

# EX42000 Series

Industrial Unmanaged 5-port 10/100BASE Ethernet Switch



## Overview

EtherWAN's EX42000 Series is a compact Industrial Unmanaged Fast Ethernet switching platform, 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 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.

Although unmanaged, the EX42000 is feature-rich with full wire speed Fast Ethernet throughput, QoS (Quality of Service), and IEEE802.3az EEE (Energy Efficient Ethernet). The EX42000 can be DIN rail mounted and features a compact casing that can be an ideal solution for factory floors, warehouses, and outdoor locations without temperature control.

EtherWAN – “When Connectivity is Crucial.”

## Spotlight

### • Industrial Grade

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

### • Fiber Connectivity

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

# Hardware Specifications

## Technology

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### 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

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### Input Voltage

- Terminal block: 12 to 48VDC

### Power Consumption

- 2.12W Max. 0.17A @ 12VDC, 0.08A @ 24VDC, 0.04A @ 48VDC

### Protection

- Reverse polarity protection

## Mechanical

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### Casing

- Plastic case
- IP30

### Dimensions

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

### Weight

- 0.2Kg (0.44lbs.)

### Installation

- DIN-Rail (Top hat type 35mm)

## Interface

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### 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)

## Environment

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### Operating Temperature

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

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### ISO

- Manufactured in an ISO9001 facility

### Safety

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#### UL60950

### EMI

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#### FCC Part 15B, Class A

#### VCCI Class A

#### EN61000-6-4

### EMS

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#### 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

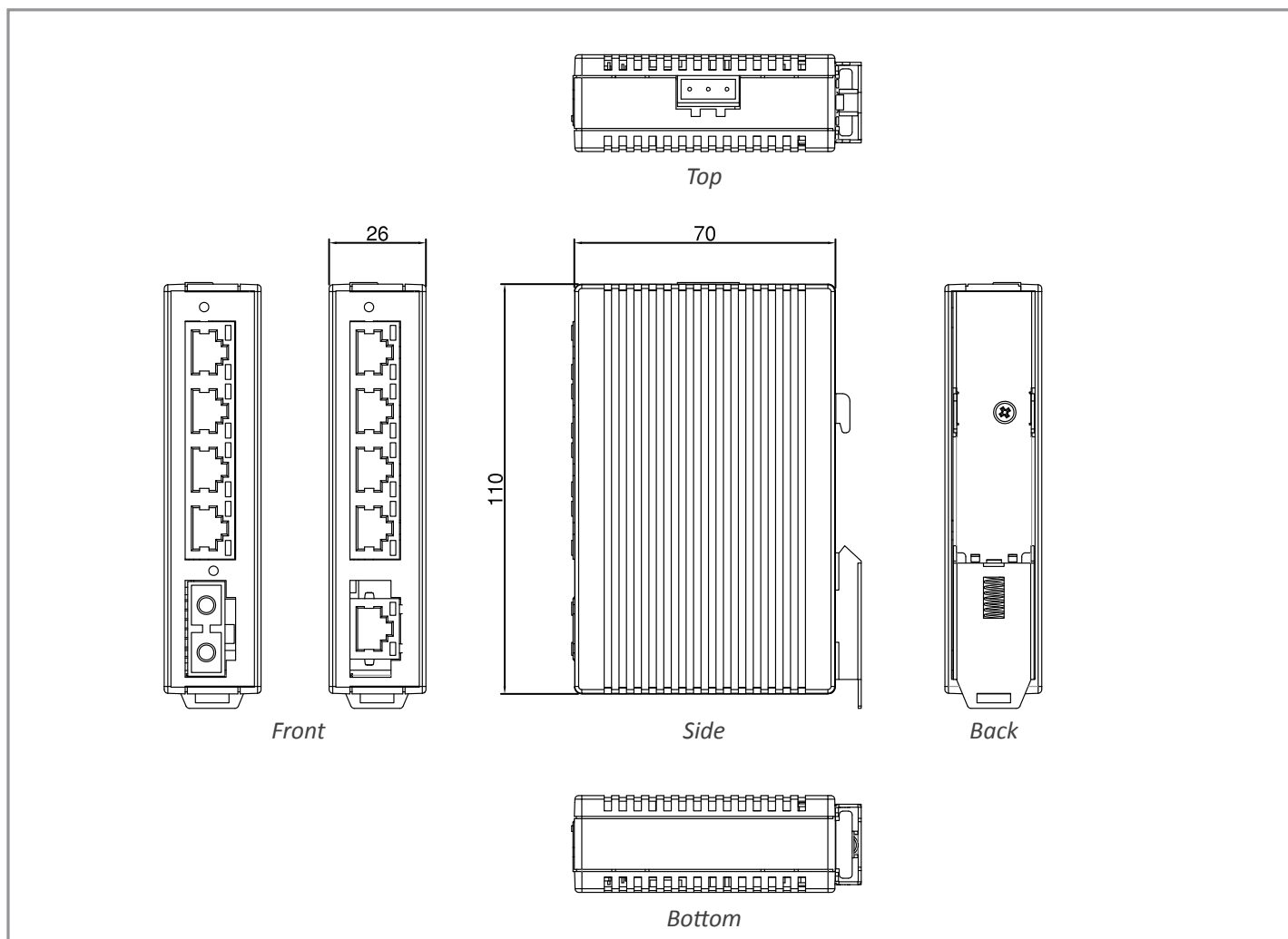
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#### IEC60068-2-6 Fc (Vibration)

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

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

## Dimensions



## Ordering Information

### Model

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

\* More 100FX fiber options also available upon request

## Ordering Information - continued

### Optional Accessories

<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)
<b>DR-120-24</b>	120W/5A DIN-Rail 24VDC Industrial Power Supply (for Terminal Block)
<b>41-136046-X</b>	36W/3A 12VDC hardened power adapter with open wire in aluminum housing (for Terminal Block) (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA