

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

+ 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)

+ 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

+ 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)

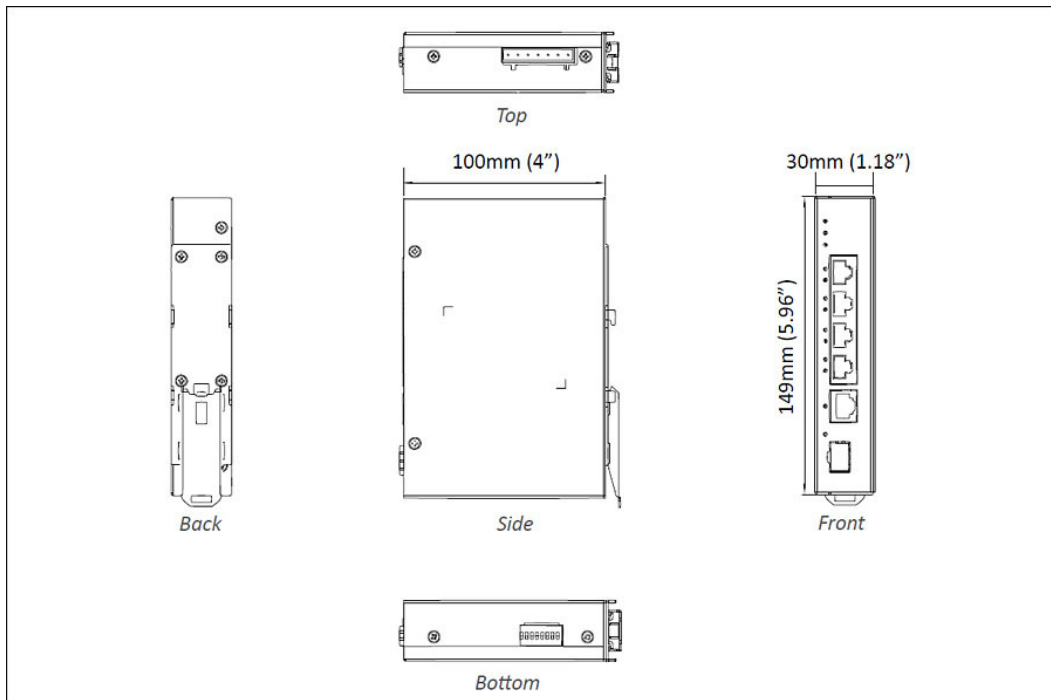
Environmental Test Compliances

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.

+ Optional Accessories

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