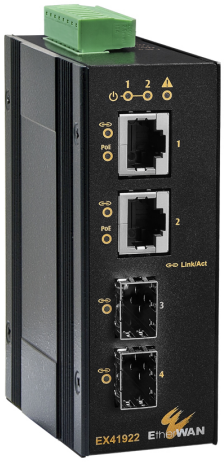
EX41922-T

Hardened Unmanaged 2-port 10/100/1000BASE PoE+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 new EX41922-T is equipped with two 10/100/1000Base RJ-45 copper ports supporting Power over Ethernet (PoE), 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. Moreover, EX41922-T provides up to 30 Watts PoE per port with a total power budget of 60 Watts. Although unmanaged, the EX41922-T 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-T 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
Redundant power inputs; Terminal Block:
52–57VDC for PoE

Power Consumption
63.6W@52VDC, 63.8W@57VDC
PoE Power budget: 60W

Power Technology
Alternative A
Pins 1/2(+), 3/6(-)

Mechanical

Casing
Metal case
IP30

Dimensions
42 x 90 x 100mm (W x D x H)
(1.65" x 3.54" x 3.93")

Weight
0.37Kg (0.82lb)

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)
Per PoE Port: PoE (Amber)

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

Alarm Contact
One relay output with current 0.5A/48VDC
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

Safety
UL 61010

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)

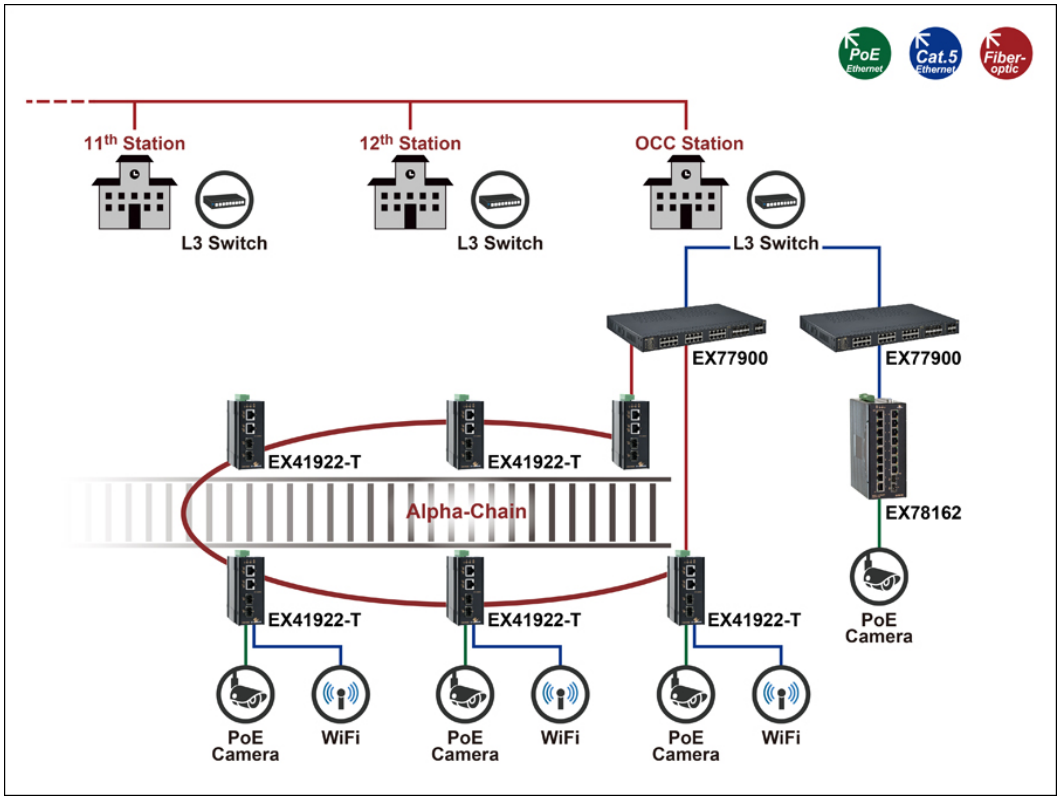
Environmental Test Compliances

IEC 60068-2-6 Fc (Vibration)

