

EX42200 Series

Hardened Unmanaged 5-port 10/100BASE (4 xPoE) Ethernet Switch



Overview

EtherWAN's EX42200 Series provides a hardened 5-port switching platform supporting IEEE802.3at Power over Ethernet, high performance switching for mission-critical and harsh environments where sustained connectivity is crucial.

The EX42200 Series is equipped with 4 10/100BASE-TX PoE ports, in combination with one 100FX Fiber options.

The IEEE802.3at PoE ports provide up to 30W/port with a total power budget of 120W, making the switch truly versatile for connecting with PoE Powered Devices (PD) with different bandwidth and power consumption requirements such as; outdoor PTZ dome cameras, wireless access points, and way-side communication devices.

EtherWAN – "When Connectivity is Crucial."

Spotlight

• Hardened Grade

- Supports -40°C to 75°C (-40°F to 167°F) operating temperature

• PoE Connectivity

- Port 1 to 4 supports IEEE802.3at Power over Ethernet

• Fiber Connectivity

- Up to one 100BASE-FX ports with SC and ST options

Hardware Specifications

Technology

Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/FX
- IEEE802.3x Full duplex flow control
- IEEE803.2af/at Power over Ethernet (PoE)

Forward and Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

Packet Buffer Memory

- 448K bits

Processing Type

- Store-and-Forward
- Auto Negotiation
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control
- Auto MDI/MDIX

Address Table Size

- 2048 MAC addresses

Power

Input Voltage

- Terminal block: 18 to 57VDC

Power Consumption

- Device: Max. 14W (without PoE)
- PoE power budget: 120W Max., depending on power input

Protection

- Reverse polarity protection
- Overload current protection

Mechanical

Casing

- Aluminum case
- IP30

Dimensions

- 61mm (W) x 78mm (D) x 118mm (H)
2.44" (W) x 3.12" (D) x 4.72" (H)

Weight

- 0.6Kg (3.3lbs.)

Installation

- DIN-Rail (Top hat type 35mm)

Interface

Ethernet Ports

- 10/100BASE-TX: 5 or 4 ports
- 100BASE-FX: 0 or 1 port

LED Indicators

- Per Unit: Power 1,
Power 2, (Green),
Alarm (Red)
- Per Port: Link/Activity (Green),
Speed (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

EMI

FCC Part 15B, Class A

VCCI, Class A

EN61000-6-4

EN55022 Class A

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)

