

# EX43000 Series

Industrial Unmanaged 8-port 10/100BASE Ethernet Switch



## Overview

EtherWAN's EX43000 Series is an industrial unmanaged Fast Ethernet switching platform, designed for easy deployment in industrial environments.

The EX43000 Series 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 EX43000 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 EX43000 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 EX43000 Series is housed with a DIN rail mountable metal compact case which is an ideal solution for network applications in harsh environments.

EtherWAN – "When Connectivity is Crucial."

## Spotlight

### • Industrial Grade

- Supports -20°C to 60°C (-4°F to 140°F) operating temperature

### • Port Failure Alarm and Broadcast Storm Protection

- Provide relay alarm to notify users when power fails or link down occurs by DIP switch
- Selectable DIP switch to set a threshold level to prevent from performance degradation or network choking

### • Fiber Connectivity

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

### • Energy Efficient Ethernet (EEE)

- Supports IEEE802.3az standard

### • High Reliability

- Fanless design
- No moving parts

# Hardware Specifications

## Technology

---

### Standards

- IEEE802.3u 100BASE-TX/FX
- IEEE802.3x full-duplex flow control
- IEEE802.3az Energy Efficient Ethernet
- IEEE802.1p 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 IEEE802.3x full-duplex flow control
- Auto MDI/MDIX

### Address Table Size

- 1K MAC addresses

## Power

---

### Input Voltage

- 12 to 48VDC (Terminal Block)

### Power Consumption

- 2.47W@24VDC

### Protection

- Reverse polarity protection

## Mechanical

---

### Casing

- Aluminum case
- IP30

### Dimensions

43.6mm (W) x 110mm (D) x 135mm (H)  
(1.74" (W) x 4.33" (D) x 5.31" (H))

### Weight

- 0.51Kg (1.12lbs)

### Installation

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

## Interface

---

### Ethernet Ports

- 10/100BASE-TX: 8 or 6 ports
- 100BASE-FX: 0 or 2 ports

### LED Indicators

- Per Unit: Power 1 (Green),  
Power 2 (Green)
- Per Port: Link/Activity (Green)

### Alarm Contact

- One relay output with current 1A @ 250VAC
- Supports normal close and normal open

## Environment

---

### Operating Temperature

- -20°C to 60°C (-4°F to 140°F)  
Tested @ -30°C to 70°C (-22°F to 158°F)

### Storage Temperature

- -40°C to 85°C (-40°F to 185°F)

### Ambient Relative Humidity

- 5% to 95% (non-condensing)

## Regulatory Approvals

---

### ISO

- Manufactured in an ISO9001 facility

### Safety

---

#### UL60950-1 (Pending)

### EMI

---

#### FCC Part 15B, Class A

#### VCCI Class A

#### EN61000-6-4

#### EN55022 Class A

### EMS

---

#### EN61000-6-2

- EN61000-4-2 (ESD Standards)
- EN61000-4-3 (Radiated RFI Standards)
- EN61000-4-4 (Burst Standards)
- EN61000-4-5 (Surge Standards)
- EN61000-4-6 (Induced RFI Standards)
- EN61000-4-8 (Magnetic Field Standards)

