# EL2242

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







## Overview

**This product is discontinued as of 28 July. 2026. Click here for alternative product.**

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**

32.5W (30W for PoE) Max.

**Protection**

Over Current Protection

Reverse Polarity Protection

## 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

## 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)

## Warranty

**Length**

Limited Lifetime

**Details**

www.etherwan.com/support/warranty-policy

## What's Included

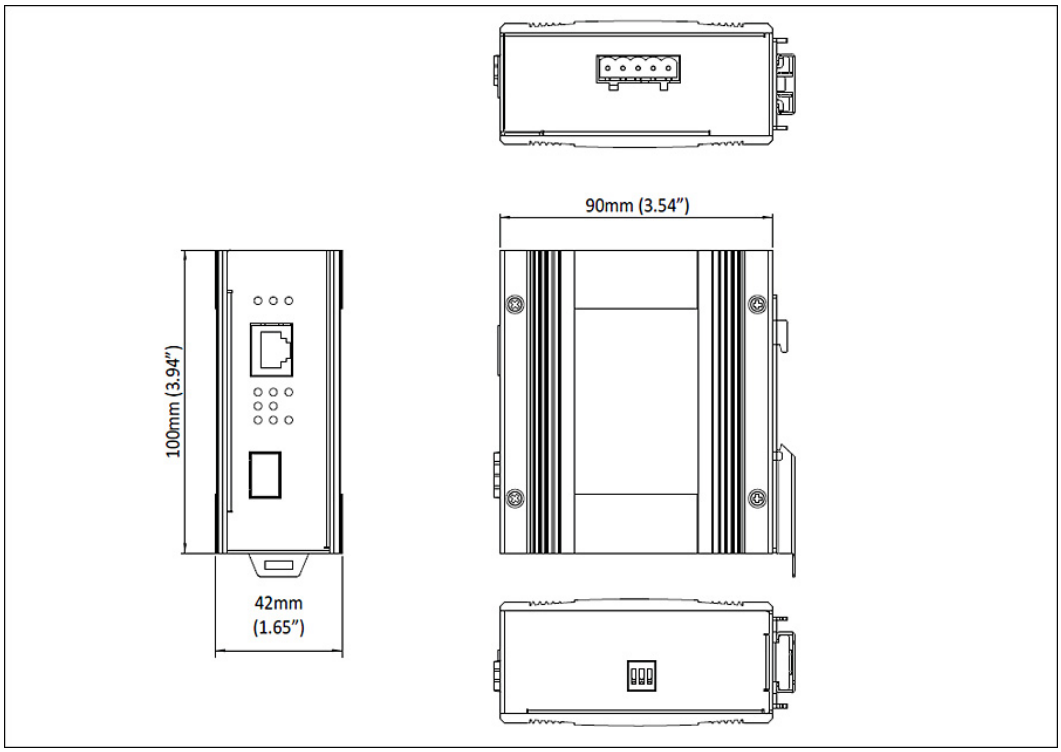
**Device**

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 |

* 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 |

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