# EX42000 Series

Industrial Unmanaged 5-port 10/100BASE Ethernet Switch







# **Overview**

EtherWAN's EX42000 Series is a compact Industrial Unmanaged Fast Ethernet switching platform, 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 versatile switch features 10/100Mbps transfer speeds, full/half-duplex auto-negotiation and auto MDI/MDIX operation allowing you to connect your network devices without hassles.

Although unmanaged, the EX42000 is feature-rich with full wire speed Fast Ethernet throughput, QoS (Quality of Service), and IEEE802.3az EEE (Energy Efficient Ethernet). The EX42000 can be DIN rail mounted and features a compact casing that can be an ideal solution for factory floors, warehouses, and outdoor locations without temperature control.

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

# Fiber Connectivity

 $^\circ\,$  Up to one 100BASE-FX port with SC and ST options

# 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**

• 2.12W Max. 0.17A @ 12VDC, 0.08A @ 24VDC, 0.04A @ 48VDC

#### Protection

- Reverse polarity proetction
- Overload current protection

# Mechanical

# Casing

- Plastic case
- IP30

# Dimensions

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

# 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°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

EMI

# FCC Part 15B, Class A

VCCI Class A

#### EN61000-6-4

# EMS

### EN61000-6-2

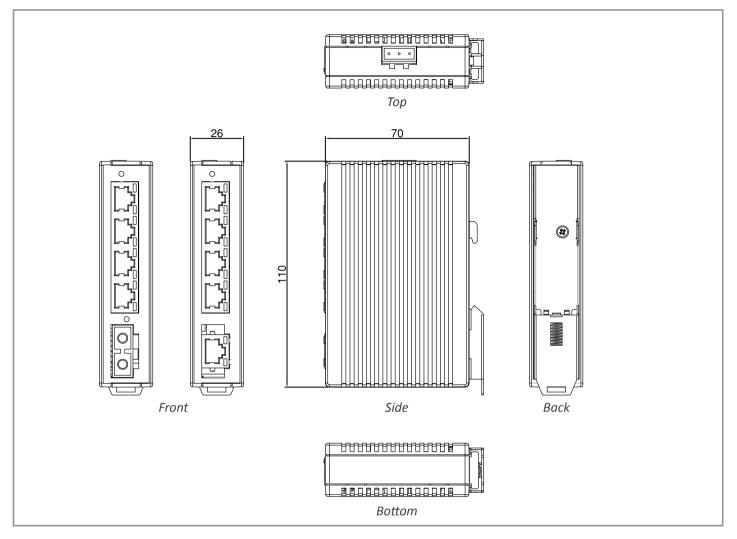
- EN61000-4-2 (ESD Standards)
- EN61000-4-3 (Radiated RFI Standards)
- EN61000-4-4 (Burst Standards)
- EN61000-4-5 (Surge Standards)
- EN61000-4-6 (Induced RFI Standards)
- EN61000-4-8 (Magnetic Field Standards)

### **Environmental Test Compliances**

# IEC60068-2-6 Fc (Vibration) IEC60068-2-27 Ea (Shock)

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

# Dimensions



# **Ordering Information**

# Model

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

\* 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