

# 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 IEEE 802.3at 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 IEEE 802.3az EEE (Energy Efficient Ethernet) compliant, making the EX45900 Series a powerful yet energy efficient network switch.

The IEEE 802.3at 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 IEEE 802.3az standard

### • Fiber Connectivity

- Up to one 1000BASE-SX ports with SFP options

# Hardware 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

## Power

---

### Input

- 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

## 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

## 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)

## 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

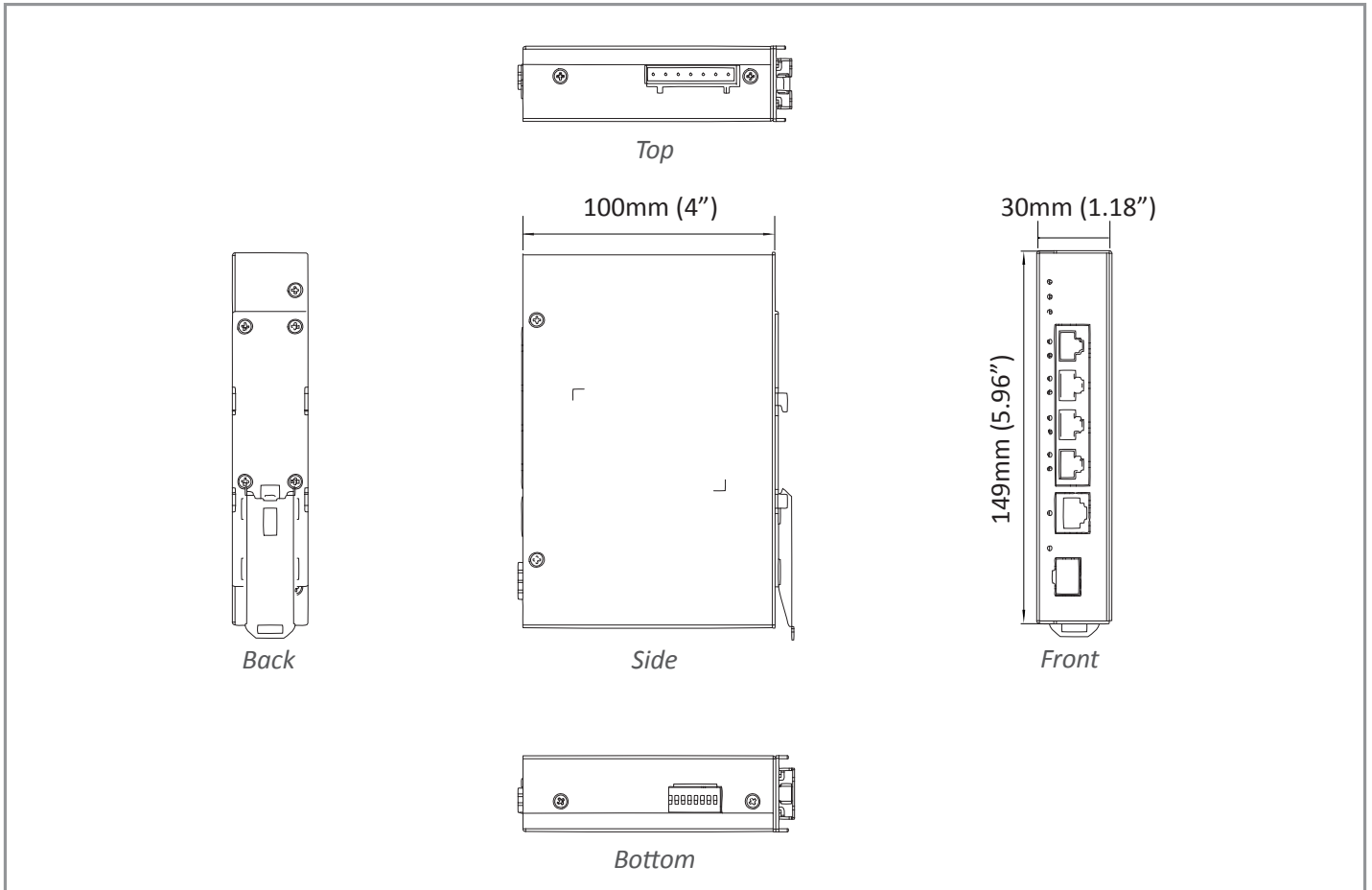
---

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

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

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

## Dimensions



## Ordering Information

### Model

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

\* DIN-Rail mounting kit included.

### Optional Accessories

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