

## 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."

## Highlights

### + Power over Ethernet

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

### + Fiber Connectivity

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

### + Energy Efficient Ethernet (EEE)

Supports IEEE802.3az standard)

## 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/li>  
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 (EX42305/EX42315-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

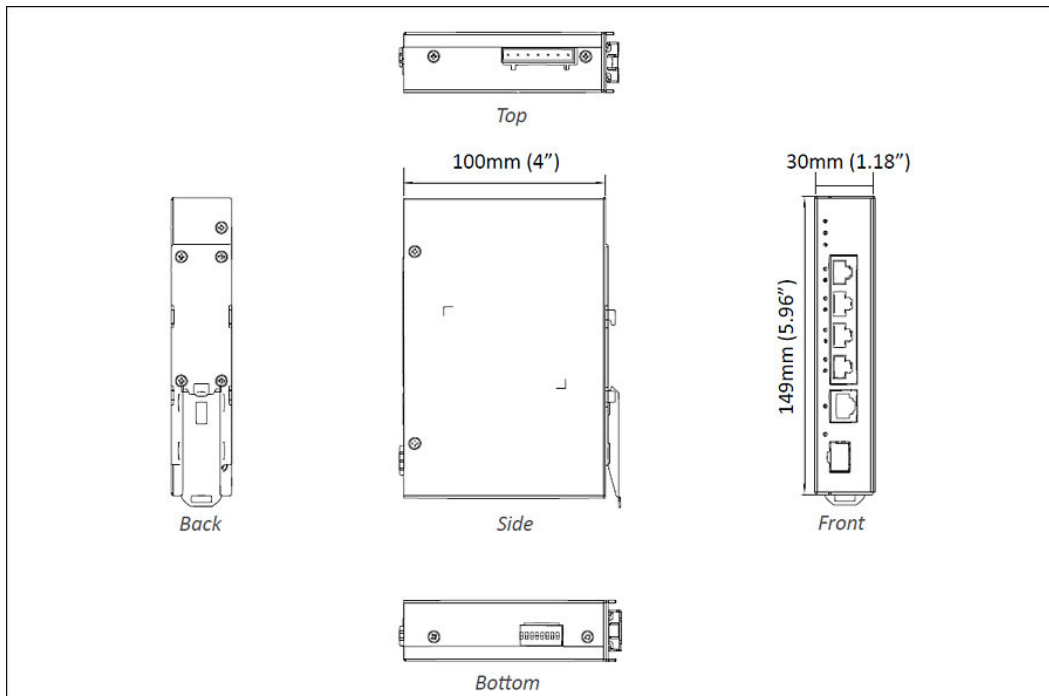
## EMS

- 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 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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