EX42008 Series

Hardened Unmanaged 7 to 8-port 10/100BASE-TX and 1-port 100BASE-FX Ethernet Switch

Overview

EtherWAN's EX42008 Series is a hardened unmanaged Fast Ethernet switching platform, designed for easy deployment in harsh environments. The EX42008 Series supports 12 to 48VDC redundant power input, and also provides relay alarm while power failure or port link down occur.

The EX42008 is equipped with eight Fast Ethernet ports, or a combination of Fast Ethernet copper ports and one 100FX 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.

The EX42008 is feature-rich with full wire speed Fast Ethernet throughput, QoS (Quality of Service) and IEEE802.3az EEE (Energy Efficient Ethernet). The EX42008 Series is built with relay alarm to notify users when power fails or link down occurs. It also supports port link down alarm by enabling the DIP switch. The EX42008 Series is housed with DIN rail mountable metal compact case which is an ideal solution for applications in harsh environments.

EtherWAN — "**When Connectivity is Crucial.**"

Spotlight

+ Hardened Grade

Supports -40 to 75°C (-40 to 167°F) operating temperature

+ Fiber Connectivity

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

+ High Reliability

Fanless design
No moving parts

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 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

Interface

Ethernet Ports
10/100BASE-TX: 8 or 7 ports
100BASE-FX: 0 or 1 port

LED Indicators
Per Unit: Power1 (Green), Power2 (Green), Fault (Red)
Per Port: Link & Activity (Green)

DIP Switches
Enable/Disable Port fault alarm

Alarm Contact
One relay output with current 1A@250VAC
Supports normal close and normal open

Environment

Operating Temperature
-40 to 75°C (-40 to 167°F)

Storage Temperature
-40 to 85°C (-40 to 185°F)

Ambient Relative Humidity
5% to 95% (non-condensing)

Power

Input
12-48VDC (Terminal Block)

Power Consumption
2.47W@24VDC

Protection
Reverse Polarity Protection

Mechanical

Casing
Aluminum Case
IP30

Dimensions
30 x 100 x 149mm (W x D x H)
(1.18" x 4" x 5.96")

Weight
0.39Kg (0.841lbs)

Installation
DIN-Rail (Top hat type 35mm) mounting

Regulatory Approvals

ISO
Manufactured in an ISO 9001 facility

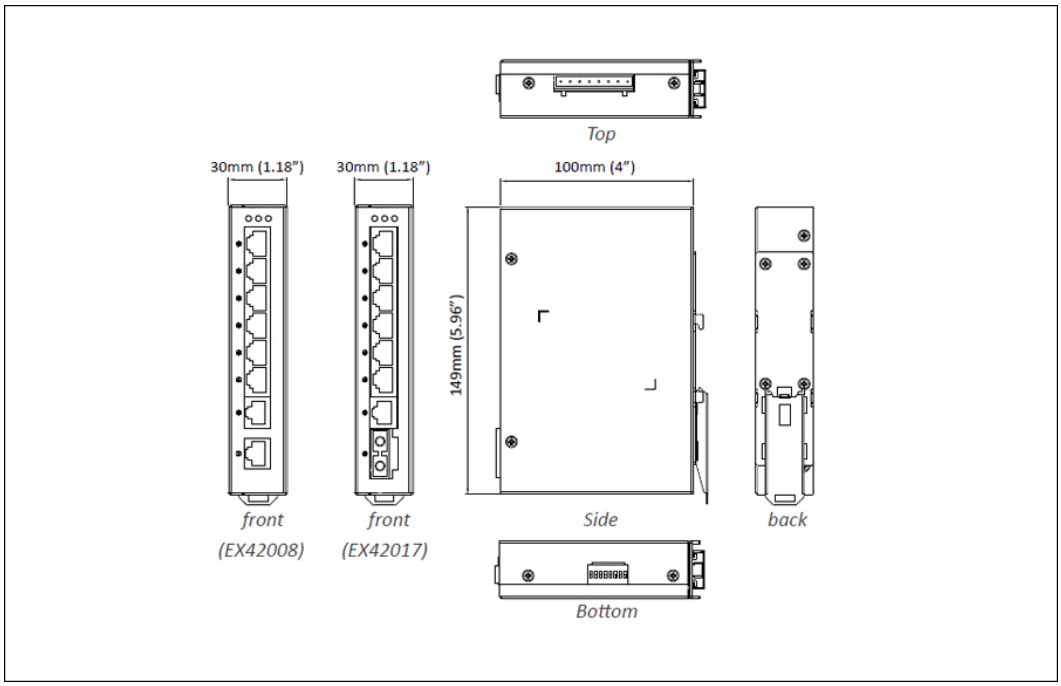
Safety
UL 60950
UL 62368

EMI
FCC Part 15B Class A
VCCI Class A
EN 61000-6-4
EN 61000-3-2
EN 61000-3-3
EN 55022 Class A

EMS
EN 61000-6-2
• EN 61000-4-2 (ESD Standards)
• EN 61000-4-3 (Radiated FRI Standards)
• EN 61000-4-4 (Burst Standards)
• EN 61000-4-5 (Surge Standards)
• 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)
• Tested with Cross Weight and Drop High standard table

Dimensions


Top
30mm (1.18")
30mm (1.18")
100mm (4")
149mm (5.96")
front
(EX42008)
front
(EX42017)
Side
back
Bottom

Ordering Info

Model

EX42008	8-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
EX42017-XY	7-port 10/100BASE-TX +1-port 100BASE-FX Hardened Unmanaged 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.

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