### Environmental Test Compliances

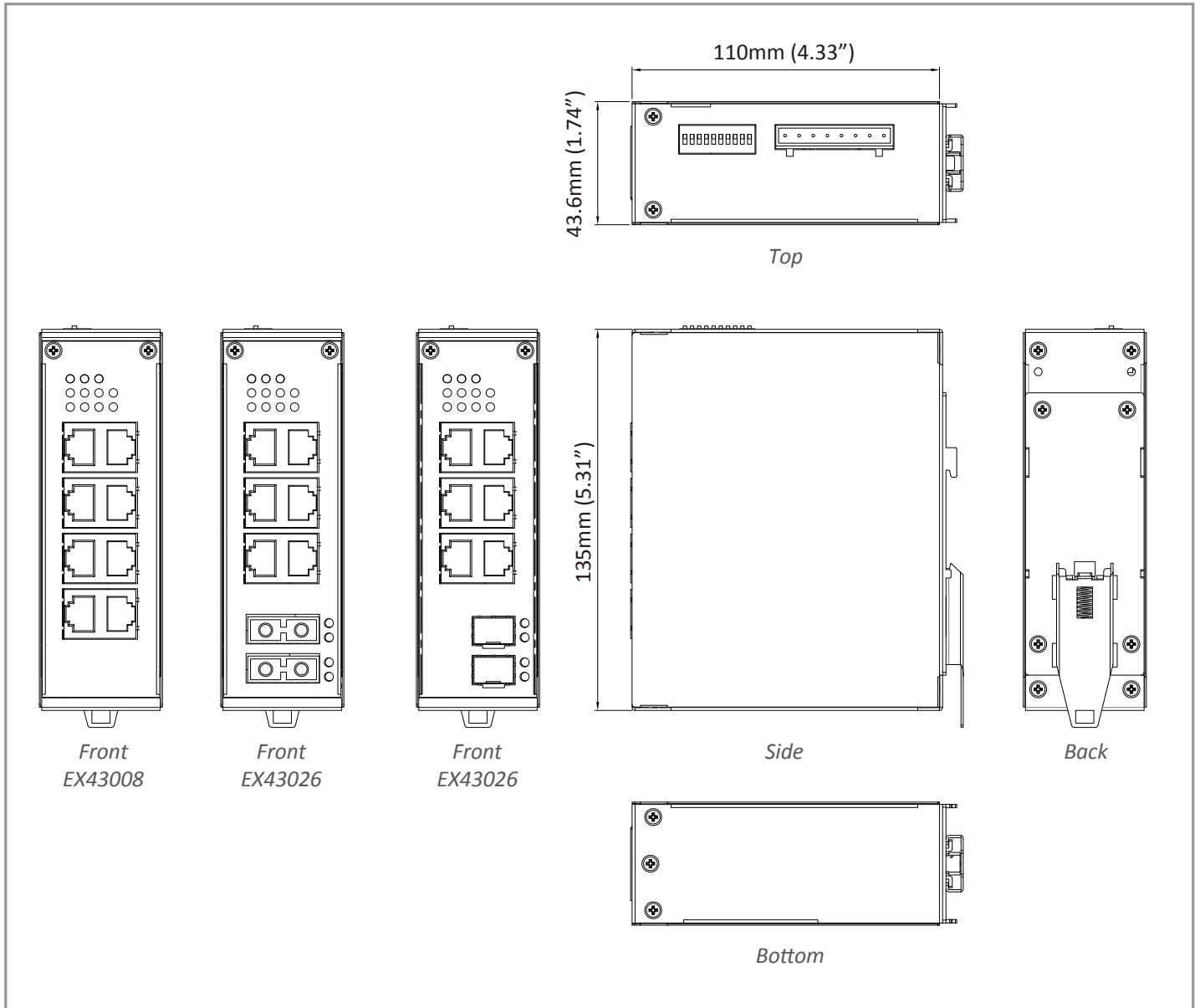
---

#### IEC60068-2-6 Fc (Vibration)

#### IEC60068-2-27 Ea (Shock)

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

# Dimensions



## Ordering Information

### Model

<b>EX43008-00-1-AA</b>	Industrial Unmanaged 8-port 10/100BASE-TX Ethernet Switch
<b>EX43026-XY-1-AA</b>	Industrial Unmanaged 6-port 10/100BASE-TX + 2-port 100BASE-FX 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>DR-30-24</b>	30W/1.5A DIN-Rail 24VDC Industrial Power Supply (for Terminal Block)
<b>DR-60-24</b>	60W/2.5A DIN-Rail 24VDC Industrial Power Supply (for Terminal Block)
<b>DR-75-24</b>	75W/3.2A DIN-Rail 24VDC Industrial Power Supply (for Terminal Block)