

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

Technology

Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3ab 1000BASE-T
- IEEE802.3z 1000BASE-SX/1000BASE-LX
- IEEE802.3x, 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

Input Voltage

- 18 - 57VDC

Power Consumption

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

PoE Technology

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

Protection

- Reverse polarity protection

Mechanical

Casing

- Metal case
- IP30

Dimensions

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

Weight

- 1.3Kg (2.86 lbs)

Installation

- DIN-Rail, Rack or Panel mounting

Interface

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

Operating Temperature

- -40 to 75°C (-40 to 167°F)

Storage Temperature

- -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity

- 5% to 95% (non-condensing)

Regulatory Approvals

ISO

- Manufactured in an ISO 9001 facility

Vehicles

E-Mark

EMI

FCC Part 15B Class A

VCCI Class A

EN 61000-6-4

EN 61000-3-2

EN 61000-3-3

EMS

EN 61000-6-2

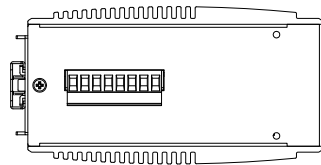
- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated FRI Standards)
- EN 61000-4-4 (Burst Standards)
- EN 61000-4-5 (Surge Standards)
- EN 61000-4-6 (Induced RFI Standards)
- EN 61000-4-8 (Magnetic Field Standards)

Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

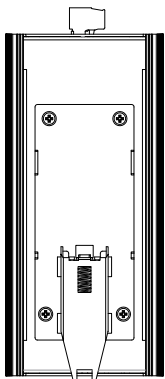
FED STD 101C Method 5007.1 (Free fall w/ package)



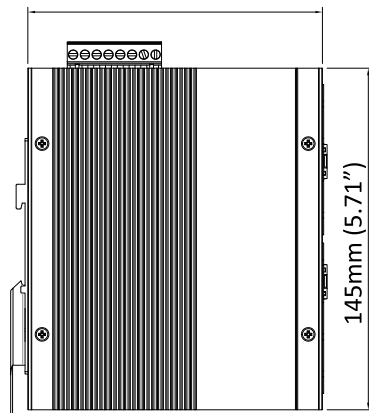
Top

125mm (4.92")

66.8mm
(2.63")

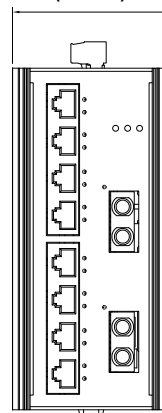


back

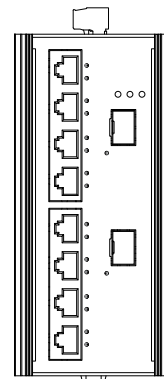


Side

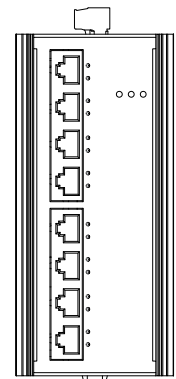
145mm (5.71")



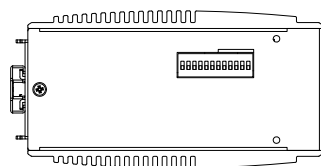
Front
EX46928A
(SC/ST)



Front
EX46928A
(SFP)



Front
EX46908A



Bottom

Ordering Information

Model

EX46908A-0-Z	Hardened Unmanaged 8-port 10/100/1000BASE-T (8 x PoE 120W) Gigabit Ethernet Switch
EX46928A-X-Z	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)

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

Power Input Options (Z)

J	18 to 57VDC
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Optional Accessories

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

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