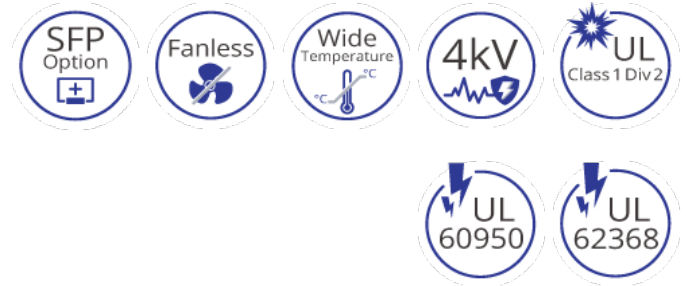


## EX94000 Series

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:  $\pm 4$ kV line-to-earth

DC power ports:

•  $\pm 4$ kV line-to-earth

•  $\pm 2$ kV line-to-line

- EN 61000-4-6 (Induced RFI)

- EN 61000-4-8 (Magnetic field)

### Safety

UL 60950

UL 62368

### Environmental Test Compliance

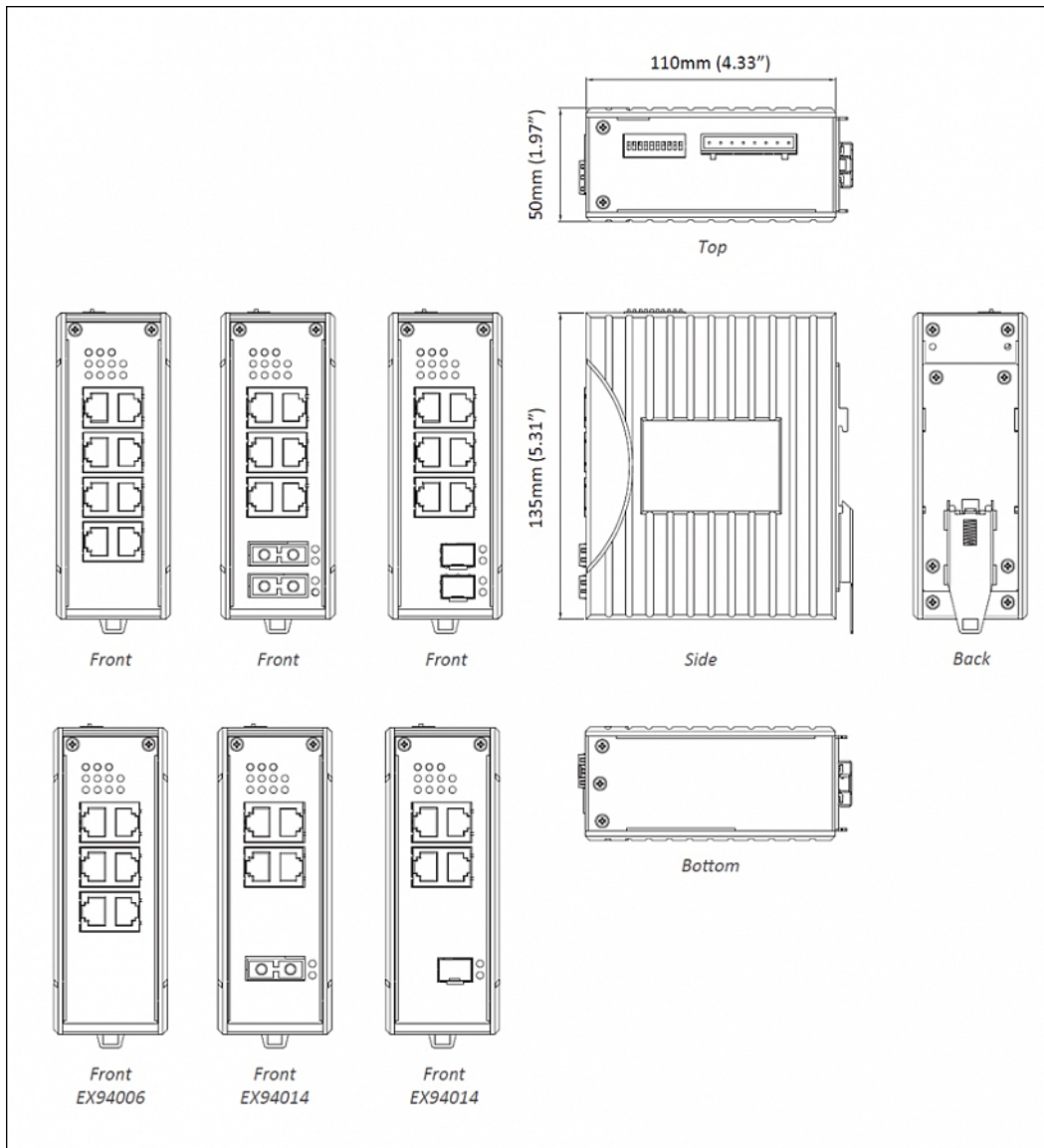
IEC 60068-2-6 Fc (Vibration)

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



## Ordering Info

### + Model

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

\* DIN-Rail mounting kit included.

### + 100FX Fiber Options (XY)

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

\* More 100FX Fiber options also available upon request.

### + Optional Accessories

|                    |   |
|--------------------|---|
| <b>KP-AA96-480</b> | Panel Mounting Kit                              |
| <b>KR-BKEL900</b>  | Rack Mounting Kit                               |
| <b>HDR-30-24</b>   | 30W/1.5A DIN-Rail 24VDC Industrial Power Supply |
| <b>HDR-60-24</b>   | 60W/2.5A DIN-Rail 24VDC Industrial Power Supply |
| <b>EDR-75-24</b>   | 75W/3.2A DIN-Rail 24VDC Industrial Power Supply |

