

# EX48000A Series

Hardened Unmanaged 5-port 10/100BASE PoE (4 x PoE)  
Ethernet Switch



## Overview

EtherWAN's EX48000A Series provides a hardened 5-port switching platform supporting IEEE802.3af Power over Ethernet, high performance switching with robust features required for mission-critical and harsh environments where sustained connectivity is crucial.

The EX48000A Series is equipped with four 10/100BASE-TX PoE ports, in combination with one 100FX Fiber option. The IEEE802.3af PoE ports provide up to 15.4W/port with a total power budget of 61.6W, making the switch truly versatile for connecting with PoE Powered Devices (PD) with different bandwidth and power consumption requirements.

The EX48000A Series is designed to operate at -40°C to 75°C in harsh environments, where high ESD, shock, and vibration may be present.

EtherWAN — "When Connectivity is Crucial."

## Spotlight

### • Hardened Grade

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

### • PoE Connectivity

- Port 1 to 4 supports IEEE802.3af Power over Ethernet

### • Fiber Connectivity

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

# Hardware Specifications

## Technology

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### Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3af Power over Ethernet
- IEEE802.3x Full duplex and flow control

### Forward and Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

### Packet Buffer Memory

- 512K 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

- 1024 MAC addresses

## Power

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### Input

- Redundant power inputs:  
Terminal Block: 47 - 57VDC  
DC Jack: 47 - 57VDC

### Power Consumption

- Device: Max. 10W (without PoE)
- PoE power budget (depends on power input): 61.6W Max.

### PoE Technology

- Alternative B  
Pins 7/8(+), 4/5(-)

### PoE Power Output

- Port 1 to 4
- IEEE802.3af: up to 15.4W/port, 47 - 55VDC, 350mA Max.

### Protection

- Reverse polarity protection

## Mechanical

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### Casing

- Metal case
- IP30

### Dimensions

- 200mm (W) x 134.3mm (D) x 35mm (H)  
(7.87" (W) x 5.29" (D) x 1.38" (H))

### Weight

- 0.8Kg (1.76lbs.)

### Installation

- Desktop, Wall or DIN-Rail mounting

## Interface

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### Ethernet Ports

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

### LED Indicators

- Per Unit: Power 1 (Green),  
Power 2 (Green),  
Power 3 (Green),  
Fault (Red)

- Per Port: Link/Activity (Green)

### Alarm Contact

- One relay output with current 1A @ 250VAC

## Environment

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### Operating Temperature

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

### EMI

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#### 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

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#### EN 61000-6-2

- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated FRI Standards)
- EN 61000-4-4 (Burst Standards)
- EN 61000-4-5 (Surge Standards)
- EN 61000-4-6 (Induced RFI Standards)
- EN 61000-4-8 (Magnetic Field Standards)

### Environmental Test Compliances

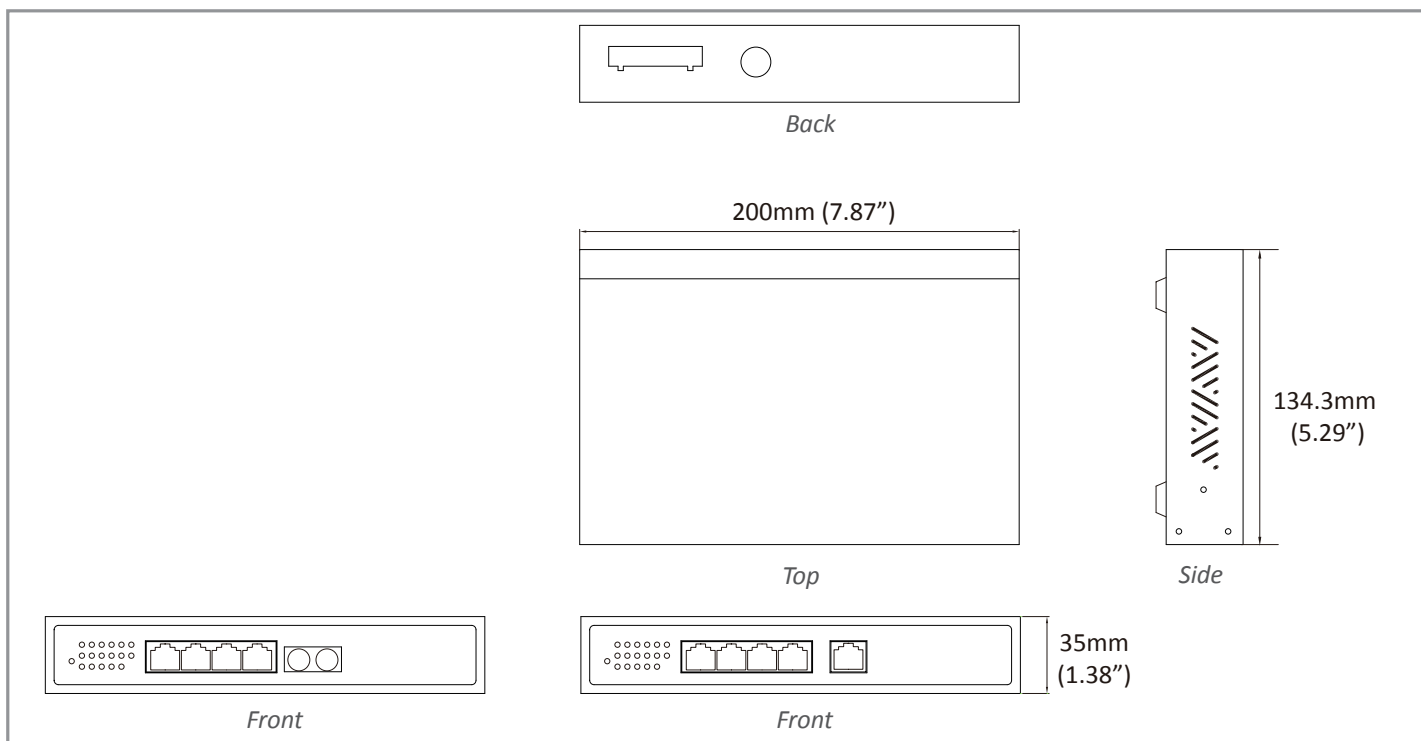
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#### IEC 60068-2-6 Fc (Vibration)

#### IEC 60068-2-27 Ea (Shock)

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

## Dimensions



## Ordering Information

### Model

<b>EX48050A-00B</b>	Hardened Unmanaged 5-port 10/100BASE-TX PoE Ethernet Switch
<b>EX48041A-X0B</b>	Hardened Unmanaged 4-port 10/100BASE-TX + 1-port 100BASE-FX PoE Ethernet Switch

\* DIN-Rail mounting kit included

### 100FX Fiber Options (X)

<b>1</b>	Multi Mode (SC) - 2Km
<b>2</b>	Multi Mode (ST) - 2Km
<b>6</b>	Multi Mode (SC) WDM-TX:1310nm/RX:1550nm - 2Km
<b>7</b>	Multi Mode (SC) WDM-TX:1550nm/RX:1310nm - 2Km
<b>8</b>	Multi Mode (SC) WDM-TX:1310nm/RX:1550nm - 5Km
<b>9</b>	Multi Mode (SC) WDM-TX:1550nm/RX:1310nm - 5Km
<b>A</b>	Single Mode (SC) - 20Km
<b>B</b>	Single Mode (SC) - 40Km
<b>H</b>	Single Mode (ST) - 20Km
<b>P</b>	Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 20Km
<b>Q</b>	Single Mode (SC) WDM-TX:1550nm/RX:1310nm - 20Km
<b>R</b>	Single Mode (SC) WDM-TX:1310nm/RX:1550nm - 40Km
<b>S</b>	Single Mode (SC) WDM-TX:1550nm/RX:1310nm - 40Km

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

### Optional Accessories

<b>KD-AA78000X</b>	DIN-Rail Mounting Kit
<b>DR-120-48</b>	120W/2.5A DIN-Rail 48VDC Industrial Power Supply (for terminal block)
<b>SDR-240-48</b>	240W/5A DIN-Rail 48VDC Industrial Power Supply (for terminal block)
<b>GS-120A-48</b>	120W/2.5A 48VDC Power Adapter with Latched DC Jack in Plastic Housing