EX48000A Series

Hardened Unmanaged 5-port 10/100BASE PoE (4 x PoE) Ethernet Switch



Overview

This product is discontinued as of 28th August 2020.click here for alternative product.

EtherWAN's EX48000A Series provides a hardened 5-port switching platform supporting IEEE802.3af Power over Ethernet, high performance switching with robust features required for mission-critical and harsh environments where sustained connectivity is crucial.

The EX48000A Series is equipped with 4 10/100BASE-TX PoE ports, in combination with one 100FX Fiber option.

The IEEE802.3af PoE ports provide up to 15.4W/port with a total power budget of 61.6W, making the switch truly versatile for connecting with PoE Powered Devices (PD) with different bandwidth and power consumption requirements.

The EX48000A Series is designed to operate at -40°C to 75°C in harsh environments, where high ESD, shock, and vibration may be present.

EtherWAN — "When Connectivity is Crucial."

Spotlight

Hardened Grade

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

PoE Connectivity

» Port 1 to 4 supports IEEE802.3af Power over Ethernet

Fiber Connectivity

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

Specifications

Technology

Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX/100BASE-FX
- IEEE 802.3af Power over Ethernet
- IEEE 802.3x Full duplex and flow control

Forward and Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

Packet Buffer Memory

- 512K 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

- 1024 MAC addresses

Power

Input

- Redundant power inputs:
  Terminal Block: 47-57VDC
  DC Jack: 47-57VDC

Power Consumption

- Device: Max. 10W (without PoE)
- PoE Power Budget (depends on power input): 61.6W Max.

PoE Technology

- Alternative B
  Pins 7/8(-), 4/5(+)

PoE Power Output

• Port 1 to 4
• IEEE 802.3af: up to 15.4W/port, 47-55VDC, 350mA Max.

Protection
• Reverse polarity protection
• Overload current protection

Mechanical

Casing
• Metal Case
• IP30

Dimensions
• 200 x 134.3 x 35mm (W x D x H)
(7.87" x 5.29" x 1.38")

Weight
• 0.8Kg (1.76lbs.)

Installation
• Desktop, Wall, or DIN-Rail mounting

Interface

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

LED Indicators
• Per Unit: Power 1 (Green), Power 2 (Green), Power 3 (Green), Fault (Red)
• Per Port: Link/Activity (Green)

Alarm Contact
• One relay output with current 1A/250VAC

Environment

Operating Temperature
• -40 to 75°C (-40 to 167°F)
Tested @ -40 to 85°C (-40 to 185°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

EMI

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

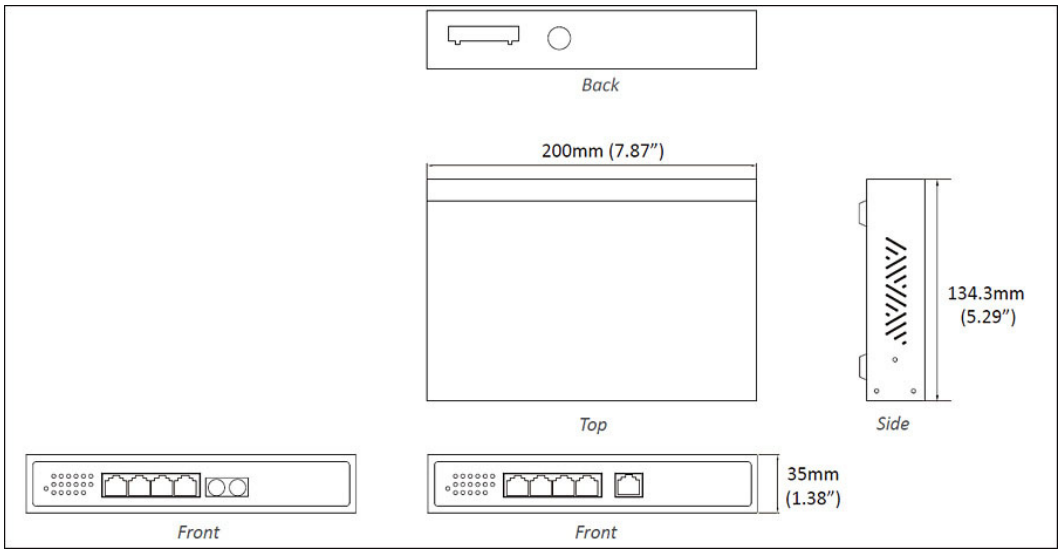
EMS

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)

Dimensions



Ordering Info

Model

EX48050A-00B	5-port 10/100BASE-TX PoE Hardened Unmanaged Ethernet Switch
EX48041A-X0B	4-port 10/100BASE-TX +1-port 100BASE-FX PoE Hardened Unmanaged Ethernet Switch

* DIN-Rail mounting kit included.

100FX Fiber Options (X)

1	Multi Mode (SC) - 2Km
2	Multi Mode (ST) - 2Km
6	Multi Mode (SC) WDM-TX: 1310nm/RX: 1550nm-2Km
7	Multi Mode (SC) WDM-TX: 1550nm/RX: 1310nm-2Km
8	Multi Mode (SC) WDM-TX: 1310nm/RX: 1550nm-5Km
9	Multi Mode (SC) WDM-TX: 1550nm/RX: 1310nm-5Km
A	Single Mode (SC) - 20Km
B	Single Mode (SC) - 40Km
H	Single Mode (ST) - 20Km
P	Single Mode (SC) WDM-TX: 1310nm/RX: 1550nm-20Km
Q	Single Mode (SC) WDM-TX: 1550nm/RX: 1310nm-20Km
R	Single Mode (SC) WDM-TX: 1310nm/RX: 1550nm-40Km
S	Single Mode (SC) WDM-TX: 1550nm/RX: 1310nm-40Km

* More 100FX Fiber options also available upon request.

Optional Accessories

KD-AA78000X	DIN-Rail Mounting Kit
EDR-120-48	120W/2.5A DIN-Rail 48VDC Industrial Power Supply
NDR-240-48	240W/5A DIN-Rail 48VDC Industrial Power Supply
EXGS-120A-48	Power Supply 120W 48VDC with Latch

© EtherWAN Systems, Inc. All rights reserved. 20260107
EtherWAN is constantly developing and improving products. Specifications are subject to change without notice and without incurring any obligation.