

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)

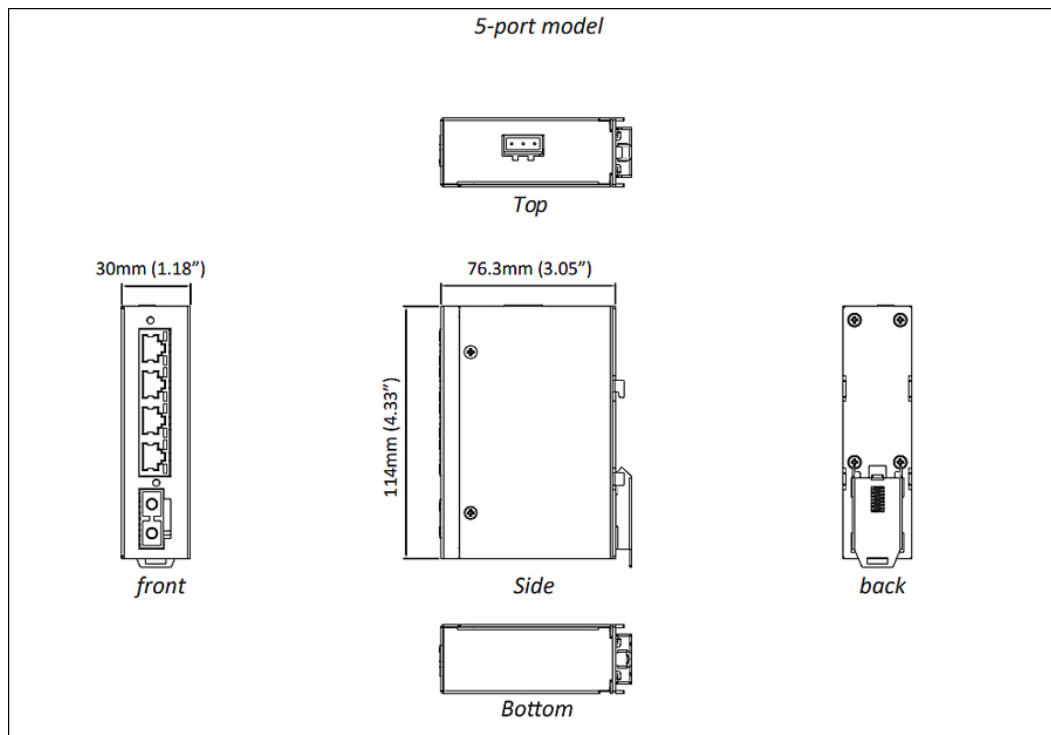
Environmental Test Compliances

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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