EX47000 Series

IEC 61850-3/IEEE 1613 Hardened Unmanaged 2 to 8-port 10/100BASE-TX and 2 to 6-port 100BASE-FX Ethernet Switch



Overview

This product is discontinued as of 31th July 2021. Click EX42008 and EX42900 or alternative product.

EtherWAN's EX47000 Series is a hardened unmanaged Fast Ethernet switching platform, designed for easy deployment in harsh environments.

The EX47000 Series is equipped with eight Fast Ethernet ports, or a combination of Fast Ethernet copper ports and two 100FX ports for long distance connectivity. Although unmanaged, the EX47000 is feature rich with full wire speed Fast Ethernet throughput, making the EX47000 Series a powerful network switch. With its hardened-grade specifications and IEC61850 & IEEE1613 certifications, the EX47000 Series is capable of operating under high EMI environments at the temperatures ranging from -40°C to 75°C, making it an ideal choice for harsh applications.

EtherWAN — "When Connectivity is Crucial."

Spotlight

Hardened Grade

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

Versatile mounting Options

» DIN-Rail or panel mounting

Fiber Connectivity

» Up to two 100BASE-FX ports with SC, ST and WDM options

Specifications

Technology

Standards

• IEEE 802.3, 10BASE-T
• IEEE 802.3u 100BASE-TX/100BASE-FX
• IEEE 802.3x Full duplex and flow control

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

Address Table Size

• 2048 MAC addresses

Power

Input

• Redundant power inputs:
12 to 48VDC (Terminal Block)
12VDC (DC Jack)

Power Consumption

• 6W Max. 12VDC@0.5A
24VDC@0.25A
48VDC@0.125A

Protection

• Reverse polarity protection

Mechanical

Casing

• Aluminum Case
• IP30

Dimensions

• 60 x 125 x 145mm (W X D X H)
(2.36" x 4.92" x 5.7")

Weight

• 1Kg (2.2lbs.)

Installation

• DIN-Rail (Top hat type 35mm) or Panel mounting Interface

Ethernet Ports

• 10/100BASE-TX: 16, 15 or 14 ports
• 100BASE-FX: 0, 1 or 2 ports

LED Indicators

• Per Unit: Power 1 (Green), Power 2 (Green), Power 3 (Green), Fault (Red)
• Per Port: Link/Act (Green), 100M (Green)

Alarm Contact

• One relay output with current 1A@24VDC

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 61000-6-4
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)
EN 55024

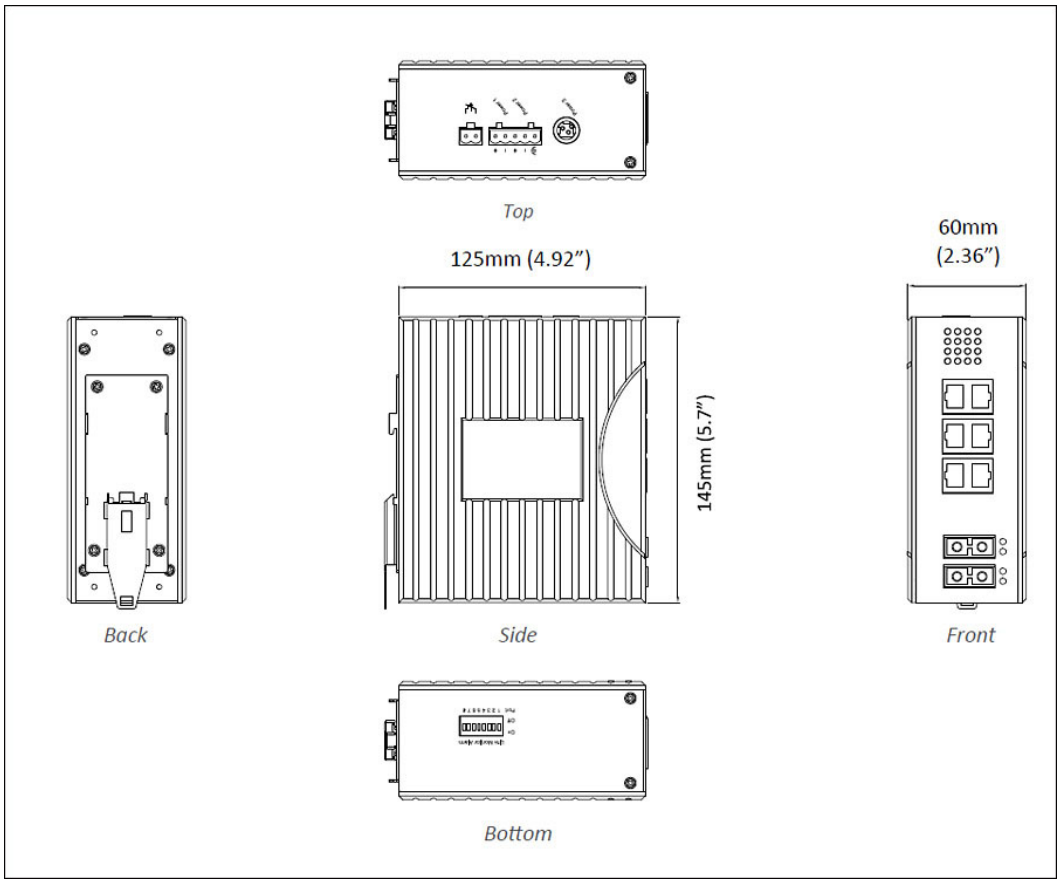
Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration)
IEC 60068-2-27 Ea (Shock)
FED STD 101C Method 5007.1 (Free fall w/package)

Industrial Compliance

IEC 61850/IEEE 1613
EN 50121-4

Dimensions



Ordering Info

Model

EX47080-00B	8-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
EX47062-X0B	6-port 10/100BASE-TX +2-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX47061-X0B	6-port 10/100BASE-TX +1-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX47042-X0B	4-port 10/100BASE-TX +2-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX47041-X0B	4-port 10/100BASE-TX +1-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX47026-X0B	2-port 10/100BASE-TX +6-port 100BASE-FX 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

KP-AA96-480	Panel mounting kit
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
EX41-145044-X	Power Supply 45W 12VDC with Latch (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA

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