

## EX45900 Series

Hardened Unmanaged 5-port 10/100/1000BASE (4 x PoE) +1-port 1000BASE-X Gigabit Ethernet Switch



## Overview

EtherWAN's EX45900 Series provides a hardened 5-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 EX45900 Series is equipped with 4 10/100/1000BASE-TX PoE ports, in combination with one Gigabit Fiber option. The EX45900 is feature rich with 10K Jumbo Frame support, full wire speed Gigabit throughput, QoS support and eco-friendly IEEE802.3az EEE (Energy Efficient Ethernet) compliant, making the EX45900 Series a powerful yet energy efficient network switch.

The IEEE802.3at PoE ports provide up to 30W/port with a total power budget of 120W, 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.

EtherWAN — "When Connectivity is Crucial."

## Spotlight

### Power over Ethernet

- » Port 1-4 are PoE ports that provide power up to 30W

### Energy Efficient Ethernet (EEE)

- » Supports IEEE802.3az standard)

### Fiber Connectivity

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

# 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 802.3az Energy Efficient Ethernet
- IEEE 802.1p Quality of Service(QoS)
- IEEE 802.3af/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

- 1M bits

### Processing Type

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

### Jumbo Frame

- 10K bytes

### Address Table Size

- 8192 MAC addresses

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## Power

### Input Voltage

- 18-57VDC

### Power Consumption

- Device: Max. 7W (without PoE)
- PoE Power budget: 120W

### PoE Technology

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

### Protection

- Reverse polarity protection
- 

## Mechanical

### Casing

- Metal case
- IP30

### Dimensions

- 30 x 100 x 149mm (W x D x H)  
(1.18" x 4" x 5.96")

### Weight

- 0.34Kg (0.75lb.)

### Installation

- DIN-Rail
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## Interface

### Ethernet Ports

- 10/100/1000BASE-T: 5 ports
- 1000BASE-X: 0 or 1 ports

### LED Indicators

- Per Unit: Power 1 (Green), Power 2 (Green), Alarm (Red)
- Per Port: 10/100M (Green), 1000M (Amber)
- Per PoE Port: PoE status (Amber)

### DIP Switches

- Enable/Disable Port fault alarm
- Enable/Disable Broadcast Storm Protection
- Enable/Disable Jumbo Frame

## Alarm Contact

- One relay output with current 1A@250VAC
  - Supports normal open
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## Environment

### Operating Temperature

- -40 to 75°C (-40 to 167°F);  
Tested @ -40 to 85°C (-40 to 185°F)

### Storage Temperature

- -40 to 85°C (-40 to 185°F)

### Ambient Relative Humidity

- 5% to 95% (non-condensing)
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## Regulatory Approvals

### ISO

- Manufactured in an ISO 9001 facility

### Safety

UL 60950

UL 61010 (EX45905/EX45915-V only)

### EMI

FCC Part 15B Class A

VCCI Class A

EN 61000-6-4

EN 61000-3-2

EN 61000-3-3

EN 55022 Class A

### EMS

EN 61000-6-2

- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated RFI 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 Compliances

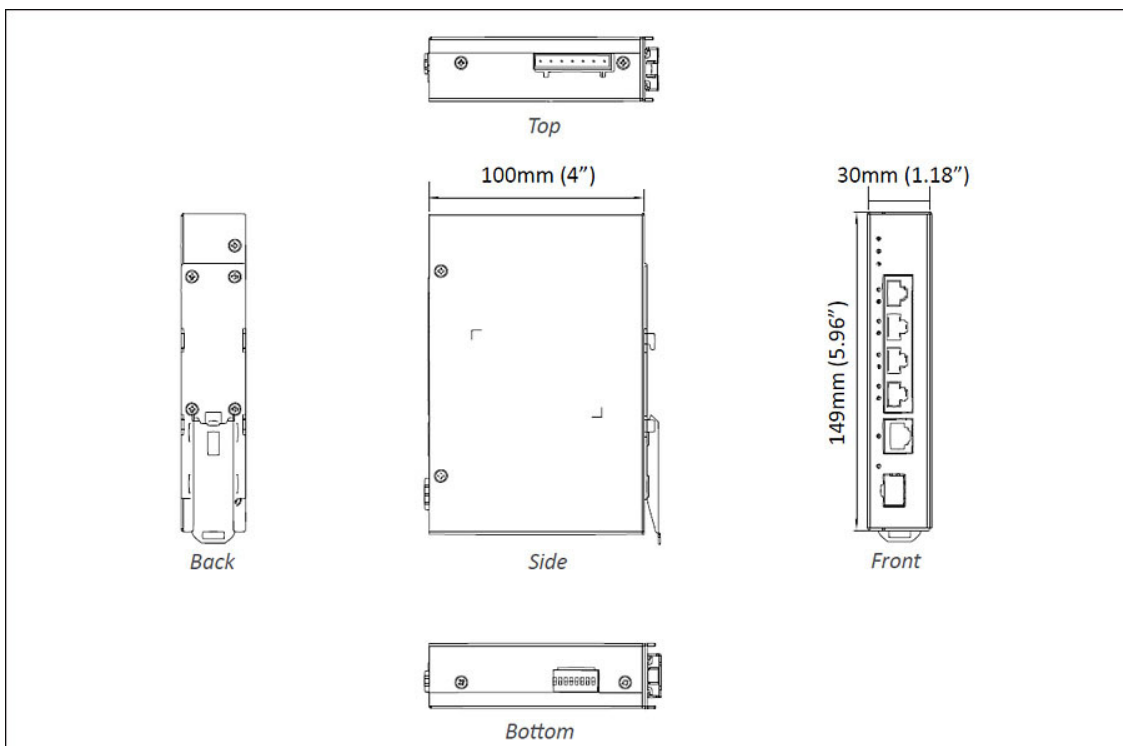
IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

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

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## Dimensions



## Ordering Info

### Model

EX45905	5-port 10/100/1000BASE-T (4 x PoE) Gigabit Hardened Unmanaged Ethernet Switch
EX45915-V	5-port 10/100/1000BASE-T (4 x PoE) +1-port 1000BASE-X Gigabit Hardened Unmanaged Ethernet Switch

\* DIN-Rail mounting kit included.

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### Optional Accessories

NDR-240-48	240W/5A DIN-Rail 48VDC Industrial Power Supply
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