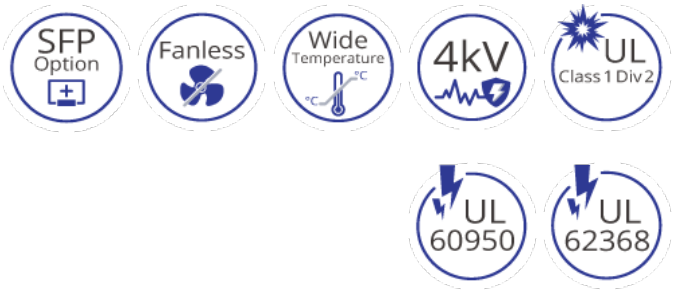
EX94000 Series

Hardened Unmanaged 4 to 8-port 10/100BASE-TX and 1 to 2-port 100BASE-FX Ethernet Switch





Overview

EtherWAN's EX94000 Series is a hardened unmanaged Fast Ethernet switching platform, designed for easy deployment in harsh environments. The EX94000 Series supports 12 to 48VDC redundant power input, and also provides relay alarm while power failure or port link down occur. The EX94000 provides 4kV surge protection, and is designed for hazardous locations (Class 1 Div.2).

The EX94000 is equipped with eight Fast Ethernet ports, or a combination of Fast Ethernet copper ports and two 100FX ports for long distance connectivity. This versatile switch features 10/100Mbps transfer speeds, full/half-duplex auto-negotiation and auto MDI/MDIX operation allowing you to connect your network devices without hassles.

The EX94000 is feature-rich with full wire speed Fast Ethernet throughput, QoS (Quality of Service), IEEE802.3az EEE (Energy Efficient Ethernet) and Broadcast storm protection. The EX94000 Series is built with relay alarm to notify users when power fails or link down occurs. It also supports Broadcast storm protection by enabling the DIP switch. The 94000 Series is housed with DIN rail mountable metal compact case which is an ideal solution for applications in harsh environments.

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

Spotlight

Hardened Grade

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

Broadcast Storm Protection

Enable/disable broadcast storm protection by DIP switch that provide another level of flexibility on industrial applications/li>

Fiber Connectivity

Up to two 100BASE-FX ports with SC, ST, WDM and SFP options

High Surge Protection and Hazardous Location Certification

Provides 4kV surge protection

Designed for hazardous locations (Class 1 Div.2)

High Reliability

Fanless design

No moving parts

Specifications

Technology

Standards

IEEE 802.3u 100BASE-TX/FX

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

Packet Buffer Memory

448K bits

Processing Type

Store-and-Forward

Auto Negotiation

Half-duplex back-pressure and IEEE 802.3x full-duplex flow control

Auto MDI/MDIX

Address Table Size

1K MAC addresses

Interface

Ethernet Ports

10/100BASE-TX: 8, 6 or 4 ports

100BASE-FX: 0, 2 or 1 ports

LED Indicators

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

Per Port: Link/Activity (Green)

DIP Switches

Enable/Disable Port fault alarm

Enable/Disable Broadcast Storm Protection

Alarm Contact

One relay output with current 1A@250VAC

Supports normal close and normal open

Environmental

Operating Temp.

-40 to 75°C (-40 to 167°F)
Tested @ -40 to 85°C (-40 to 185°F)

Storage Temp.

-40 to 85°C (-40 to 185°F)

Relative Humidity

5% to 95% (non-condensing)

Power

Input Voltage

12-48VDC (Terminal Block)

Power Consumption

12VDC@4.34W, 24VDC@4.57W, 48VDC@6.28W

Protection

Reverse Polarity Protection

Mechanical

Casing Material

Aluminum Case

IP Rating

IP30

Dimensions

50 x 110 x 135mm (W x D x H)
(1.97" x 4.33" x 5.31")

Weight

0.62Kg (1.37lbs)

Installation

DIN-Rail (Top hat type 35mm) or Panel mounting

Regulatory

ISO

Manufactured in ISO-9001 facility

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)

- EN 61000-4-3 (Radiated RFI)

- EN 61000-4-4 (Burst)

- EN 61000-4-5 (Surge)
Signal ports: ±4kV line-to-earth
DC power ports:
• ±4kV line-to-earth
• ±2kV line-to-line

- EN 61000-4-6 (Induced RFI)

- EN 61000-4-8 (Magnetic field)

