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
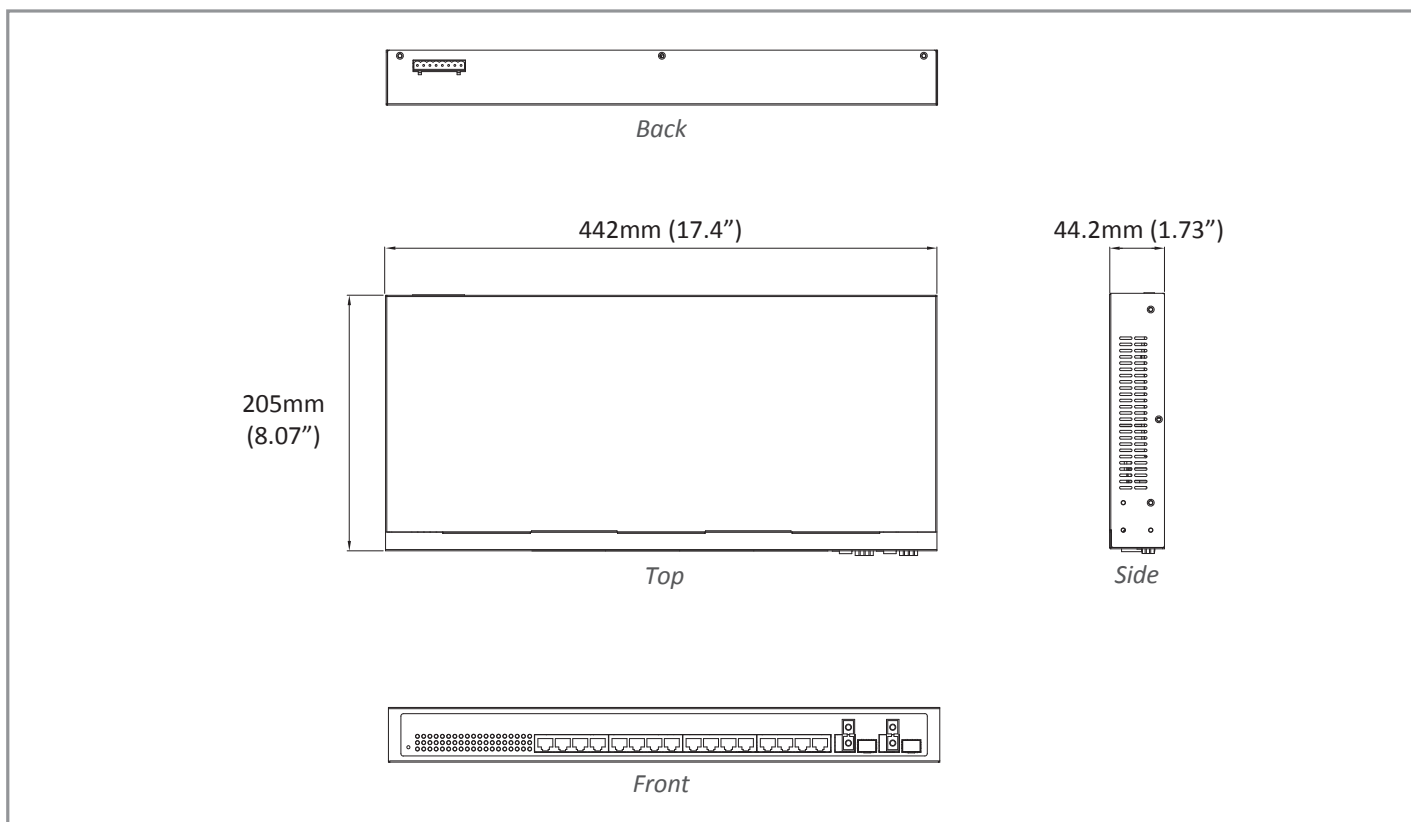
IEC60068-2-6 Fc (Vibration)

IEC60068-2-27 Ea (Shock)

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

Industrial Compliance

NEMA TS2

Dimensions

Back

442mm (17.4")

44.2mm (1.73")

205mm (8.07")

Top

Side

Front

Ordering Information

Model

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

* Rack mounting kit included

Gigabit Port Options (X)

1	10/100/1000BASE-T
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 1000FX Fiber options also available upon request.

Optional Accessories

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