

## EX42900 Series

Hardened Unmanaged 5 port 10/100/1000BASE-T and 1-port 1000BASE-X Gigabit Ethernet Switch



## Overview

EtherWAN's EX42900 Series is a compact Hardened Unmanaged Gigabit switching platform, designed for easy deployment in harsh environments.

The EX42900 Series is equipped with five Gigabit Ethernet ports, or a combination of Gigabit copper ports and one Gigabit fiber port for long distance connectivity. Although unmanaged, the EX42900 is feature rich with Jumbo Frame support, full wire speed Gigabit throughput, QoS support and eco-friendly IEEE802.3az EEE (Energy Efficient Ethernet) compliant, making the EX42900 Series a powerful yet energy efficient network switch.

EtherWAN — "When Connectivity is Crucial."

## Highlights

### + Hardened Grade

Compliant Supports -40 to 75°C (-40 to 167°F) operating temperature

### + Jumbo Frame Support

Compliant Up to 10K bytes (EX42905/EX42914 Series)

### + Fiber Connectivity

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

### + High Reliability

Compliant Fanless Design  
Compliant No moving part

# 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)

### Forward and Filtering Rate

14,880pps for 10Mbps  
148,810pps for 100Mbps  
1,488,100pps for 1000Mbps

### Packet Buffer Memory

EX42905/EX42914: 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

EX42905/EX42914: 10K bytes

### Address Table Size

EX42905/EX42914: 8K MAC addresses

## + Power

### Input Voltage

12-48VDC

### Power Consumption

6.5W Max. 0.25A@24VDC

### Protection

Reverse polarity protection

## + Mechanical

### Casing

Metal case  
IP30

### Dimensions

EX42905/EX42914: 30 x 76.3 x 110mm (W x D x H) (1.18" x 3.05" x 4.4")

### Weight

EX42905/EX42914: 0.34Kg (0.75lb.)

### Installation

DIN-Rail (Top hat type 35mm)

## + Interface

### **Ethernet Ports**

EX42905/EX42914: 10/100/1000BASE-T: 5 or 4 ports 1000BASE-X: 0 or 1 ports

### **LED Indicators**

EX42905/EX42914: Per Unit: Power (Green) Per Port: 10/100M(Green), 1000M (Yellow)

## + 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 (EX42905/EX42914 Series 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)

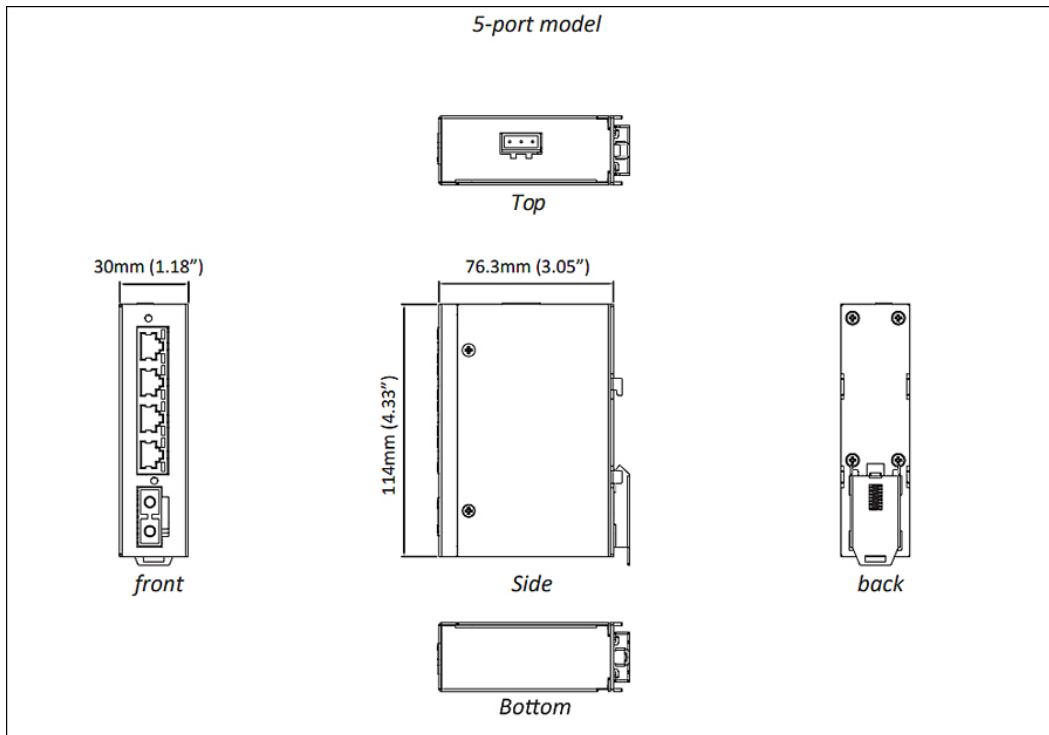
### **Environmental Test Compliances**

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

**EX42905** 5-port 10/100/1000BASE-T Gigabit Hardened Unmanaged Ethernet Switch

**EX42914-X** 4-port 10/100/1000BASE-T +1-port 1000BASE-X Gigabit Hardened Unmanaged Ethernet Switch

\* DIN-Rail mounting kit included.

### + Optical Port Options (X)

**3** 1000BASE-SX (SC) - 550m

**5** 1000BASE-SX (ST) - 550m

**A** 1000BASE-LX (SC) - 10km

**R** 1000BASE-BX (SC) WDM-TX: 1310nm/RX: 1550nm-20Km

**S** 1000BASE-BX (SC) WDM-TX: 1550nm/RX: 1310nm-20Km

### + Optional Accessories

**HDR-30-24** 30W/1.5A DIN-Rail 24VDC Industrial Power Supply

**HDR-60-24** 60W/2.5A DIN-Rail 24VDC Industrial Power Supply

**EDR-75-24** 75W/3.2A DIN-Rail 24VDC Industrial Power Supply

**EX41-145046-X** Power Supply 45W 12VDC with Open Wire  
(X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA



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