

# EL2242

Hardened PoE 10/100/1000BASE-T to 100/1000BASE Dual Rate SFP 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 IEEE 802.3at 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 to 75°C. EL2242 is the ideal media converter for harsh environments.

EtherWAN — "When Connectivity is Crucial."

## Highlights

### + Power over Ethernet

Supports IEEE 802.3at PoE standard

### + Wide Operating Temperature

Fanless and wide operating temperature range -40 to 75°C (-40 to 167°F)

### + Dual-Rate Fiber Optic Port

SFP fiber optic port supports 100/1000BASE-X

### + Support

Limited Lifetime Warranty and complimentary technical support

## Specifications

### + Interface

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

LED Indicators  
Per Unit: Power 1, Power 2, Alarm  
Per 10/100/1000BASE-TX Port: 1000, 10/100,  
Link/Activity  
Per 100/1000BASE-FX Port: 1000, 100, Link/Activity  
PoE: On/Off  
LFPT: On/Off

### + Technology

Standards  
IEEE 802.3 10BASE-T  
IEEE 802.3u 100BASE-TX  
IEEE 802.3z 1000BASE-SX/1000BASE-LX  
IEEE 802.3ab 1000BASE-T  
IEEE 802.3at PoE  
IEEE 802.3af PoE

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  
Half-duplex back-pressure and IEEE 802.3x full-  
duplex flow control  
Auto-negotiation  
Auto MDI/MDIX

### + Power

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

Power Consumption  
4.56W max. 0.38A@12VDC, 0.07A@48VDC

Protection  
Over Current Protection  
Reverse Polarity Protection

### + Physical

**Casing Material**  
Aluminum

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

**Weight**  
0.38kg (0.83lbs)

**Installation Type**  
DIN-rail mounting (Top hat type 35mm)

## + Environmental

**Operating Temp.**  
-40 to 75°C (-40 to 167°F)

**Storage Temp.**  
-45 to 85°C (-49 to 185°F)

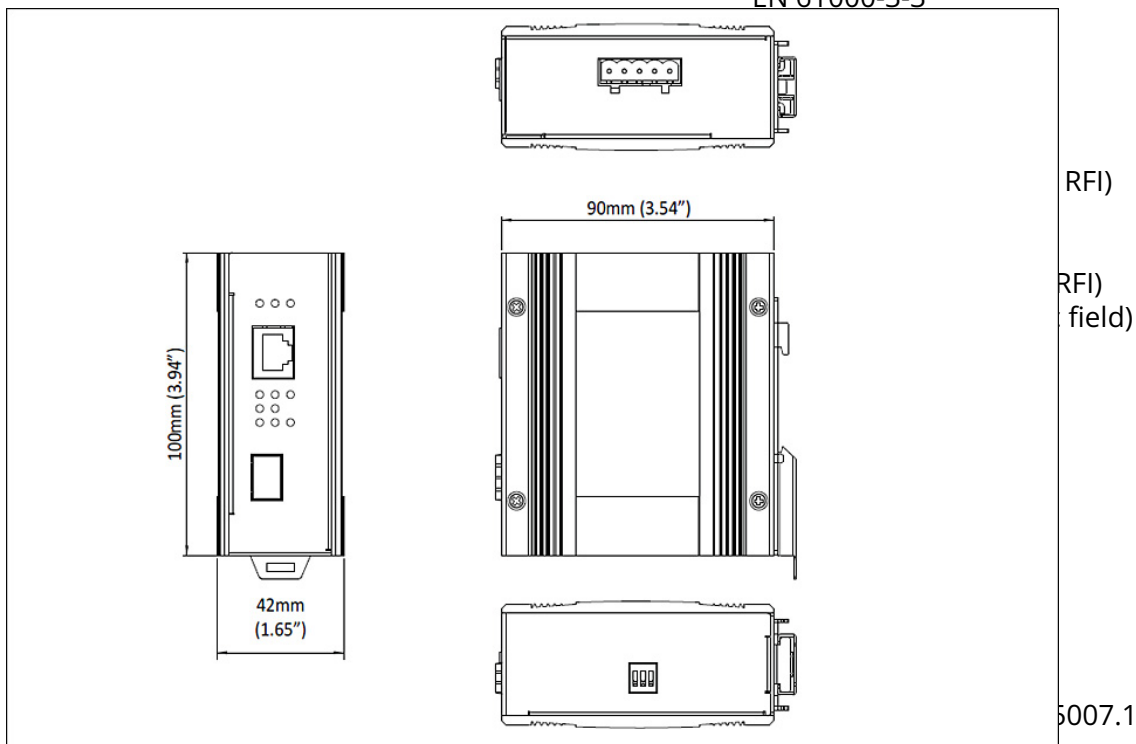
**Relative Humidity**  
5% to 95% (non-condensing)

## + Regulatory

**ISO**  
Manufactured in ISO-9001 facility

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

## Dimensions



## + Warranty

**Length**  
Limited Lifetime

**Details**  
[www.etherwan.com/support/warranty-policy](http://www.etherwan.com/support/warranty-policy)

## + What's Included

**Device**  
Media Converter

**Documentation**  
Quick Install Guide

## Ordering Info

### + Model

**EL2242-X1B** 10/100/1000BASE-T to 100/1000BASE Dual Rate Hardened PoE Media Converter

\* DIN-Rail mounting kit included.

### + 1000BASE-X Fiber Options (X)

V 100/1000BASE-X SFP

### + Optional Accessories

**EDR-75-48** 75W/1.6A DIN-Rail 48VDC Industrial Power Supply

### + Accessories

DIN-Rail Power Supplies [www.etherwan.com/products/din-rail-power-supply](http://www.etherwan.com/products/din-rail-power-supply)

