

# EX46900A Series

Hardened unmanaged 8-port 10/100/1000BASE (8 x PoE) with 2-port 1000BASE-X (SX/LX/SFP) Ethernet Switch



## Overview

EtherWAN's EX46900A Series is a compact Hardened Unmanaged PoE Gigabit switching platform, designed for easy deployment in harsh environments.

The EX46900A Series is equipped with ten Gigabit Ethernet ports, with a combination of Gigabit copper ports with 8-port PoE (IEEE802.3at) and two Gigabit fiber ports for long distance connectivity. Although unmanaged, the EX46900A is feature rich with 9.6K Jumbo Frame support, full wire speed Gigabit throughput and eco-friendly IEEE802.3az EEE (Energy Efficient Ethernet) compliance, making the EX46900A Series a powerful yet energy efficient network switch.

EtherWAN – "When Connectivity is Crucial."

## Spotlight

### • Jumbo Frame Support

- Up to 9.6K bytes

### • Power over Ethernet

- Port 1-8 are PoE ports that provide power up to 30W

### • Fiber Connectivity

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

### • Energy Efficient Ethernet (EEE)

- Supports IEEE802.3az standards

### • High Reliability

- Fanless Design
- No moving part

# Hardware Specifications

## Technology

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### Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3ab 1000BASE-T
- IEEE802.3z 1000BASE-SX/1000BASE-LX
- IEEE802.1x, Full duplex flow control
- IEEE802.1az Energy Efficient Ethernet
- 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

- 4MB

### Processing Type

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

### Jumbo Frame

- 9.6K bytes

### Address Table Size

- 8K MAC addresses

## Power

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### Input Voltage

- 18 - 57VDC

### Power Consumption

- Device: 11.2W @ 24VDC
- PoE Power Budget: 120W

### PoE Technology

- Alternative A
- Pins 1/2(+), 3/6(-)

### Protection

- Reverse polarity protection

## Mechanical

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### Casing

- Metal case
- IP30

### Dimensions

- 66.8mm (W) x 125mm (D) x 145mm (H)  
(2.63" (W) x 4.92" (D) x 5.71" (H))

### Weight

- 1.3Kg (2.86 lbs)

### Installation

- DIN-Rail, Rack or Panel mounting

## Interface

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### Ethernet Ports

- 10/100/1000BASE-T: 8ports
- 1000BASE Fiber: 2 ports

### LED Indicators

- Per Unit: Power1 (Green), Power2 (Green), Alarm (Red)
- Per Port: Link & Activity (Green)
- Per PoE Port: PoE status (Amber)

### Alarm Contact

- One relay output with current 1A@250VAC
- Supports normal close and normal open

## Environment

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### 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

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### ISO

- Manufactured in an ISO 9001 facility

### Vehicles

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### E-Mark

### EMI

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### FCC Part 15B Class A

### VCCI Class A

### EN 61000-6-4

### EN 61000-3-2

### EN 61000-3-3

### EMS

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### EN 61000-6-2

- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated FRI 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 Compliance

