

EX42000 Series

Industrial Unmanaged 5-port 10/100BASE Ethernet Switch



Overview

EtherWAN's EX42000 Series is a compact industrial unmanaged Fast Ethernet switch, designed for easy deployment in harsh environments.

The EX42000 Series is equipped with 5 Fast Ethernet copper ports, or a combination of 4 Fast Ethernet copper ports and 1 Fast Ethernet fiber port for long distance connectivity. This switch features 10/100Mbps transfer speeds, full/half-duplex auto-negotiation, and auto MDI/MDIX operation, allowing for fast and hassle-free connection and setup.

Although unmanaged, the EX42000 is feature-rich with full wire speed Fast Ethernet throughput, QoS (Quality of Service), Broadcast storm protection, IEEE802.3az EEE (Energy Efficient Ethernet), and 4 kV surge protection. The EX42000 can be DIN rail mounted, and its compact size makes it an ideal solution for factory floors, warehouses, and locations without climate control.

EtherWAN – “When Connectivity is Crucial.”

Spotlight

• Industrial Grade

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

• Fiber Connectivity

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

• 4 kV Surge Protection on Data port

- Augmented 4 kV surge protection in accordance with EN 61000-4-5

• Broadcast Storm Protection Threshold

- 30 Frames / 10ms for 100Mbps
- 30 Frames / 100ms for 10Mbps

Hardware Specifications

Technology

Standards

- IEEE802.3u 100BASE-TX/FX
- 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

Packet Buffer Memory

- 448K 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

- 1K MAC addresses

Power

Input Voltage

- Terminal block: 12 to 48VDC

Power Consumption

- 1.82W Max. 0.14A@12VDC, 0.07A@24VDC, 0.038A@48VDC

Protection

- Reverse polarity protection

Mechanical

Casing

- Plastic case
- IP30

Dimensions

- 26 x 70 x 110mm (W x D x H)
(1.02" x 2.76" x 4.33")

Weight

- 0.2Kg (0.44lbs.)

Installation

- DIN-Rail (Top hat type 35mm)

Interface

Ethernet Ports

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

LED Indicators

- Per Unit: Power (Green)
- Per Port: Link/Activity (Green),
Speed (Yellow)

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)

Regulatory Approvals

ISO

- Manufactured in an ISO 9001 facility

Safety

UL 62368

EMI

FCC Part 15B, Class A

VCCI Class A

EN 61000-6-4

EN 61000-3-2

EN 61000-3-3

EMS

EN 61000-6-2

- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated RFI Standards)
- EN 61000-4-4 (Burst Standards)
- EN 61000-4-5 (Surge Standards)
Signal ports: ± 4 kV line-to-ground
- EN 61000-4-6 (Induced RFI Standards)
- EN 61000-4-8 (Magnetic Field Standards)

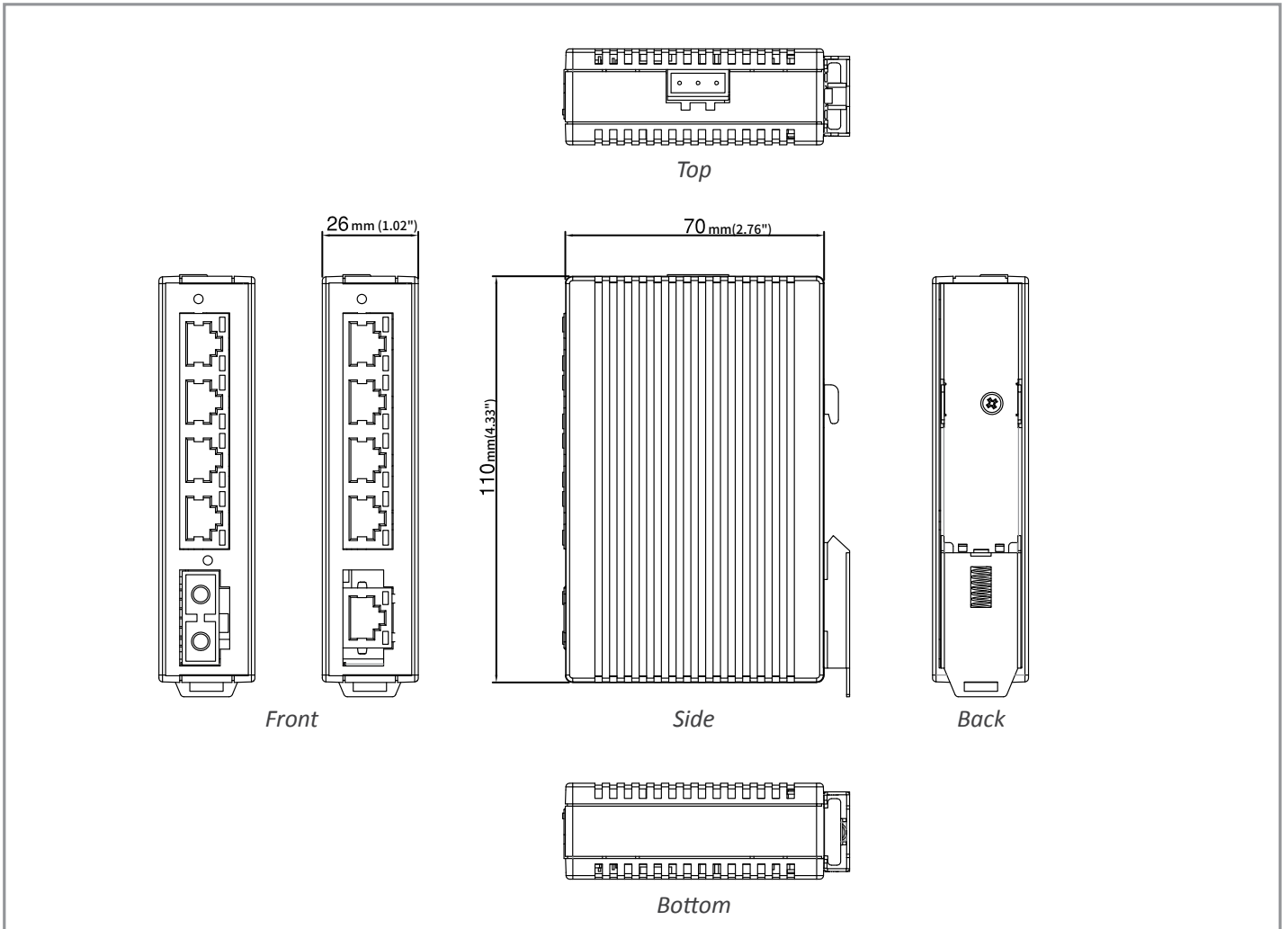
Environmental Test Compliances

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

EX42005-00-1-A	Industrial Unmanaged 5-port 10/100BASE-TX Ethernet Switch with 4 kV surge protection
EX42014-XY-1-A	Industrial Unmanaged 4-port 10/100BASE-TX + 1-port 100BASE-FX Ethernet Switch with 4 kV surge protection

* DIN-Rail mounting kit included

100FX Fiber Options (XY)

1A	Multi Mode (SC) - 2Km
1B	Multi Mode (ST) - 2Km
2A	Single Mode (SC) - 20Km
2D	Single Mode (ST) - 20Km
2E	Single Mode (SC) WDM-TX: 1310nm/RX:1550nm - 20Km
2G	Single Mode (SC) WDM-TX: 1550nm/RX:1310nm - 20Km

* More 100FX fiber options also available upon request

Ordering Information - continued

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