

# EX49000A Series

Hardened Unmanaged 16-port 10/100BASE PoE and 2-port Gigabit Ethernet Switch



## Overview

EtherWAN's EX49000A Series provides a hardened 18-port switching platform supporting IEEE802.3at Power over Ethernet, high performance switching with robust features required for mission-critical and harsh environments where sustained connectivity is crucial.

The EX49000A Series is equipped with 16 10/100BASE-TX PoE ports, in combination with two Gigabit SX/LX/BX/WDM Fiber or SFP options.

The IEEE802.3at PoE ports provide up to 30W/port with a total power budget of 480W, 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.

With the hardened specifications, the EX49000A Series is designed to operate at -40°C to 75°C in harsh environments, where high ESD, shock, and vibration may be present.

## Spotlight

### • Hardened Grade

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

### • PoE Connectivity

- Port 1 to 16 supports IEEE802.3at Power over Ethernet

### • Fiber Connectivity

- Up to two 1000BASE-SX ports with SC, ST and SFP options

# Hardware Specifications

## Technology

### Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3x full duplex and flow control
- IEEE802.3z 1000BASE-SX/LX
- IEEE802.3ab 1000BASE-T
- 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

- 2.25M 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

- 4096 MAC addresses

## Power

### Input

- 47 - 57VDC

### Power Consumption

- Device: Max. 15W (without PoE)
- PoE power budget (depends on power input): 480W Max.

### PoE Power Output

- IEEE 802.3at: up to 30W/port, 50 - 57VDC, 600mA Max.

### Protection

- Reverse polarity protection

## Mechanical

### Casing

- Metal case

### Dimensions

- 442mm (W) x 205mm (D) x 44.2mm (H)  
(17.40" (W) x 8.07" (D) x 1.73" (H))

### Weight

- 3Kg (6.61lbs.)

### Installation

- Rack mounting

## Interface

### Ethernet Ports

- 10/100 BASE: 16 ports
- Gigabit: 2 ports

### LED Indicators

- Per Unit: Power 1 (Green)  
Power 2 (Green)  
Fault (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)

### 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

#### EN61000-6-4

#### EN55022 Class A

### EMS

#### EN61000-6-2

- EN61000-4-2 (ESD Standards)
- EN61000-4-3 (Radiated FRI 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 Compliance

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

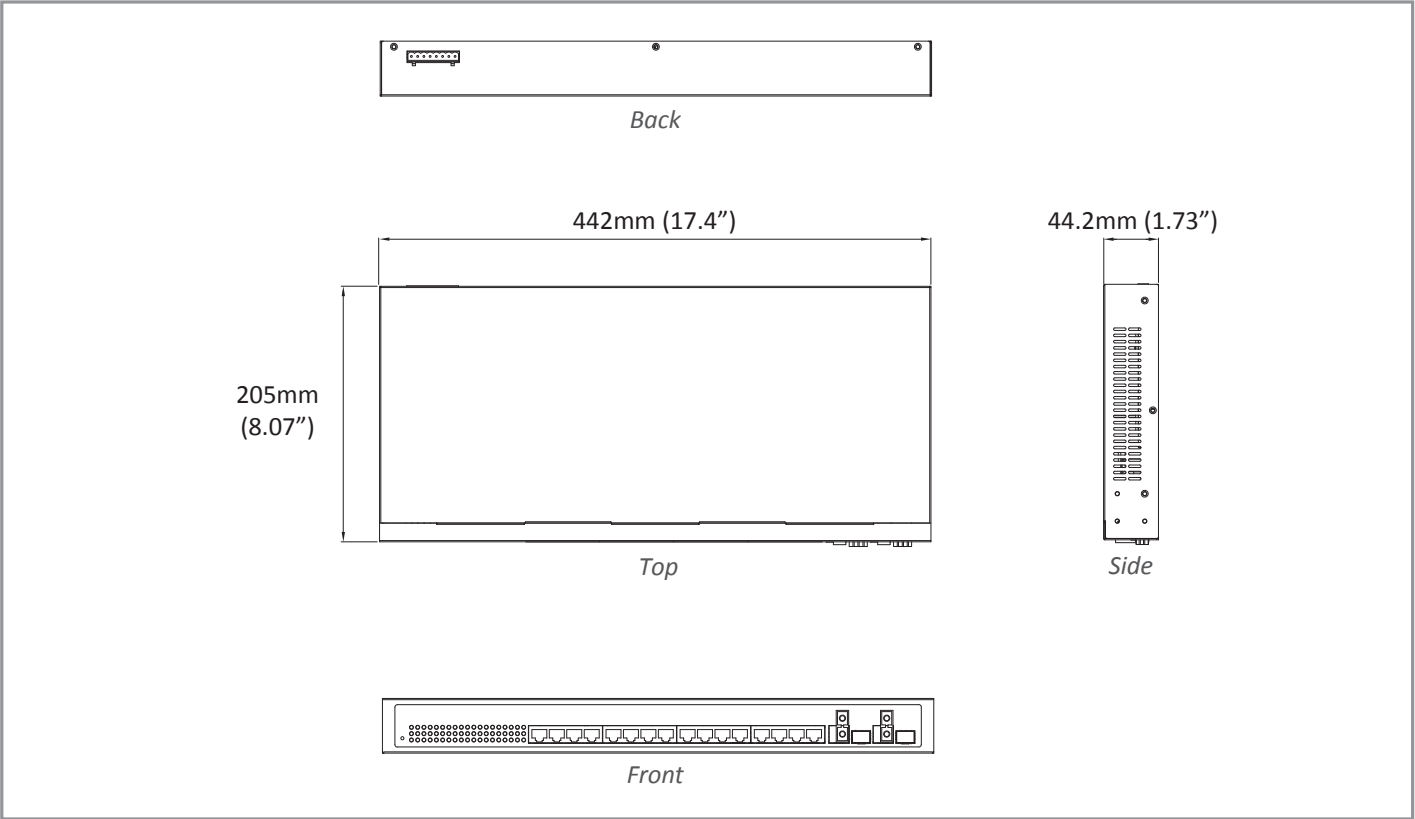
#### IEC60068-2-27 Ea (Shock)

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

## Industrial Compliance

#### NEMA TS2

# Dimensions



# Ordering Information

## Model

EX49162A-0XT	Hardened Unmanaged 16-port 10/100BASE-TX + 2-port Gigabit PoE Ethernet Switch
EX49122A-0XT	Hardened Unmanaged 12-port 10/100BASE-TX + 2-port Gigabit PoE Ethernet Switch
EX49082A-0XT	Hardened Unmanaged 8-port 10/100BASE-TX + 2-port Gigabit PoE Ethernet Switch

\* Rack mounting kit included

## Gigabit Port Options (X)

1	10/100/1000BASE-TX
3	1000BASE-SX(SC) - 550m
4	1000BASE-SX (SC) - 2Km
5	1000BASE-SX (ST) - 550m
A	1000BASE-LX (SC) - 10Km
B	1000BASE-LX (SC) - 20Km
R	1000BASE-BX (SC) WDM-TX:1310nm/RX:1550nm - 20Km
S	1000BASE-BX (SC) WDM-TX:1550nm/RX: 1310nm - 20Km
V	1000BASE SFP Combo with 10/100/1000BASE-T

\*More 100FX Fiber options also available upon request.

## Optional Accessories

SDR-480-48	480W/10A DIN-Rail 48VDC Industrial Power Supply (Optional)
------------	--