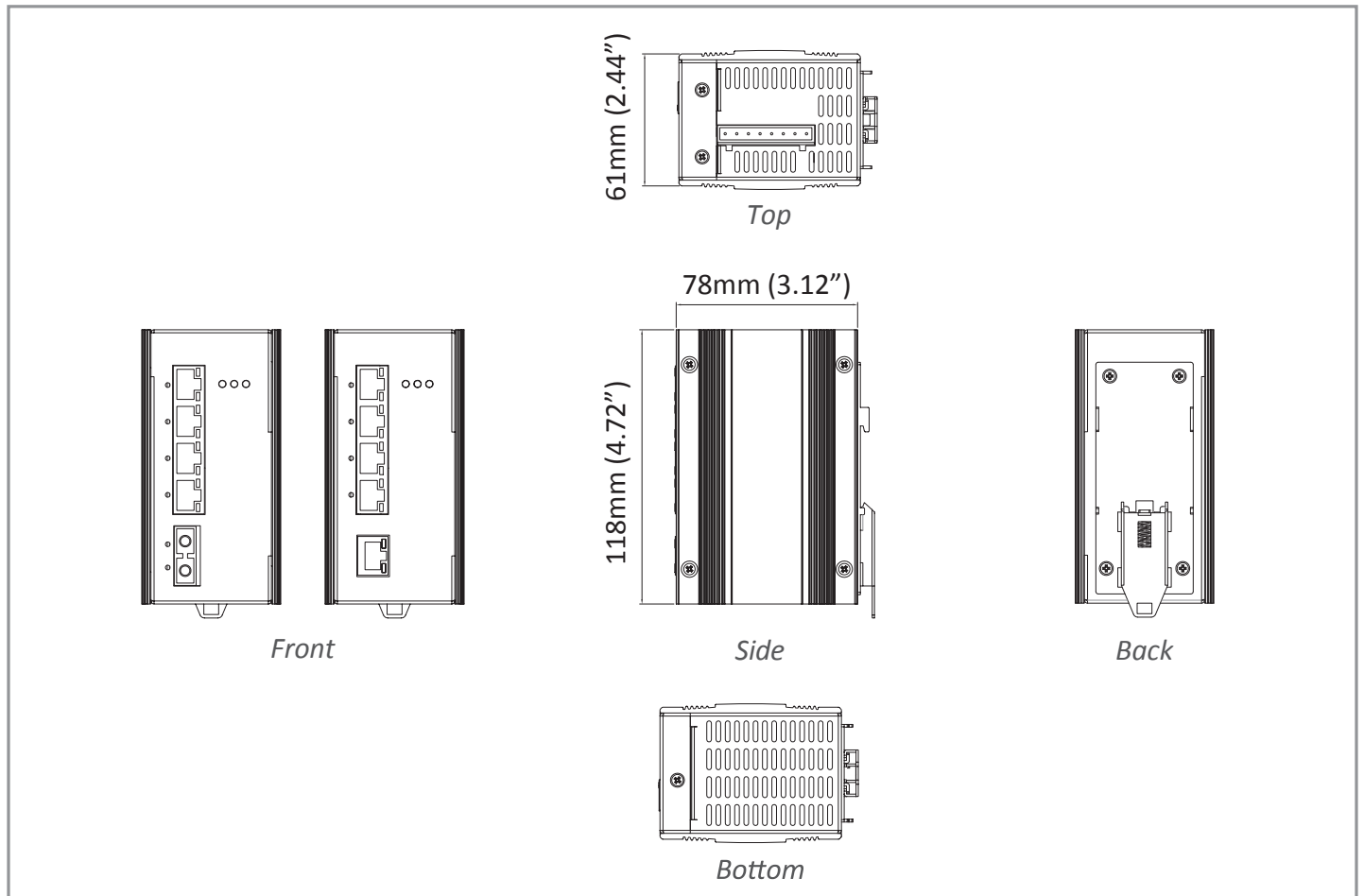
Environmental Test Compliances

IEC60068-2-6 Fc (Vibration)

IEC60068-2-27 Ea (Shock)

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

Dimensions



Ordering Information

Model

EX42205-0T	Hardened Unmanaged 5-port 10/100BASE-TX (4 x PoE) Fast Ethernet Switch
EX42214-XT	Hardened Unmanaged 4-port 10/100BASE-TX (4 x PoE) + 1 x 100BASE-FX Fast Ethernet Switch

* DIN-Rail mounting kit included

Ordering Information - continued

100FX Fiber Options (X)

1	Multi Mode (SC) - 2Km
2	Multi Mode (ST) - 2Km
6	Multi Mode (SC) WDM-TX:1310nm/RX:1550nm - 2Km
7	Multi Mode (SC) WDM-TX:1550nm/RX:1310nm - 2Km
8	Multi Mode (SC) WDM-TX:1310nm/RX:1550nm - 5Km
9	Multi Mode (SC) WDM-TX:1550nm/RX:1310nm - 5Km
A	Single Mode (SC) - 20Km
B	Single Mode (SC) - 40Km
H	Single Mode (ST) - 20Km
I	100BASE-FX Single Mode (ST) - 40Km
P	Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 20Km
Q	Single Mode (SC) WDM-TX:1550nm/RX:1310nm - 20Km
R	Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 40Km
S	Single Mode (SC) WDM-TX:1550nm/RX:1310nm - 40Km

Optional Accessories

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