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)
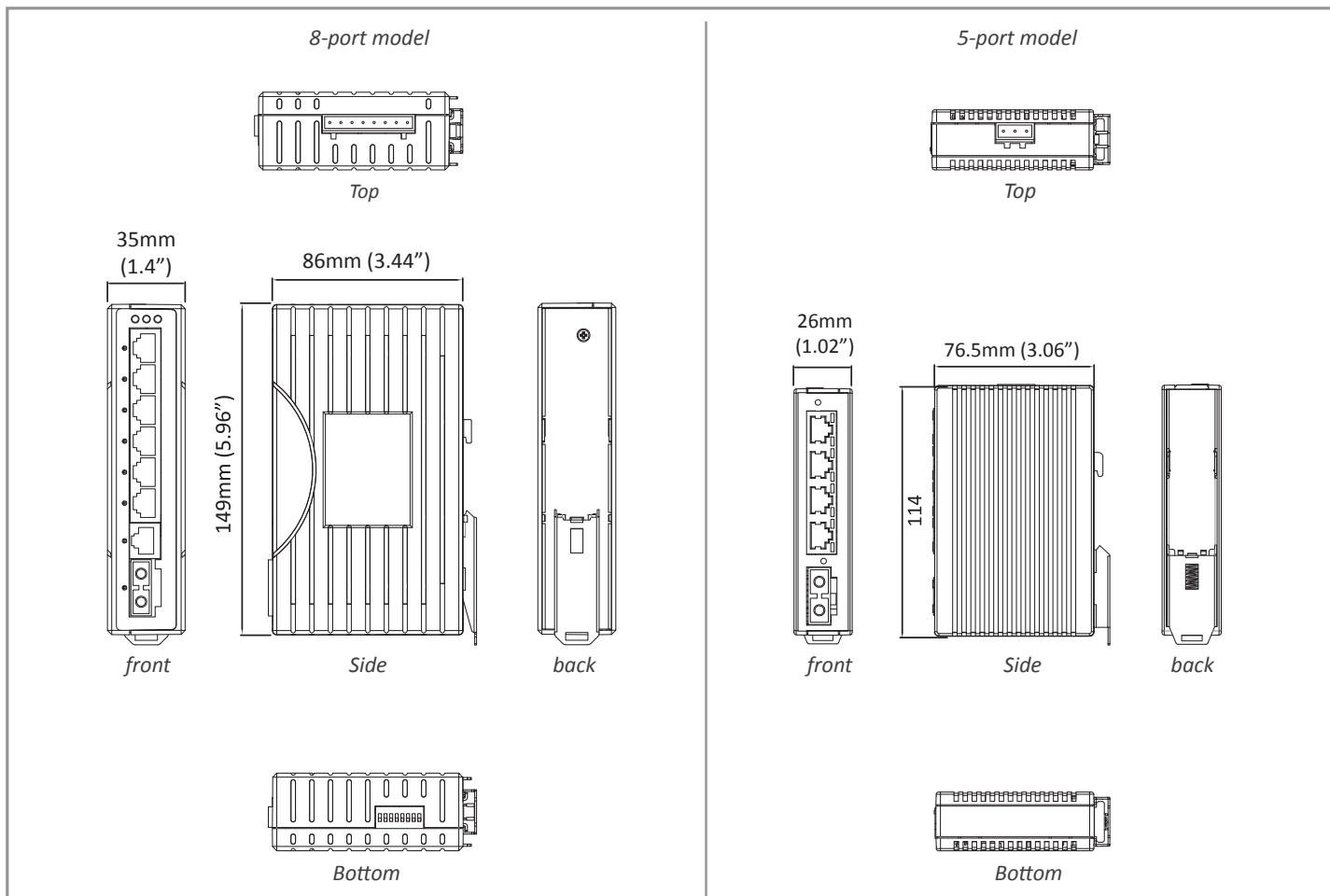
Environmental Test Compliances

IEC60068-2-6 Fc (Vibration)

IEC60068-2-27 Ea (Shock)

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

Dimensions

8-port model	5-port model

8-port model
Top / front / Side / back / Bottom
35mm (1.4") · 86mm (3.44") · 149mm (5.96")

5-port model
Top / front / Side / back / Bottom
26mm (1.02") · 76.5mm (3.06") · 114

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