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

✚ 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

✚ Environmental

Operating Temp.
-40 to 75°C (-40 to 167°F)

Storage Temp.
-40 to 85°C (-40 to 185°F)

Relative Humidity
5% to 95% (non-condensing)

+ 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

+ Regulatory

ISO
Manufactured in ISO-9001 facility

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)
- EN 61000-4-3 (Radiated RFI)
- EN 61000-4-4 (Burst)
- EN 61000-4-5 (Surge)
- EN 61000-4-6 (Induced RFI)
- EN 61000-4-8 (Magnetic field)

Safety
UL 61010

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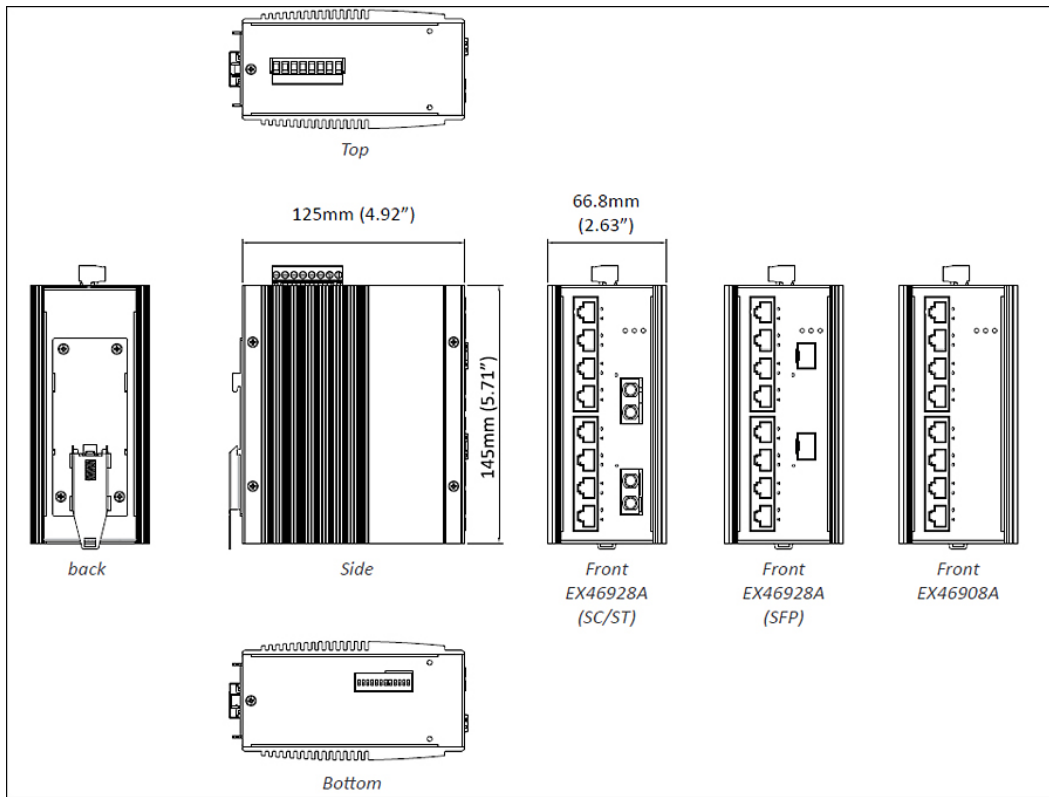IEC 60068-2-6 Fc (Vibration)
IEC 60068-2-27 Ea (Shock)
FED STD 101C Method 5007.1 (Free fall w/package)

Industrial
E-Mark (Vehicles)

Dimensions

Top

125mm (4.92")

66.8mm (2.63")

145mm (5.71")

back

Side

Front
EX46928A
(SC/ST)

Front
EX46928A
(SFP)

Front
EX46908A

Bottom

Ordering Info

✚ Model

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

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

✚ Optional Accessories

KR-BK71000	Rack Mounting Kits
KP-AA96-480	Panel Mounting Kits
NDR-240-48	240W/5A DIN-Rail 48VDC Industrial Power Supply