

# 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

# 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
- IEEE802.3x Full duplex flow control
- IEEE802.3az Energy Efficient Ethernet
- IEEE802.1p Quality of Service(QoS)
- 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

- 1M bits

### Processing Type

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

### Jumbo Frame

- 10K bytes

### Address Table Size

- 8192 MAC addresses

## Power

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### Input Voltage

- 24/48VDC

### 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

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### Casing

- Metal case
- IP30

### Dimensions

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

### Weight

- 0.34Kg (0.75lb.)

### Installation

- DIN-Rail

## Interface

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### 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)

### Alarm Contact

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

## Environment

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### Operating Temperature

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

### Safety

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#### UL 60950

### 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

#### EN 55022 Class A

### EMS

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#### 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

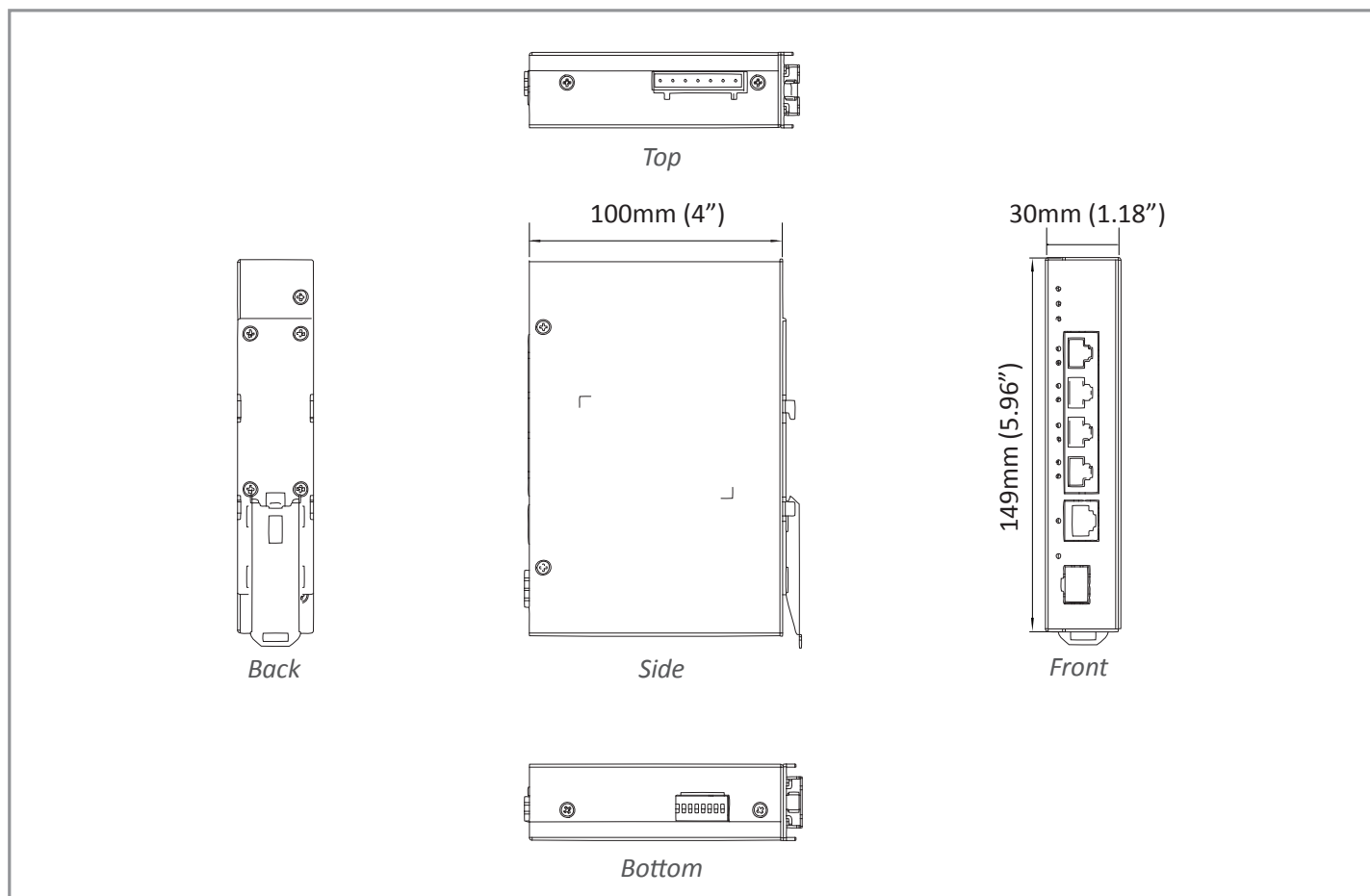
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#### IEC 60068-2-6 Fc (Vibration)

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

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

## Dimensions



## Ordering Information

### Model

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

\* DIN-Rail mounting kit included

### Optical Port Options (X)

<b>3</b>	1000BASE-SX(SC)-550m
<b>5</b>	1000BASE-SX(ST)-550m
<b>A</b>	1000BASE-LX(SC)-10km
<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

### Optional Accessories

<b>SDR-240-48</b>	240W/5A DIN-Rail 48VDC Industrial Power Supply (for terminal block)
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