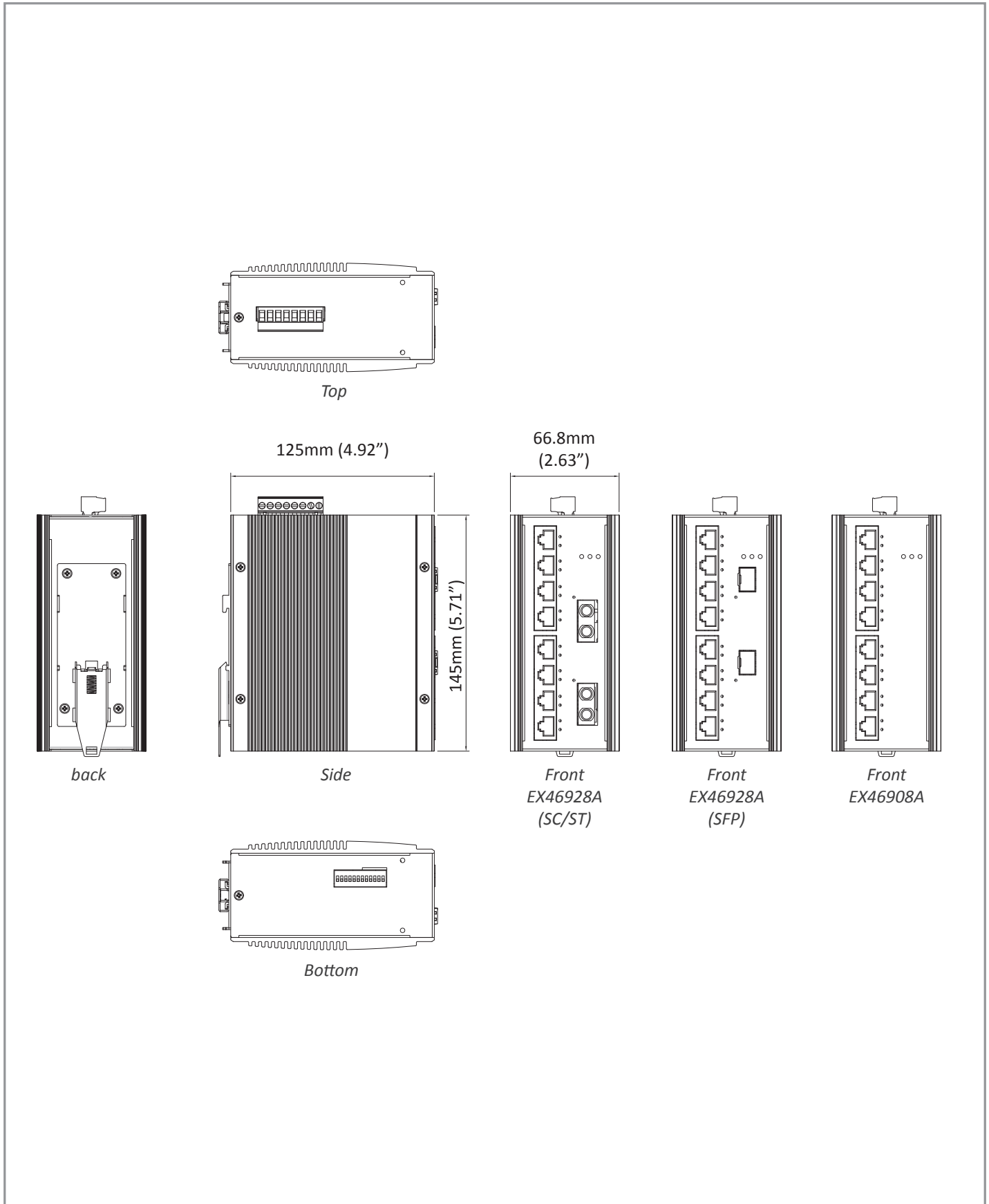
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### IEC 60068-2-6 Fc (Vibration)

### IEC 60068-2-27 Ea (Shock)

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

# Dimensions



## Ordering Information

### Model

<b>EX46908A-0-Z</b>	Hardened Unmanaged 8-port 10/100/1000BASE-T (8 x PoE 120W) Gigabit Ethernet Switch
<b>EX46928A-X-Z</b>	Hardened Unmanaged 8-port 10/100/1000BASE-T (8 x PoE 120W) + 2-port 1000BASE-SX/LX/SFP Gigabit Ethernet Switch

\* DIN-Rail mounting kit included

### Optical Port Options (X)

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

### Power Input Options (Z)

<b>J</b>	18 to 57VDC
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### Optional Accessories

<b>KP-BK71000</b>	Rack Mounting Kits
<b>KP-AA96-480</b>	Panel Mounting Kits
<b>SDR-240-48</b>	240W/5A DIN-Rail 48VDC Industrial Power Supply (for terminal block)