

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 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

+ What's Included

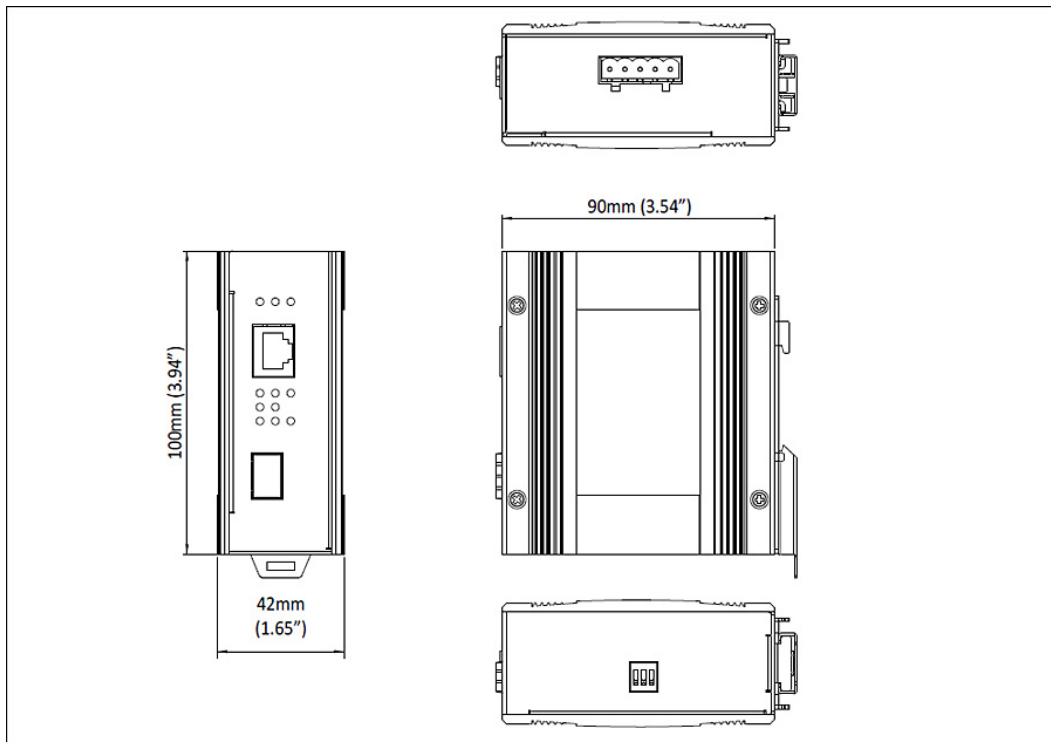
Device

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
-------------------------	--



© EtherWAN Systems, Inc. All rights reserved. 20240603

EtherWAN is constantly developing and improving products. Specifications are subject to change without notice and without incurring any obligation.