EX41922 Series

Hardened Unmanaged 2-port 10/100/1000BASE + 2-port 100/1000 SFP Ethernet Switch





Overview

EtherWAN's EX41922 Series is a compact hardened unmanaged gigabit switch, designed as an easily deployed platform for peripheral devices in harsh environments. It is a cost-effective option for surveillance systems in extreme climates.

The EX41922 Series is equipped with two 10/100/1000Base RJ-45 copper ports, and two 100/1000Base SFP fiber optic slots for long distance connectivity. The two uplink SFP interfaces provide 100 or 1000SFP speed, selected by DIP switch. They can be used in a daisy chain formation, and are compatible with the proprietary Alpha-chain redundancy protocol when used with a compatible EtherWAN managed switch. Although unmanaged, the EX41922 is feature-rich with 10K Jumbo Frame support, full wire speed gigabit throughput, QoS support, and eco-friendly IEEE802.3az EEE (Energy Efficient Ethernet) compliance. With its hardened specifications, high performance, and energy efficiency, the EX41922 is a flexible and reliable solution for extended networks.

EtherWAN — "**When Connectivity is Crucial.**"

Spotlight

Hardened Grade

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

Redundant power inputs on terminal block connector

Supports DIN-Rail mounting

Fiber Connectivity

Up to two 1000BASE SFP ports for daisy chain or Alpha-chain applications

Provides 100BASE or 1000BASE SFP by DIP switch

Port Failure Alarm

Provide relay alarm to notify users when power fails or link down occurs by DIP switch

Full Gigabit bandwidth and Jumbo frame

Gigabit wire-speed transmission for bandwidth-demanding application

Jumbo frame up to 10K bytes to increase throughput and transmission efficiency

Specifications

Technology

Standards

IEEE802.3 10BASE-T

IEEE802.3u 100BASE-TX/100BASE-FX

IEEE802.3ab 1000BASE-T

IEEE802.3z 1000BASE-SX/1000BASE-LX

IEEE802.1x, Full duplex flow control

IEEE802.1az Energy Efficient Ethernet

Forward and Filtering Rate

14,880pps for 10Mbps

148,810pps for 100Mbps

1,488,100pps for 1000Mbps

Packet Buffer Memory

1MB

Processing Type

Store-and-Forward

Auto Negotiation

Half-duplex back-pressure and IEEE802.3x full-duplex flow control

Auto MDI/MDIX

Jumbo Frame

10K bytes

Address Table Size

8K MAC addresses

Broadcast Storm Protection Threshold

Limit 15,000 packets per second.

Interface

Ethernet Ports

10/100/1000BASE-T: 2 ports

100/1000BASE SFP: 2 ports

LED Indicators

Per Unit: Power1 (Green), Power2 (Green), Alarm (Red)

Per Port: Link & Activity (Green)

DIP Switches

Enable/Disable Port fault alarm, SFP port on 100BASE.

Alarm Contact

One relay output with current 1A@250VAC

Supports normal close and normal open

Environment

Operating Temperature

-40 to 75°C (-40 to 167°F)

Storage Temperature

-40 to 85°C (-40 to 185°F)

Ambient Relative Humidity

5% to 95% (non-condensing)

Power

Voltage

12~48VDC

Power Consumption

3.2W Max. 0.26A@12VDC

0.13A@24VDC

0.06A@48VDC

Mechanical

Casing

Metal case

IP30

Dimensions

36 x 90 x 100mm (W x D x H)

(1.42" x 3.54" x 3.94")

Weight

0.25Kg (0.55lb)

Installation

DIN-Rail

Regulatory Approvals

ISO

Manufactured in an ISO 9001 facility

EMI

FCC Part 15B Class A

VCCI Class A

EN 61000-6-4

EMS

EN 61000-6-2

• EN 61000-4-2 (ESD Standards)

• EN 61000-4-3 (Radiated FRI 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)

