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.

Power

Input 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

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)

Regulatory Approvals

ISO

- • Manufactured in an ISO 9001 facility

EMI

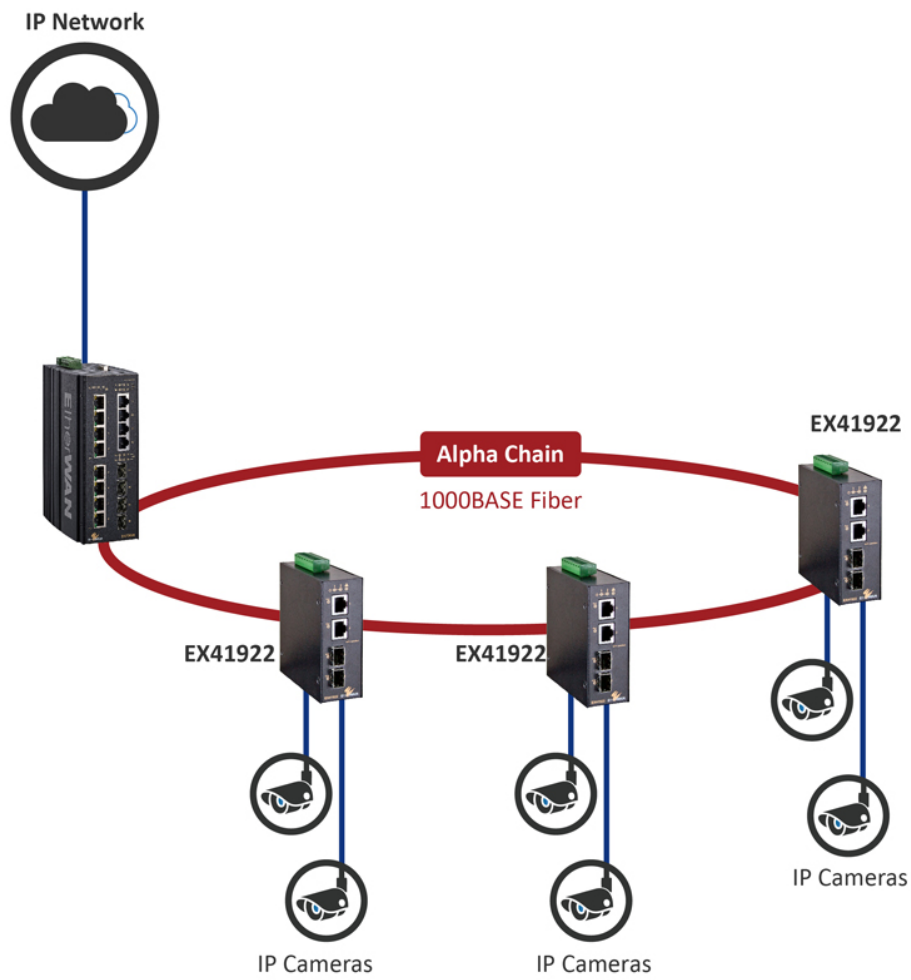- FCC Part 15B Class A
- VCCI Class A
- EN 61000-6-4

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)
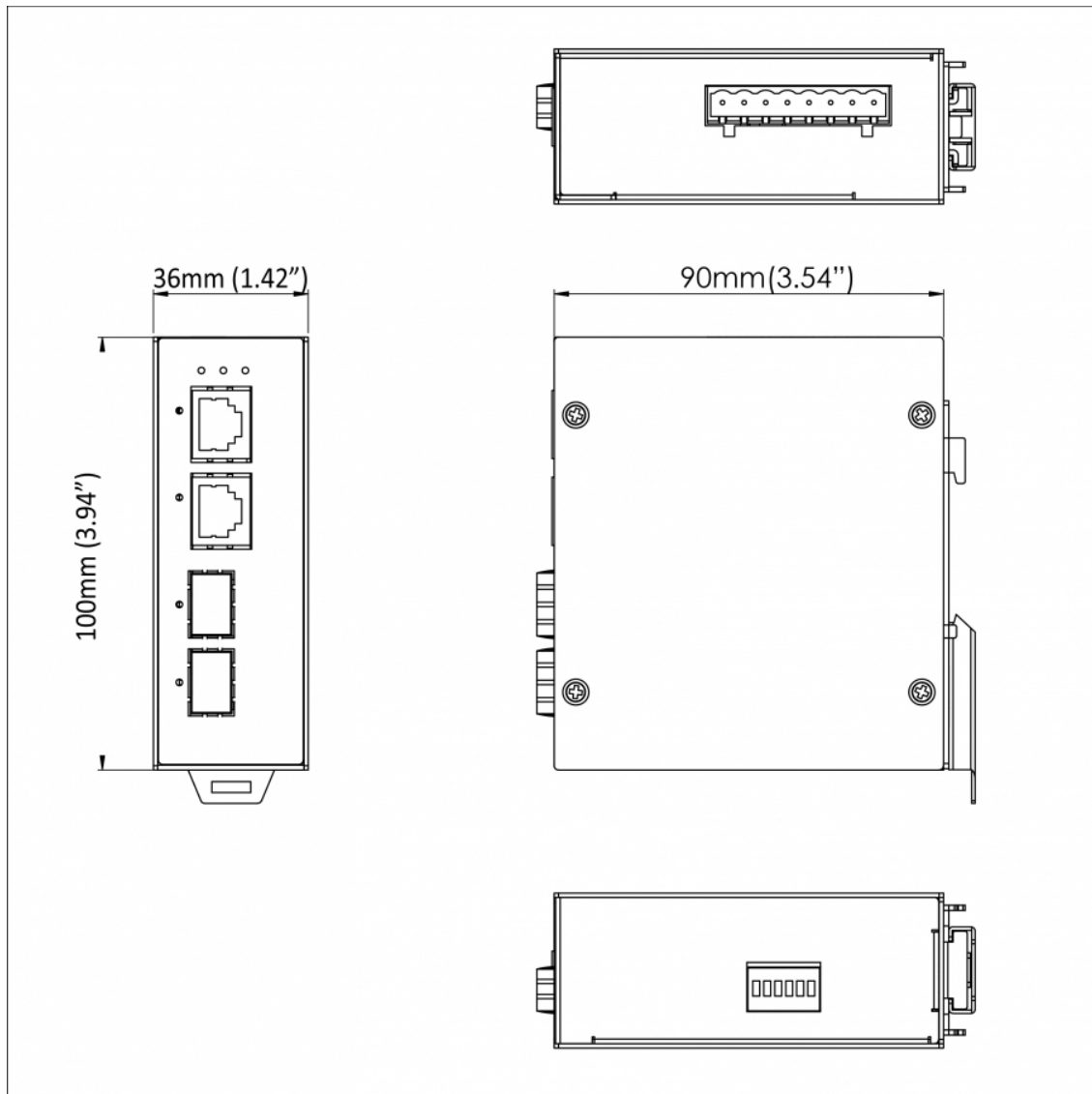 - • EN 61000-4-8 (Magnetic Field Standards)

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

IP Network

Alpha Chain

1000BASE Fiber

EX41922

EX41922

EX41922

IP Cameras

IP Cameras

IP Cameras

Dimensions

Ordering Info

Model

 EX41922 Hardened Unmanaged 2-port 10/100/1000Base-T + 2-port 100/1000 SFP Ethernet Switch
* DIN-Rail mounting kit included

EtherWAN is constantly developing and improving products. Specifications are subject to change without notice and without incurring any obligation.