

EX42000 Series

Industrial Unmanaged 4 to 5-port 10/100BASE-TX and 1-port 100BASE-FX 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, IEEE 802.3az 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

+ 4kV 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

Specifications

+ Technology

Standards

IEEE 802.3u 100BASE-TX/FX
IEEE 802.3x full-duplex flow control
IEEE 802.3az Energy Efficient Ethernet
IEEE 802.1p Quality of Service (QoS)

Forward/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 IEEE 802.3x full-duplex flow control
Auto MDI/MDIX

Address Table Size

1K MAC addresses

+ Power

Input

12-48VDC (Terminal Block)

Power Consumption

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

Protection

Reverse Polarity Protection

+ Physical

Casing Material

Plastic Case

IP Rating

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 Type

DIN-Rail (Top hat type 35mm)

+ Interface

Ethernet

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)

+ Environmental

Operating Temp.

-10 to 60°C (14 to 140°F)

Storage Temp.

-40 to 85°C (-40 to 185°F)

Ambient Relative Humidity

5% to 95% (non-condensing)

+ Regulatory

ISO

Manufactured in ISO-9001 facility

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

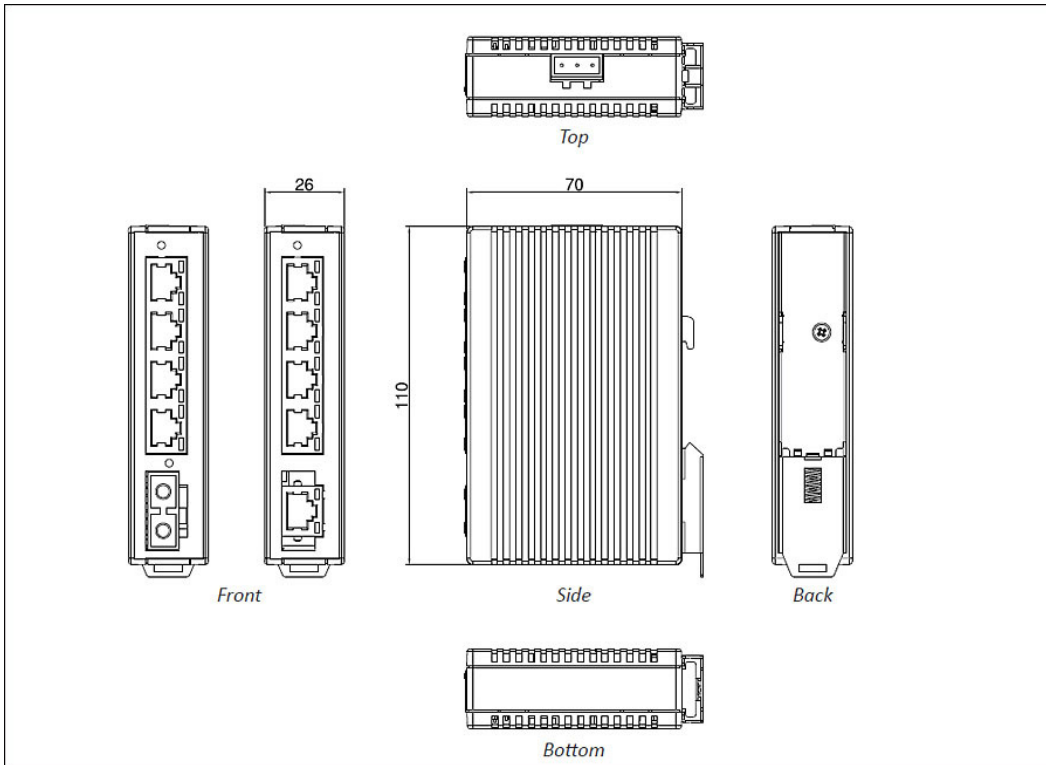
Safety

UL 62368

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

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

Optional Accessories

| | |
|----------------------|---|
| HDR-30-24 | 30W/1.5A DIN-Rail 24VDC Industrial Power Supply |
| HDR-60-24 | 60W/2.5A DIN-Rail 24VDC Industrial Power Supply |
| EDR-75-24 | 75W/3.2A DIN-Rail 24VDC Industrial Power Supply |
| EX41-145046-X | Power Supply 45W 12VDC with Open Wire (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA |