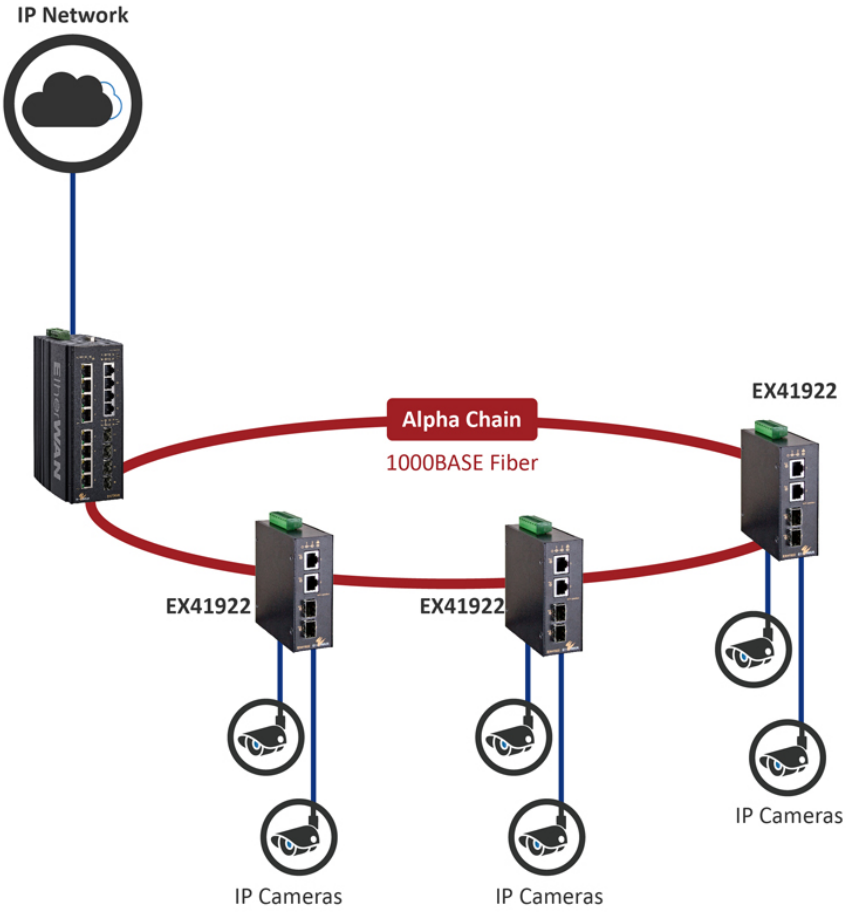
Environmental Test Compliances

IEC 60068-2-6 Fc (Vibration)

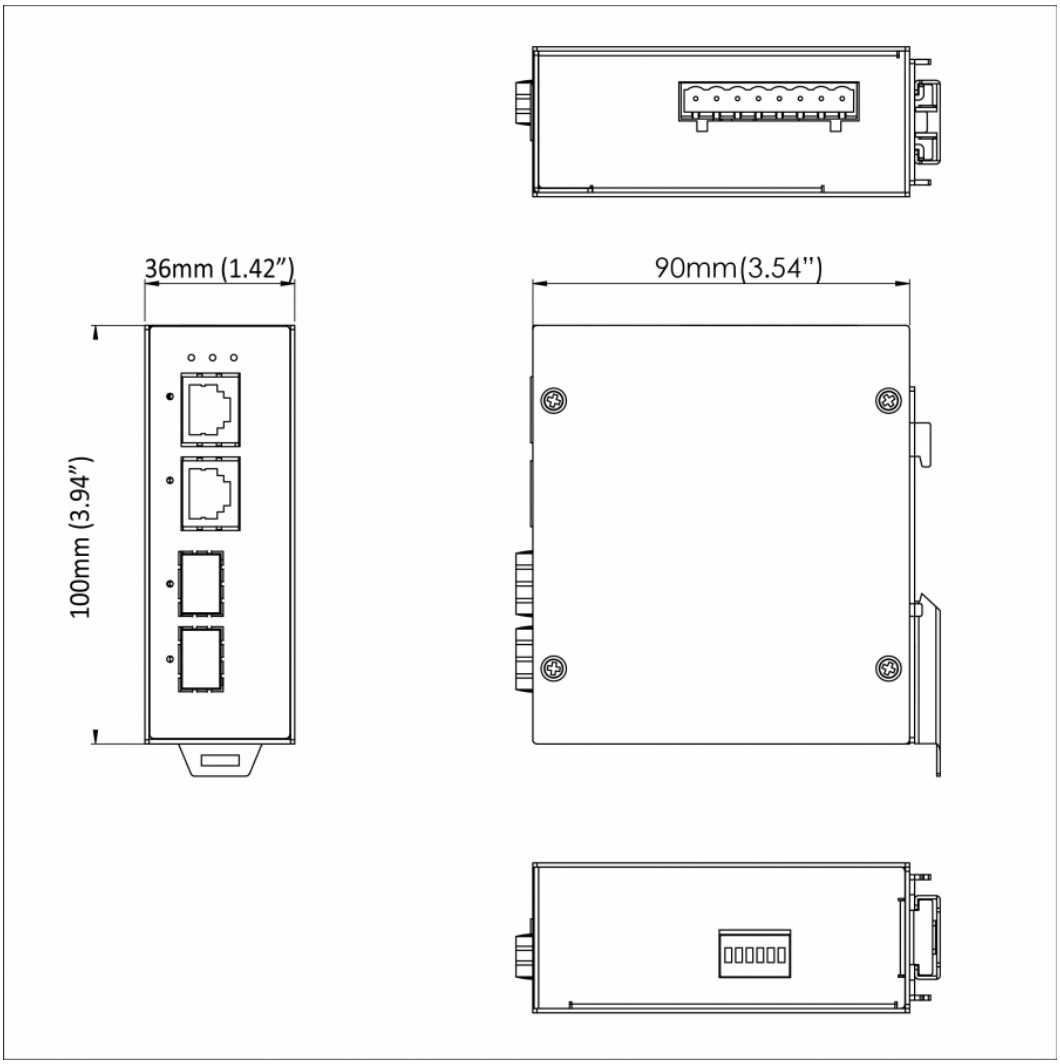
IEC 60068-2-27 Ea (Shock)

FED STD 101C Method 5007.1 (Free fall w/ package)

Application



Dimensions



Ordering Info

Model

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* DIN-Rail mounting kit included



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