

EL2242

Hardened PoE 10/100/1000BASE-T to 100/1000BASE Dual Rate Media Converter



Overview

The EL2242 provides media conversion between 10/100/1000BASE-T(X) and 100/1000 BASE SFP fiber. Through DIP switch selection, Link-Fault-Pass-Through (LFPT) function can be enabled or disabled. EL2242 supports IEEE802.3at PoE/PSE standard and can transmit power and data over one STP cable. The EL2242's hardened design features high shock and vibration, electrical noise immunity and a wide operating temperature range from -40°C to 75°C. EL2242 is the ideal media converter for harsh environments.

EtherWAN – “When Connectivity is Crucial”.

Spotlight

- **Power over Ethernet**
 - Supports IEEE802.3at PoE/PSE standard
- **Hardened operating temperature range**
 - From -40°C to 75°C, wide operating temperature is suitable for outdoor cabinet installation
- **Dual Rate Optic Port**
 - SFP fiber optic port supports 100/1000BASE-X

Hardware Specifications

Technology

Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/FX
- IEEE802.3z 1000BASE-SX/1000BASE-LX
- IEEE802.3ab 1000BASE-T
- IEEE802.3at PoE/PSE

Forward and Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps
- 1,488,100pps for 1000Mbps

Packet Buffer Memory

- 256K bits

Processing Type

- Cut-through mode
- Auto Negotiation
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control
- Auto MDI/MDIX

Power

Input Voltage

- 48–57VDC for unit and PoE system (50– 57VDC is recommend for PoE+ device)

Power Consumption

- Device: Max. 3.5W without PoE
- PoE power budget: 30W Max. (depends on power input)

Protection

- Overload current protection
- Reverse polarity protection

Mechanical

Casing

- Aluminum Case

Dimensions

- 42mm (W) x 90mm (D) x 100mm (H)
(1.65" (W) x 3.54" (D) x 3.94" (H))

Weight

- 380g (0.83 lbs)

Installation

- DIN-Rail (top hat type 35mm)

Interface

Ethernet Port

- 10/100/1000BASE-TX: 1 port
- 100/1000BASE-SFP: 1 port

LED Indicators

- Per Unit: Power1, Power2 , Power Alarm
- Per 10/100/1000BASE-TX Port: 1000, 10/100, Link/Act
- Per 100/1000BASE-FX Port: 1000, 100, Link/Act
- PoE: On/Off
- LFPT: On/Off

Environment

Operating Temperature

- -40°C to 75°C (-40°F to 167°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

UL 60950-1

IEC 60950-1

EN 60950-1

EMI

FCC Part 15B Class A

VCCI Class A

EN 61000-6-4

EN 61000-3-3

EN 61000-3-2

EMS

EN 61000-6-2

- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated RFI 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)

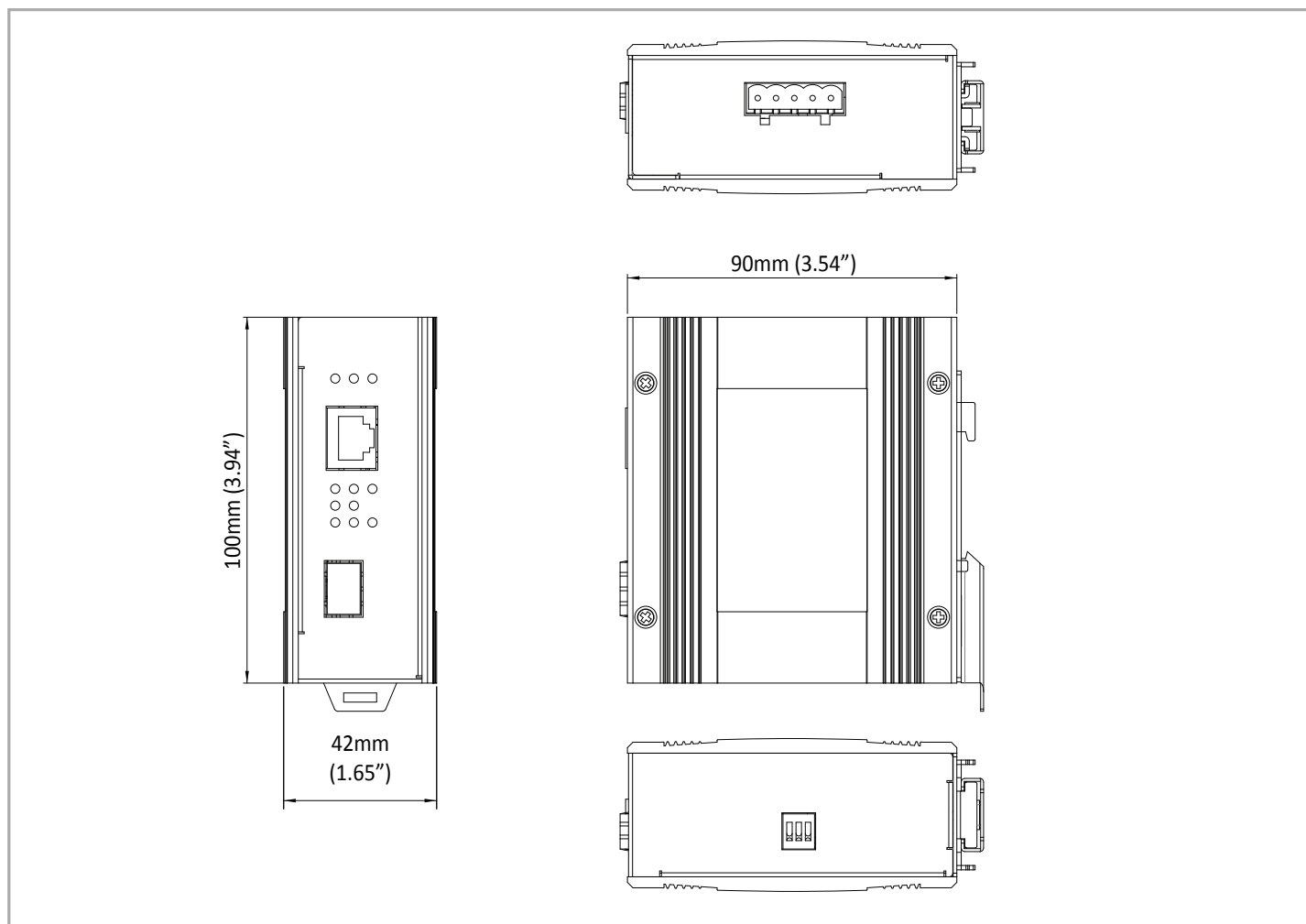
Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration Resistance)

IEC 60068-2-27 Ea (Shock)

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

Dimensions



Ordering Information

Model

EL2242-V1B	Hardened PoE 10/100/1000BASE-T to 100/1000BASE Dual Rate Media Converter
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* DIN-Rail mounting kit included

1000BASE-X Fiber Options (X)

V	100/1000BASE-X SFP
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Optional Accessories

DR-75-48	75W/1.6A DIN-Rail 48VDC Industrial Power Supply (for terminal block)
MDR-40-48	40W/0.83A 48VDC Industrial Power Supply (for terminal block)
DD-85-48	85W/1.78A 48VDC industrial Power Supply (for terminal block)
DD-85-55	85W/1.78A 55VDC Industrial Power Supply (for terminal block)