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

Standards
- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3ab 1000BASE-T
- IEEE802.3z 1000BASE-SX/1000BASE-LX
- IEEE802.1x, Full duplex flow control
- IEEE802.1az 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

Input Voltage
- 12 to 48VDC

Power Consumption
- 6.5W Max. 0.25A @ 24VDC

Protection
- Reverse polarity protection
- Overload current protection

Mechanical

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

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

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

ISO
- Manufactured in an ISO9001 facility

Safety

UL60950 (EX32905/EX32914 Series only)

EMI

FCC Part 15B, Class A

VCCI Class A

EN61000-6-4

EN55022 Class A

EMS

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)
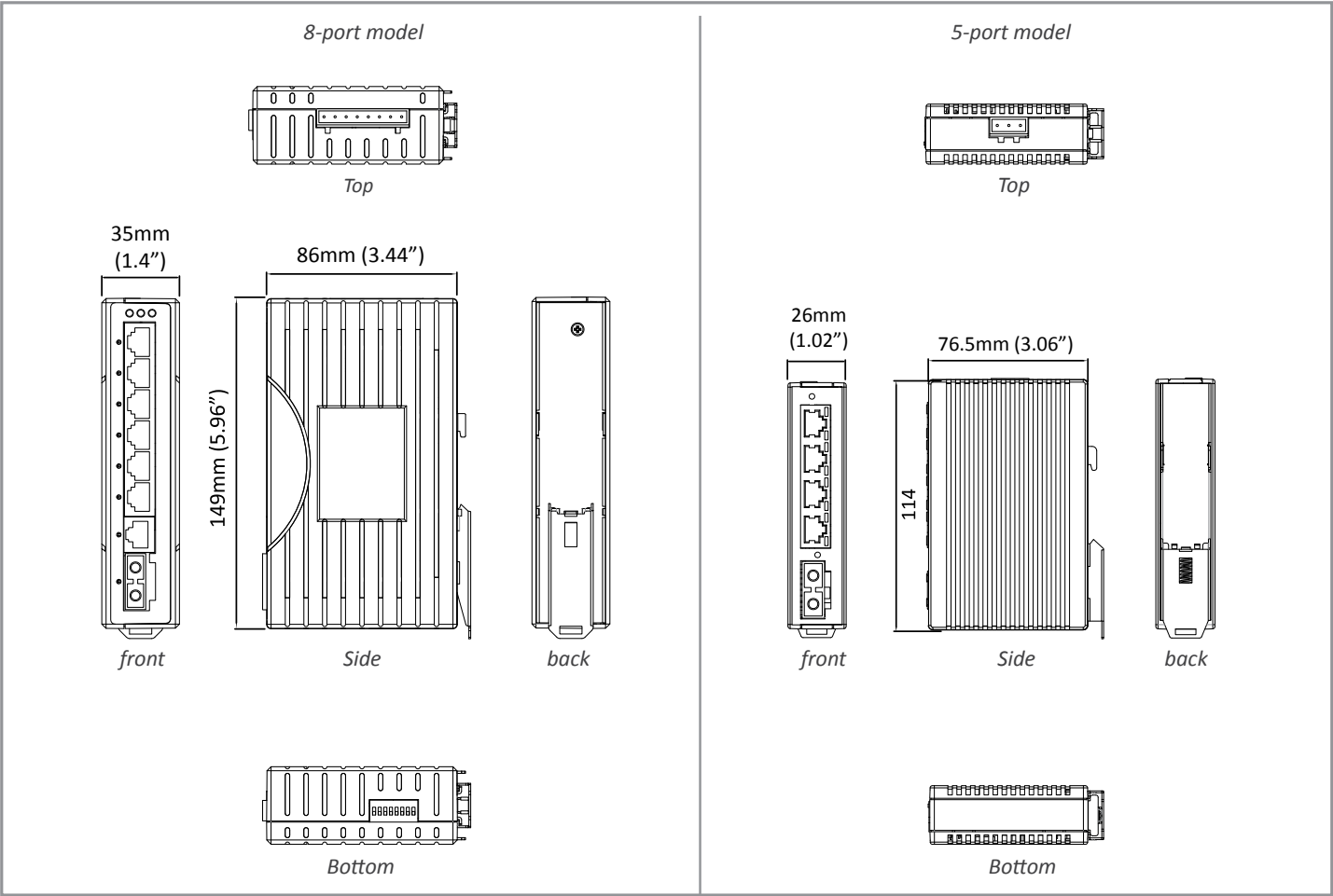- EN61000-4-8 (Magnetic Field Standards)

Environmental Test Compliances

IEC60068-2-6 Fc (Vibration)

IEC60068-2-27 Ea (Shock)

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

Dimensions

8-port model

Top

35mm (1.4")

86mm (3.44")

149mm (5.96")

front   Side   back

Bottom

5-port model

Top

26mm (1.02")

76.5mm (3.06")

114

front   Side   back

Bottom

Ordering Information

Model

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

* DIN-Rail mounting kit included

Optical Port Options (X)

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

Optional Accessories

DR-30-24	30W/1.5A DIN-Rail 24VDC Industrial Power Supply (for Terminal Block)
DR-60-24	60W/2.5A DIN-Rail 24VDC Industrial Power Supply (for Terminal Block)
DR-75-24	75W/3.2A DIN-Rail 24VDC Industrial Power Supply (for Terminal Block)
DR-120-24	120W/5A DIN-Rail 24VDC Industrial Power Supply (for Terminal Block)
41-136046-X	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