

## EX42000 Series

Industrial Unmanaged 4 to 5-port 10/100BASE-TX and 1-port 100BASE-FX Ethernet Switch



## Overview

EtherWAN's EX42000 Series is a compact industrial unmanaged Fast Ethernet switch, designed for easy deployment in harsh environments.

The EX42000 Series is equipped with 5 Fast Ethernet copper ports, or a combination of 4 Fast Ethernet copper ports and 1 Fast Ethernet fiber port for long distance connectivity. This switch features 10/100Mbps transfer speeds, full/half-duplex auto-negotiation, and auto MDI/MDIX operation, allowing for fast and hassle-free connection and setup.

Although unmanaged, the EX42000 is feature-rich with full wire speed Fast Ethernet throughput, QoS (Quality of Service), Broadcast storm protection, IEEE 802.3az EEE (Energy Efficient Ethernet), and 4 kV surge protection. The EX42000 can be DIN rail mounted, and its compact size makes it an ideal solution for factory floors, warehouses, and locations without climate control.

EtherWAN — "When Connectivity is Crucial."

## Spotlight

### Industrial Grade

- » Supports -10 to 60°C (14 to 140°F) operating temperature
- » Supports DIN-Rail mounting

### Fiber Connectivity

- » Up to one 100BASE-FX port with SC and ST options

### 4kV Surge Protection on Data port

- » Augmented 4 kV surge protection in accordance with EN 61000-4-5

### Broadcast Storm Protection Threshold

- » 30 Frames / 10ms for 100Mbps
- » 30 Frames / 100ms for 10Mbps

# 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

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## Power

### Input Voltage

- Terminal block: 12 to 48VDC

### Power Consumption

- 1.82W Max. 0.14A@12VDC, 0.07A@24VDC, 0.038A@48VDC

### Protection

- Reverse polarity protection
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## Mechanical

### Casing

- Plastic case
- IP30

### Dimensions

- 26 x 70 x 110mm (W x D x H)  
(1.02" x 2.76" x 4.33")

### Weight

- 0.2Kg (0.44lbs.)

### Installation

- DIN-Rail (Top hat type 35mm)
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## Interface

### Ethernet Ports

- 10/100BASE-TX: 5 or 4 ports
- 100BASE-FX: 0 or 1 port

### LED Indicators

- Per Unit: Power (Green)
  - Per Port: Link/Activity (Green), Speed (Yellow)
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## Environment

### Operating Temperature

- -10 to 60°C (14 to 140°F)  
Tested @ -20 to 70°C (-4 to 158°F)

### Storage Temperature

- -40 to 85°C (-40 to 185°F)

### Ambient Relative Humidity

- 5% to 95% (non-condensing)
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## Regulatory Approvals

### ISO

- Manufactured in an ISO 9001 facility

### Safety

UL 62368

### EMI

FCC Part 15B, Class A

VCCI Class A

EN 61000-3-2

EN 61000-3-3

EN 61000-6-4

### EMS

EN 61000-6-2

- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated RFI Standards)
- EN 61000-4-4 (Burst Standards)
- EN 61000-4-5 (Surge Standards)  
Signal ports:  $\pm 4\text{kV}$  line-to-ground
- EN 61000-4-6 (Induced RFI Standards)
- EN 61000-4-8 (Magnetic Field Standards)

### Environmental Test Compliances

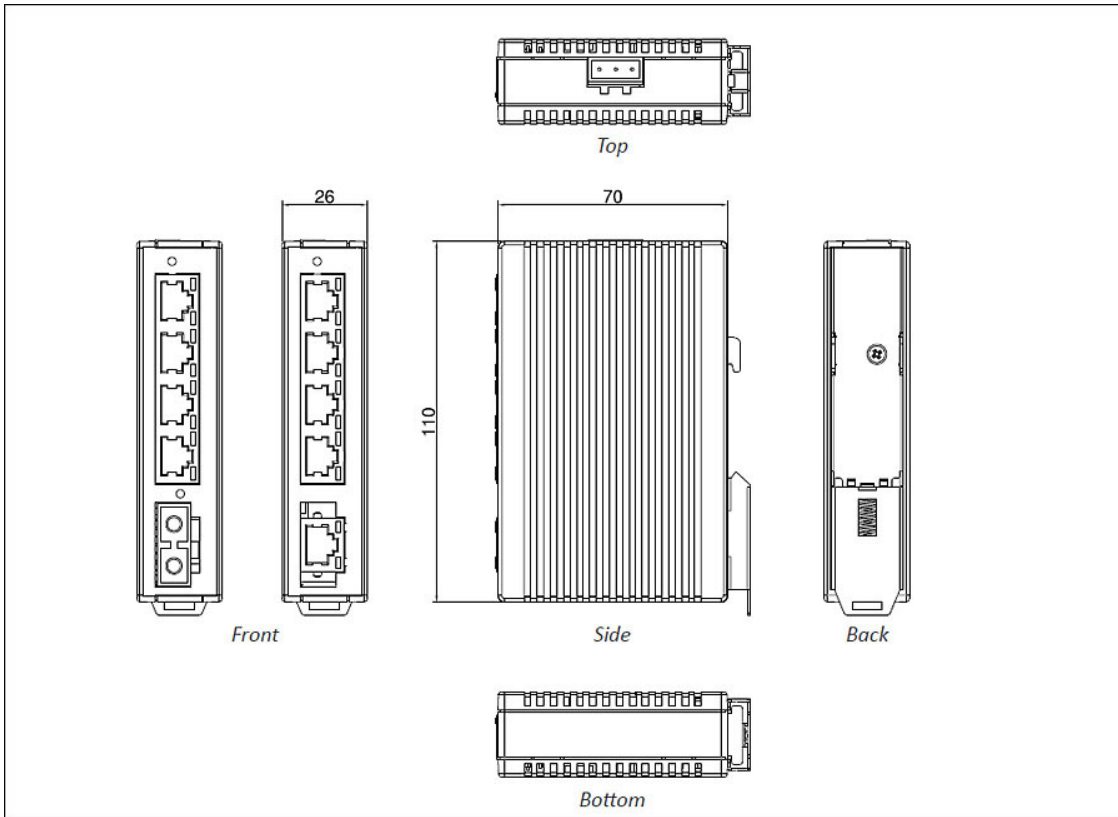
IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

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

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## Dimensions



## Ordering Info

### Model

<b>EX42005-00-1-A</b>	5-port 10/100BASE-TX Industrial Unmanaged Ethernet Switch with 4kV surge protection
<b>EX42014-XY-1-A</b>	4-port 10/100BASE-TX +1-port 100BASE-FX Industrial Unmanaged Ethernet Switch with 4kV surge protection

\* 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

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

### Optional Accessories

<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
<b>EX41-145046-X</b>	Power Supply 45W 12VDC with Open Wire (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA

