

# EX33000 Series

Industrial Unmanaged 14 to 16-port 10/100BASE-TX and 2-port 100BASE-FX Ethernet Switch



## Overview

EtherWAN's EX33000 Series is an industrial unmanaged Fast Ethernet switching platform, designed for easy deployment in harsh environments.

The EX33000 Series is equipped with sixteen Fast Ethernet ports, or a combination of Fast Ethernet copper ports and two 100FX ports for long distance connectivity. Although unmanaged, the EX33000 is feature rich with full wire speed Fast Ethernet throughput, making the EX33000 Series a powerful network switch.

EtherWAN — "When Connectivity is Crucial."

## Spotlight

### + Industrial Grade

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

### + Fiber Connectivity

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

### + Versatile mounting Options

Supports DIN-Rail, panel and rack mounting

# Specifications

## + Technology

### Standards

IEEE 802.3, 10BASE-T  
IEEE 802.3u 100BASE-TX/100BASE-FX  
IEEE 802.3x Full duplex and flow control

### Forward/Filtering Rate

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

### Packet Buffer Memory

1.625M 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

4096 MAC addresses

### Latency

Less than 10 $\mu$ s

## + Interface

### Ethernet Ports

10/100BASE-TX: 16, 15 or 14 ports  
100BASE-FX: 0, 1 or 2 ports

### LED Indicators

Per Unit: Power 1 (Green), Power 2 (Green), Power 3 (Green)

Per Port: Link/Act

### Alarm Contact

One relay output with current 1A@24VDC

## + 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)

## + Power

### Input

Redundant power inputs:  
12 to 48VDC (Terminal Block),  
12VDC (DC Jack)

### Power Consumption

7.4W Max. 0.6A@12VDC, 0.3A@24VDC,  
0.15A@48VDC

## + Mechanical

### Casing

Aluminum Case

### IP Rating

IP30

### Dimensions

69 x 110 x 135mm (W x D x H) (2.72" x 4.33" x  
5.31")

### Weight

0.87Kg (1.92lbs.)

### Installation

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

## + Regulatory Approvals

### ISO

Manufactured in ISO-9001 facility

### EMI

FCC Part 15B Class A

VCCI Class A

EN 61000-6-4

EN 55022

EN 61000-3-2

EN 61000-3-3

### 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)

- EN 61000-4-6 (Induced RFI)

- EN 61000-4-8 (Magnetic field)

### Safety

UL 508

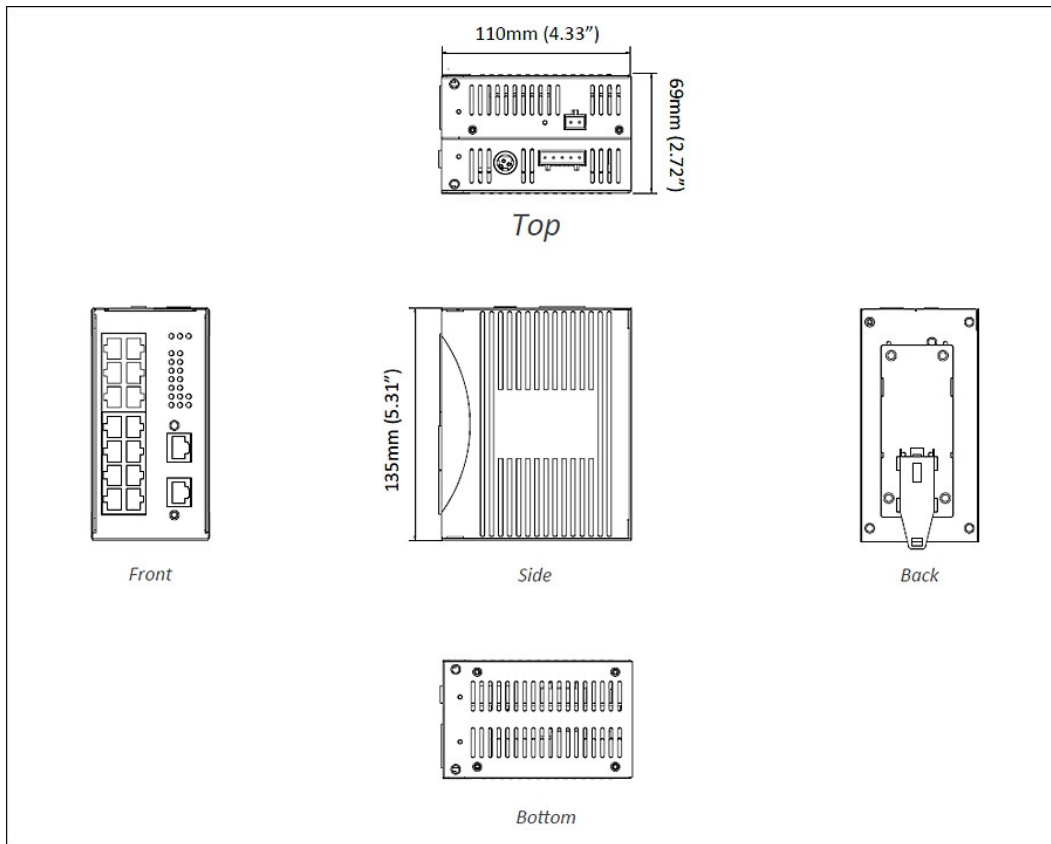
### Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

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

# Dimensions



## Ordering Info

### + Model

<b>EX33160-00B</b>	16-port 10/100BASE-TX Industrial Unmanaged Ethernet Switch
<b>EX33151-X0B</b>	15-port 10/100BASE-TX +1-port 100BASE-FX Industrial Unmanaged Ethernet Switch
<b>EX33142-X0B</b>	14-port 10/100BASE-TX +2-port 100BASE-FX Industrial Unmanaged 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

### + Optional Accessories

<b>KP-AA96-480</b>	Panel Mounting Kit
<b>KR-BK-43-400</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
<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
<b>EX41-145044-X</b>	Power Supply 45W 12VDC with Latch (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA

