

# EX32900 Series

Industrial Unmanaged 5/8-port 10/100/1000BASE Gigabit Ethernet Switch



## Overview

EtherWAN's EX32900 Series is a compact industrial Unmanaged Gigabit switching platform, designed for easy deployment in harsh environments.

The EX32900 Series is equipped with five or eight Gigabit Ethernet ports, or a combination of Gigabit copper ports and one Gigabit fiber port for long distance connectivity. Although unmanaged, the EX32900 is feature-rich with Jumbo Frame support, full wire speed Gigabit throughput, QoS support and eco-friendly IEEE802.3az EEE (Energy Efficient Ethernet) compliant, making the EX32900 Series a powerful yet energy efficient network switch.

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

### • Jumbo Frame Support

- Up to 10K bytes (EX32905/EX32914 Series)
- Up to 9720 bytes (EX32908/EX32917 Series)

### • Fiber Connectivity

- Up to one 1000BASE-SX port with SC and ST options

### • High Reliability

- Fanless Design
- No moving parts

# Hardware Specifications

## Technology

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### Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3ab 1000BASE-T
- IEEE802.3z 1000BASE-SX/1000BASE-LX
- 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
- 1,488,100pps for 1000Mbps

### Packet Buffer Memory

- EX31905/EX32914: 1M bits
- EX32908/EX32917: 192KB

### Processing Type

- Store-and-Forward
- Auto Negotiation
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control
- Auto MDI/MDIX

### Jumbo Frame

- EX32905/EX32914: 10K bytes
- EX32908/EX32917: 9720 bytes

### Address Table Size

- EX32905/EX32914: 8K MAC addresses
- EX32908/EX32917: 4K MAC addresses

## Power

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### Input Voltage

- 12 to 48VDC

### Power Consumption

- 6.5W Max. 0.25A @ 24VDC

### Protection

- Reverse polarity protection

## Mechanical

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### Casing

- Plastic case
- IP30

### Dimensions

- EX32905/EX32914:  
26mm (W) x 76.5mm (D) x 114mm (H)  
(1.02" (W) x 3.06" (D) x 4.33" (H))
- EX32908/EX32917:  
35mm (W) x 86mm (D) x 149mm (H)  
(1.4" (W) x 3.44" (D) x 5.96" (H))

### Weight

- EX32905/EX32914: 0.2Kg (0.44lb.)
- EX32908/EX32917: 0.3Kg (0.66lb.)

### Installation

- DIN-Rail (Top hat type 35mm)

## Interface

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### Ethernet Ports

- EX32905/EX32914:  
10/100/1000BASE-T: 5 or 4 ports  
1000BASE-X: 0 or 1 ports
- EX32908/EX32917:  
10/100/1000BASE-T: 8 or 7 ports  
1000BASE-X: 0 or 1 ports

### LED Indicators

- EX32905/EX32914:  
Per Unit: Power (Green)  
Per Port: 10/100M(Green),  
1000M (Yellow)
- EX32908/EX32917:  
Per Unit: Power 1 (Green),  
Power 2 (Green),  
Alarm (Red)  
Per Port: 10/100M(Green),  
1000M (Yellow)

### Alarm Contact (EX32908/EX32917 only)

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

## 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** (EX32905/EX32914 Series only)

### EMI

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**FCC Part 15B, Class A**

**VCCI Class A**

**EN61000-6-4**

**EN55022 Class A**

### 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

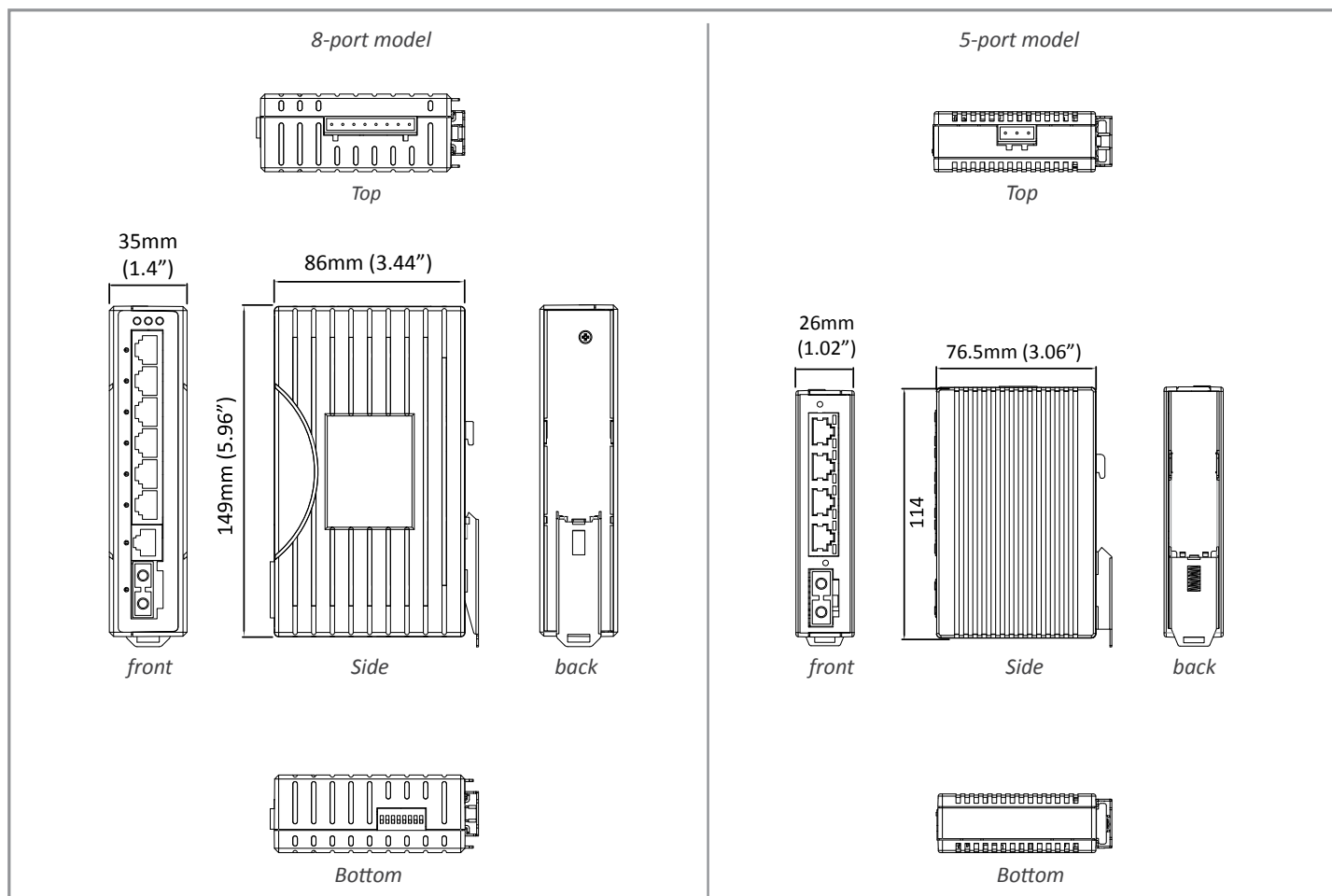
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**IEC60068-2-6 Fc (Vibration)**

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

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

## Dimensions



## Ordering Information

### Model

<b>EX32905</b>	Industrial Unmanaged 5-port 10/100/1000BASE-T Gigabit Ethernet Switch
<b>EX32914-X</b>	Industrial Unmanaged 4-port 10/100/1000BASE-T+ 1-port 1000BASE-X Gigabit Ethernet Switch
<b>EX32908</b>	Industrial Unmanaged 8-port 10/100/1000BASE-T Gigabit Ethernet Switch
<b>EX32917-X</b>	Industrial Unmanaged 7-port 10/100/1000BASE-T+ 1-port 1000BASE-X Gigabit Ethernet Switch

\* DIN-Rail mounting kit included

### Optical Port Options (X)

<b>3</b>	1000BASE-SX(SC)-550m
<b>5</b>	1000BASE-SX(ST)-550m
<b>A</b>	1000BASE-LX(SC)-10km
<b>R</b>	1000BASE-BX(SC) WDM-TX:1310nm/RX:1550nm-20Km
<b>S</b>	1000BASE-BX(SC) WDM-TX:1550nm/RX:1310nm-20Km

### 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