

# 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

### + Dual-Rate Fiber Optic Port

SFP fiber optic port supports 100/1000BASE-X

### + Wide Operating Temperature

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

### + 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

### + 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)

## + 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)

## + Regulatory

### ISO

Manufactured in ISO-9001 facility

### 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)  
EN 61000-4-3 (Radiated RFI)  
EN 61000-4-4 (Burst)  
EN 61000-4-5 (Surge)  
EN 61000-4-6 (Induced RFI)  
EN 61000-4-8 (Magnetic field)

### Safety

UL 60950-1  
EN 60950-1  
IEC 60950-1

### Vibration

IEC 60068-2-6 Fc

### Shock

IEC 60068-2-27 Ea

### Free Fall w/ Package

FED STD 101C Method 5007.1

## + Warranty

### Length

Limited Lifetime

### Details

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

## + What's Included

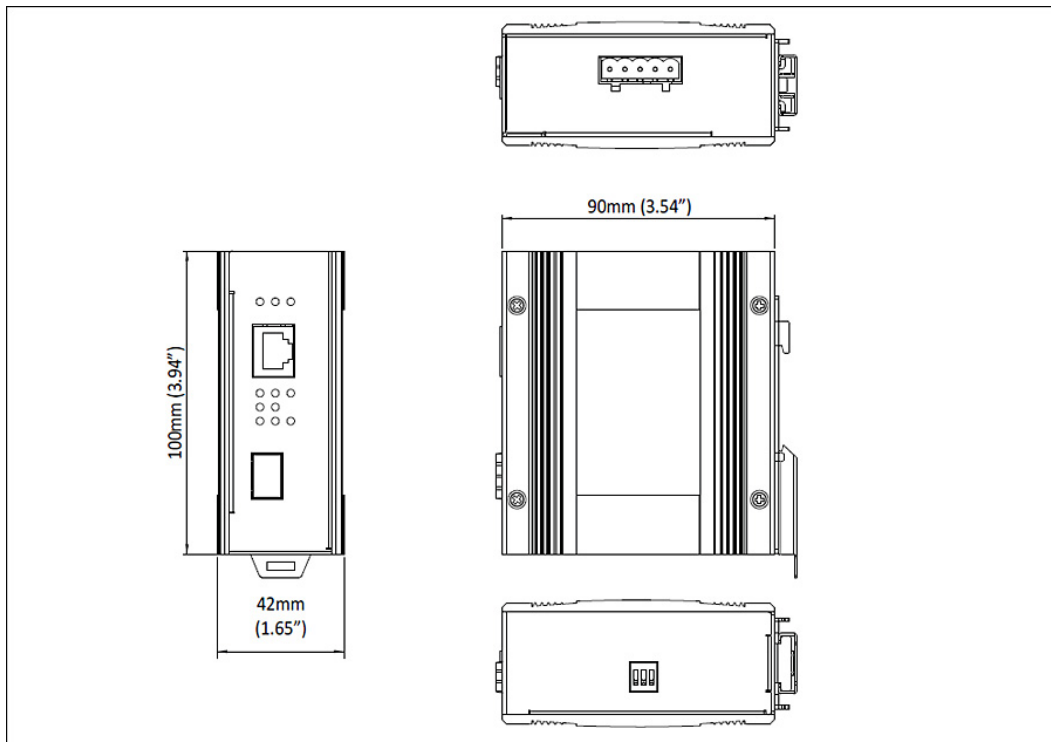
### Device

Media Converter

### Documentation

Quick Install Guide

## Dimensions



## Ordering Info

### + Model

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

EDR-75-48	75W/1.6A DIN-Rail 48VDC Industrial Power Supply
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### + Accessories

DIN-Rail Power Supplies	<a href="http://www.etherwan.com/products/din-rail-power-supply">www.etherwan.com/products/din-rail-power-supply</a>
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