

EX42900 Series

Hardened Unmanaged 5 to 8-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 or eight 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."

Spotlight

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)
- » Compliant Up to 9720 bytes (EX42908/EX42917 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
- EX42908/EX42917: 192KB

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
- EX42908/EX42917: 9720 bytes

Address Table Size

- EX42905/EX42914: 8K MAC addresses
- EX42908/EX42917: 4K MAC addresses

Broadcast Storm Protection Threshold (EX42908/EX42917 only)

- Limit 15000 fps@64 frame size, 600 fps@1518 frame size.

Power

Input Voltage

- 12-48VDC

Power Consumption

- 6.5W Max. 0.25A@24VDC

Protection

- Reverse polarity protection
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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")
- EX42908/EX42917:
30 x 100 x 149mm (W x D x H)
(1.18" x 4" x 5.96")

Weight

- EX42905/EX42914: 0.34Kg (0.75lb.)
- EX42908/EX42817: 0.39Kg (0.841lb.)

Installation

- DIN-Rail (Top hat type 35mm)
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Interface

Ethernet Ports

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

1000BASE-X: 0 or 1 ports

- EX42908/EX42917:

10/100/1000BASE-T: 8 or 7 ports

1000BASE-X: 0 or 1 ports

LED Indicators

- EX42905/EX42914:

Per Unit: Power (Green)

Per Port: 10/100M(Green), 1000M (Yellow)

- EX42908/EX42917:

Per Unit : Power 1 (Green), Power 2 (Green), Alarm (Red)

Per Port: 10/100M(Green), 1000M (Yellow)

Alarm Contact (EX42908/EX42917 only)

- One relay output with current 1A@250VAC
- Supports normal close and normal open

DIP Switches (EX42908/EX42917 only)

- Enable/Disable Port fault alarm

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)

UL 62368 (EX42908/EX42917 Series only)

UL ISA12.12.01 Class I Div. 2 (EX42908/EX42917 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)

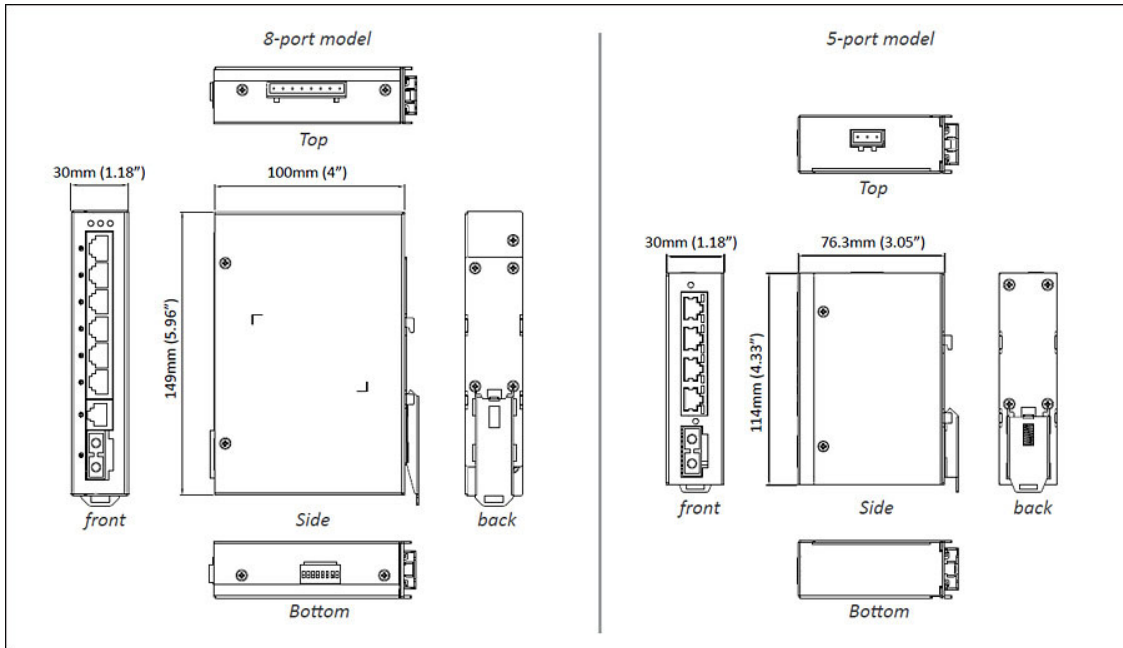
Environmental Test Compliances

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
EX42908	8-port 10/100/1000BASE-T Gigabit Hardened Unmanaged Ethernet Switch
EX42917-X	7-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

