

EX94000 Series

Hardened Unmanaged 5/8-port 10/100BASE Ethernet Switch



Overview

EtherWAN's EX94000 Series is a hardened Unmanaged Fast Ethernet switching platform, designed for easy deployment in harsh environments.

The EX94000 Series is equipped with eight Fast Ethernet ports, or a combination of Fast Ethernet copper ports and four 100FX ports for long distance connectivity. Although unmanaged, the EX94000 is feature rich with full wire speed Fast Ethernet throughput, making the EX94000 Series a powerful network switch.

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

Hardware Specifications

Technology

Standards

- IEEE802.3, 10BASE-T
- IEEE802.3u, 100BASE-TX/100BASE-FX
- IEEE802.3x, Full duplex and flow control

Forward and Filtering Rate

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

Packet Buffer Memory

- 768K 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

- 2048 MAC addresses

Power

Input Voltage

- 12 to 48VDC (Terminal Block)
- 12VDC (DC Jack)

Power Consumption

- 6.3W Max. 0.48A @ 12VDC
- 0.24A @ 24VDC
- 0.13A @ 48VDC

Protection

- Reverse polarity protection
- Overload current protection

Mechanical

Casing

- Aluminum Case

Dimensions

- 50mm (W) x 110mm (D) x 135mm (H)
(1.97" (W) x 4.33" (D) x 5.31" (H))

Weight

- 0.8Kg (1.76lbs.)

Installation

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

Interface

Ethernet Ports

- 10/100BASE-TX: 8, 6, 5 or 4 ports
- 100BASE-FX: 0, 1, 2 or 4 ports

LED Indicators

- Per Unit: Power 1 (Green),
Power 2 (Green),
Fault (Red)
- Per Port: Link/Activity (Green),
100M (Yellow)

Alarm Contact

- One relay output with current 1A @ 24VDC

Environment

Operating Temperature

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

UL508

UL ISA12.12.01 Class I Div. 2 for Hazardous locations

EMI

FCC Part 15B, Class A

EN61000-6-4

EN55022 Class A

EMS

EN61000-6-2

- EN61000-4-2 (ESD Standards)
- EN61000-4-3 (Radiated FRI 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 Compliance

IEC60068-2-6 Fc (Vibration)

IEC60068-2-27 Ea (Shock)

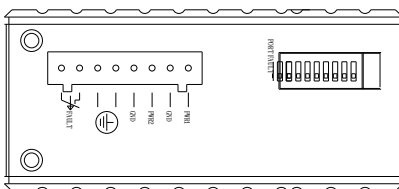
FED STD 101C Method 5007.1 (Free fall w/ package)

- Tested with Cross Weight and Drop High standard table

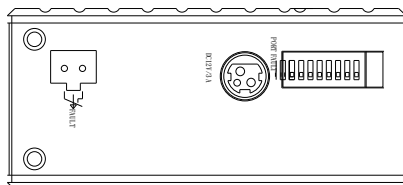
Industrial Compliance

NEMA TS2

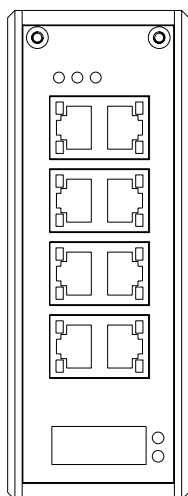
Terminal Block



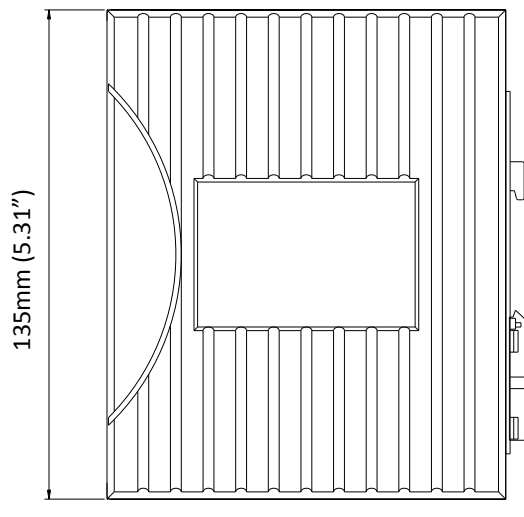
DC Jack



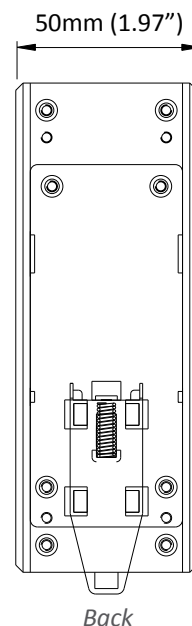
Top



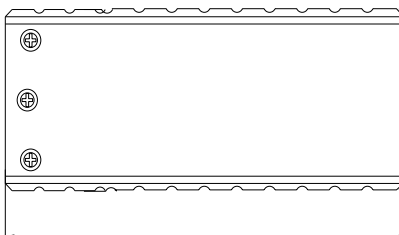
Front



Side



Back



110mm (4.33")

Bottom

Ordering Information

Model

EX94008-00-1-P	8-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
EX94018-XY-1-P	8-port 10/100BASE-TX + 1-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX94026-XY-1-P	6-port 10/100BASE-TX + 2-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX94044-XY-1-P	4-port 10/100BASE-TX + 4-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX94005-00-1-P	5-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch
EX94014-XY-1-P	4-port 10/100BASE-TX + 1-port 100BASE-FX Hardened Unmanaged Ethernet Switch
EX94024-XY-1-P	4-port 10/100BASE-TX + 2-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
2B	Single Mode (SC) -40Km
2D	Single Mode (ST) -20Km
1H	Multi Mode (SC) WDM-TX: 1310nm/RX:1550nm -2Km
1J	Multi Mode (SC) WDM-TX: 1310nm/RX:1550nm -5Km
2E	Single Mode (SC) WDM-TX:1310nm/RX:1550nm -20Km
2F	Single Mode (SC) WDM-TX:1310nm/RX:1550nm -40Km
1I	Multi Mode (SC) WDM-TX: 1550nm/RX:1310nm -2Km
1K	Multi Mode (SC) WDM-TX: 1550nm/RX:1310nm -5Km
2G	Single Mode (SC) WDM-TX:1550nm/RX:1310nm -20Km
2H	Single Mode (SC) WDM-TX:1550nm/RX:1310nm -40Km

*More 100FX Fiber options also available upon request.

Power Connector Options (P)

A	Terminal Block
B	DC Jack

Optional Accessories

KP-AA96-480	Panel mounting kit
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
41-136044-X	36W/3A 12VDC hardened power adapter with latched DC Jack in aluminum housing (for DC Jack) (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA