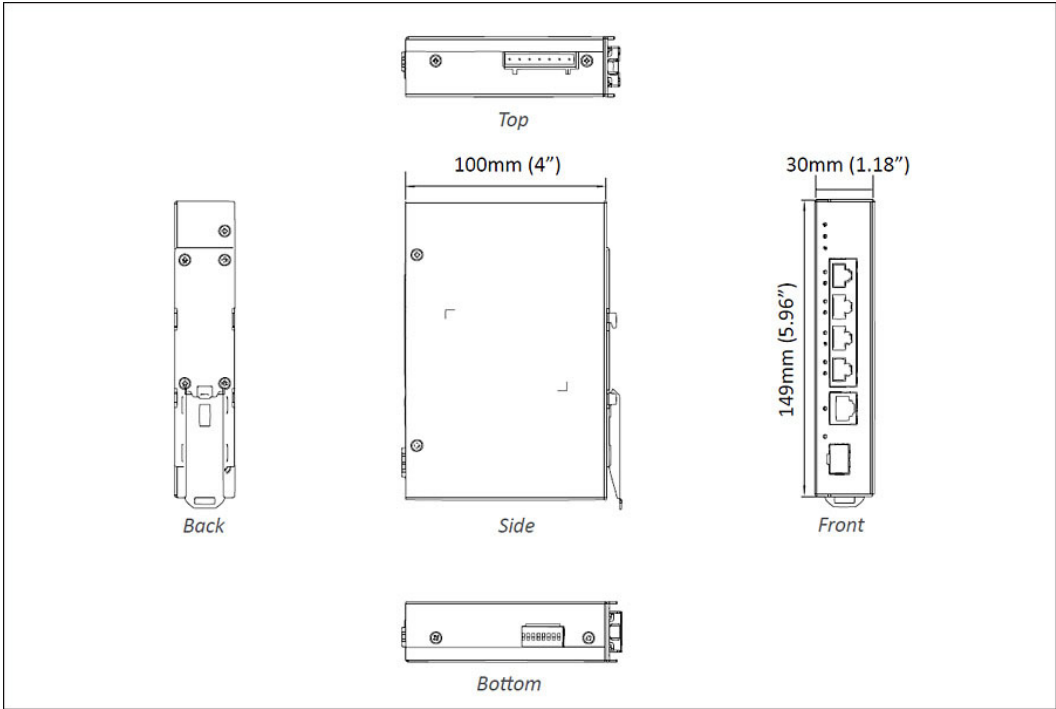-EN 61000-4-8 (Magnetic Field Standards)

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