Safety

UL 60950

UL 62368

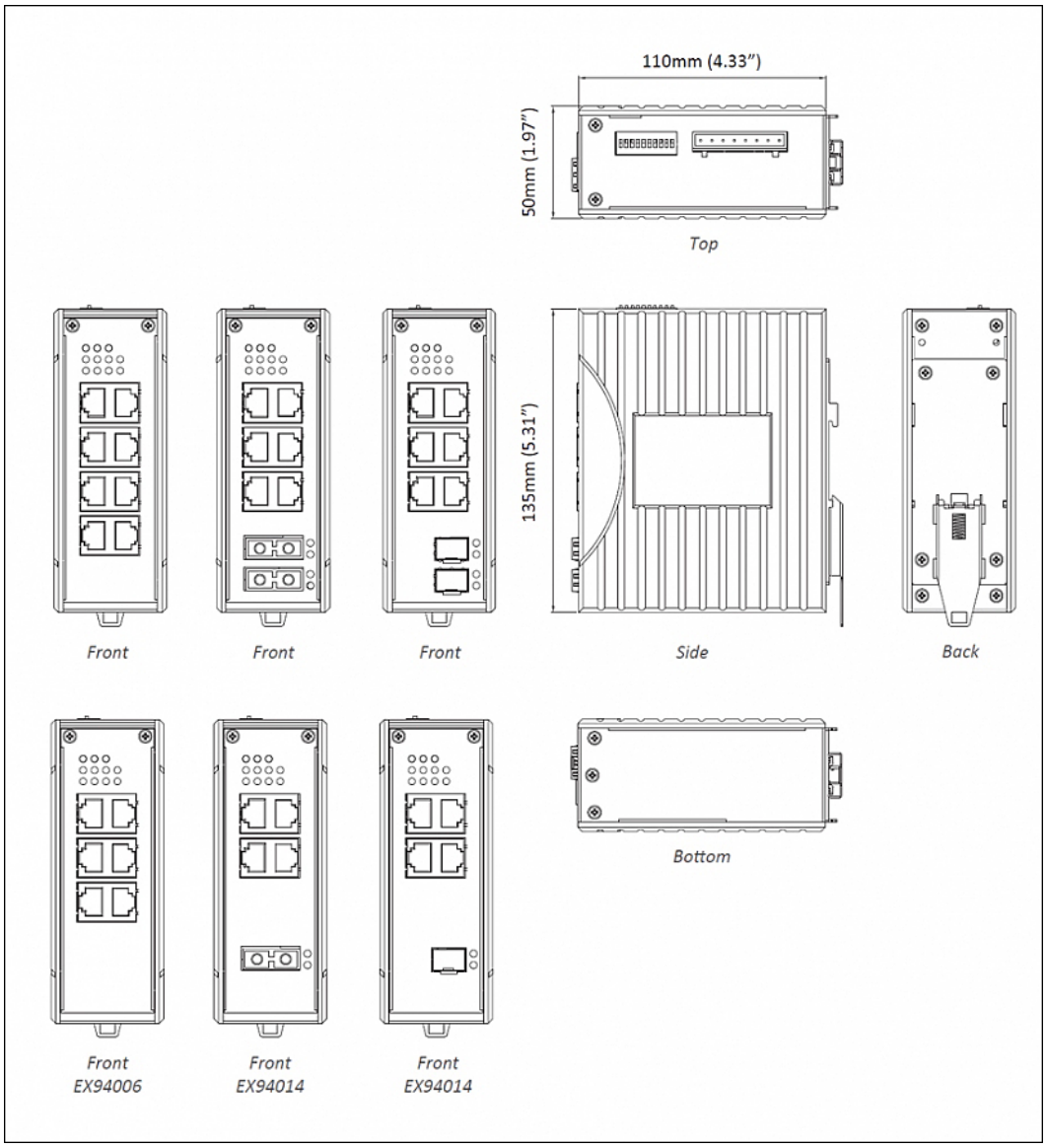
Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

FED STD 101C Method 5007.1 (Free fall w/package)
• Tested with Cross Weight and Drop High standard table

Dimensions


110mm (4.33")
50mm (1.97")
Top
135mm (5.31")
Front
Front
Front
Side
Back
Front
EX94006
Front
EX94014
Front
EX94014
Bottom

Ordering Info

Model

EX94008-00-1-AA	8-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
EX94006-00-1-AA	6-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
EX94026-XY-1-AA	6-port 10/100BASE-TX +2-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX94014-XY-1-AA	4-port 10/100BASE-TX +1-port 100BASE-FX Hardened Unmanaged Ethernet Switch

* DIN-Rail mounting kit included.

100FX Fiber Options (XY)

1A	Multi Mode (SC) - 2Km
1B	Multi Mode (ST) - 2Km
2A	Single Mode (SC) - 20Km
2D	Single Mode (ST) - 20Km
2E	Single Mode (SC) WDM-TX: 1310nm/RX: 1550nm-20Km
2G	Single Mode (SC) WDM-TX: 1550nm/RX: 1310nm-20Km
V	100BASE SFP

* More 100FX Fiber options also available upon request.

Optional Accessories

KP-AA96-480	Panel Mounting Kit
KR-BKEL900	Rack Mounting Kit
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

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