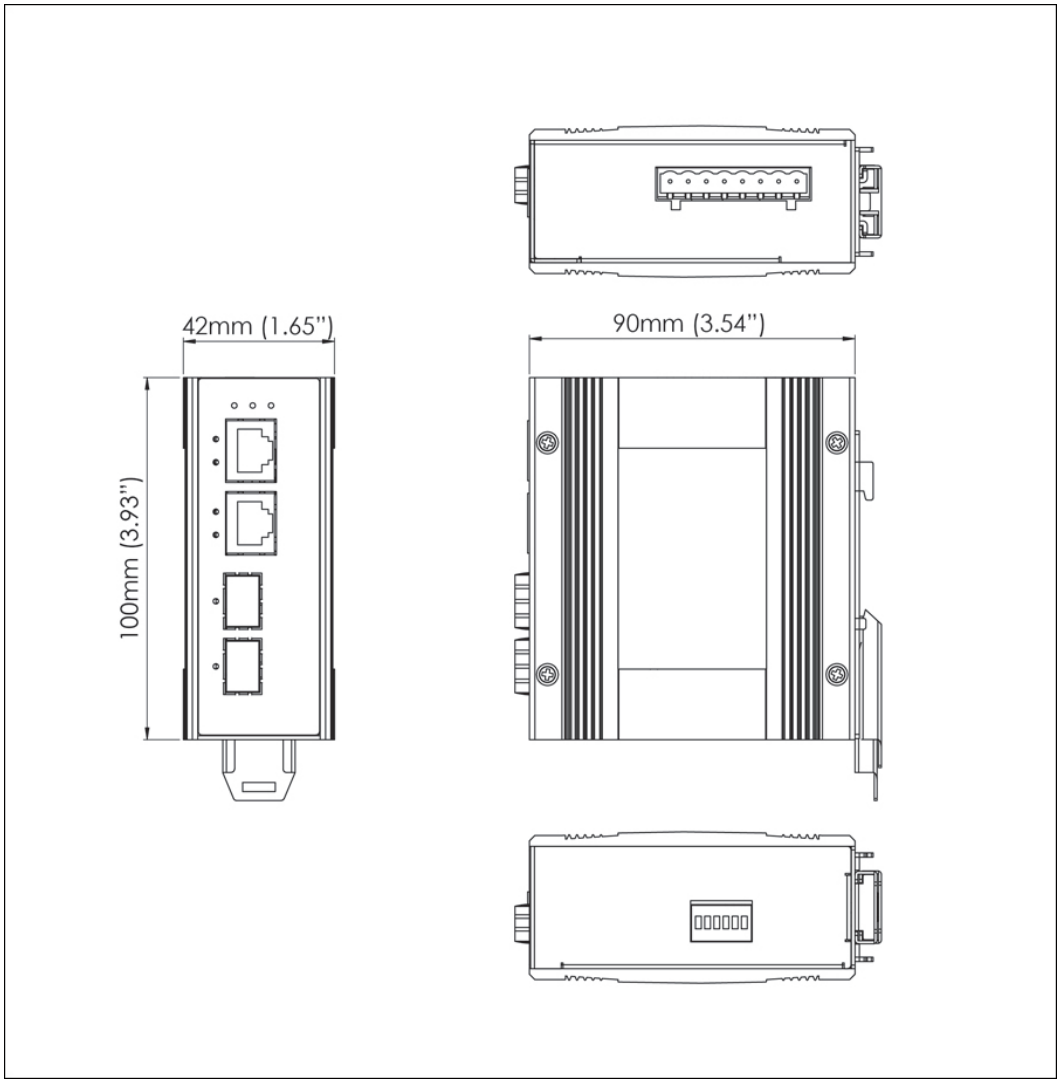
IEC 60068-2-27 Ea (Shock)

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

Application



Dimensions



Ordering Info

Model

EX41922-T	2-port 10/100/1000Base-T PoE+2-port 100/1000 SFP Hardened Unmanaged Ethernet Switch

* DIN-Rail mounting kit included

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