

## 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 IEEE 802.3az standards

### + High Reliability

Fanless Design  
» No moving part

## 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 802.1az Energy Efficient Ethernet  
IEEE 802.3af/at Power over Ethernet (PoE)

#### Forward and Filtering Rate

4,880pps for 10Mbps  
148,810pps for 100Mbps  
1,488,100pps for 1000Mbps

#### Packet Buffer Memory

4Mbits

#### Processing Type

Store-and-Forward  
Auto Negotiation  
Half-duplex back-pressure and IEEE 802.3x full-duplex flow control  
Auto MDI/MDIX

#### Jumbo Frame

9.6K bytes

#### Address Table Size

8K MAC addresses

### + Power

#### Input

18-57VDC

#### Power Consumption

Device: 11.2W  
PoE Power Budget: 120W  
Port 1 to 4, 10/100/1000 PoE Ports: 60W  
Port 5 to 8, 10/100/1000 PoE Ports: 60W

#### PoE Technology

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

#### Protection

Reverse polarity protection

### + Mechanical

#### Casing Material

Metal Case

#### IP Rating

IP30

**Dimensions**

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

**Weight**

1.3Kg (2.86lbs)

**Installation**

DIN-Rail, Rack or Panel mounting

**+ Interface**

**Ethernet Ports**

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

**LED Indicators**

Per Unit: Power 1 (Green), Power 2 (Green), Alarm (Red)

Per Port: Link/Activity (Green)

Per PoE Port: PoE Status (Amber)

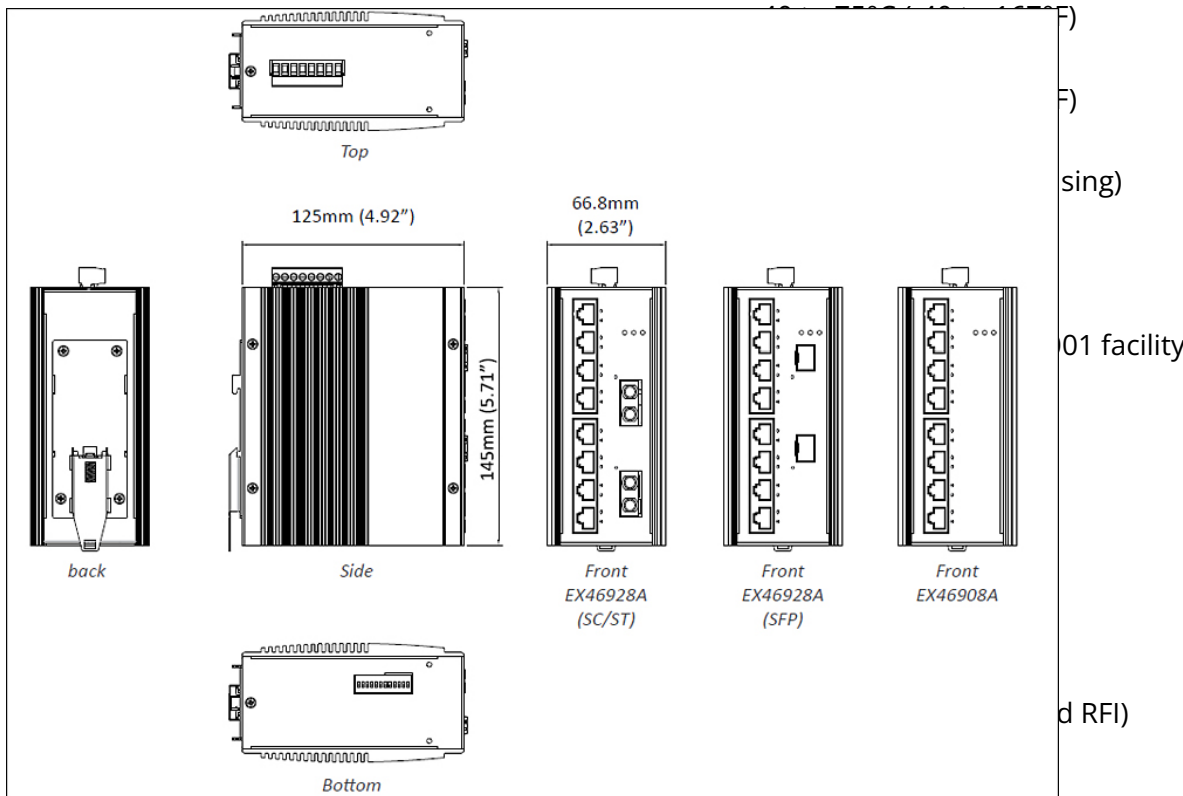
**Alarm Contact**

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

**Dimensions**

**+ Environmental**

**Operating Temp.**



- EN 61000-4-6 (Induced RFI)
- EN 61000-4-8 (Magnetic field)

**Safety**

UL 61010

**Environmental Test Compliance**

- IEC 60068-2-6 Fc (Vibration)
- IEC 60068-2-27 Ea (Shock)
- FED STD 101C Method 5007.1 (Free fall w/package)

**Industrial**

E-Mark (Vehicles)

## Ordering Info

### Model

<b>EX46908A-0-Z</b>	8-port 10/100/1000BASE-T (8 x PoE 120W) Gigabit Hardened Unmanaged Ethernet Switch
<b>EX46928A-X-Z</b>	8-port 10/100/1000BASE-T (8 x PoE 120W) +2-port 1000BASE-SX/LX/SFP Gigabit Hardened Unmanaged 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>KR-BK71000</b>	Rack Mounting Kits
<b>KP-AA96-480</b>	Panel Mounting Kits
<b>NDR-240-48</b>	240W/5A DIN-Rail 48VDC Industrial Power Supply



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