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

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

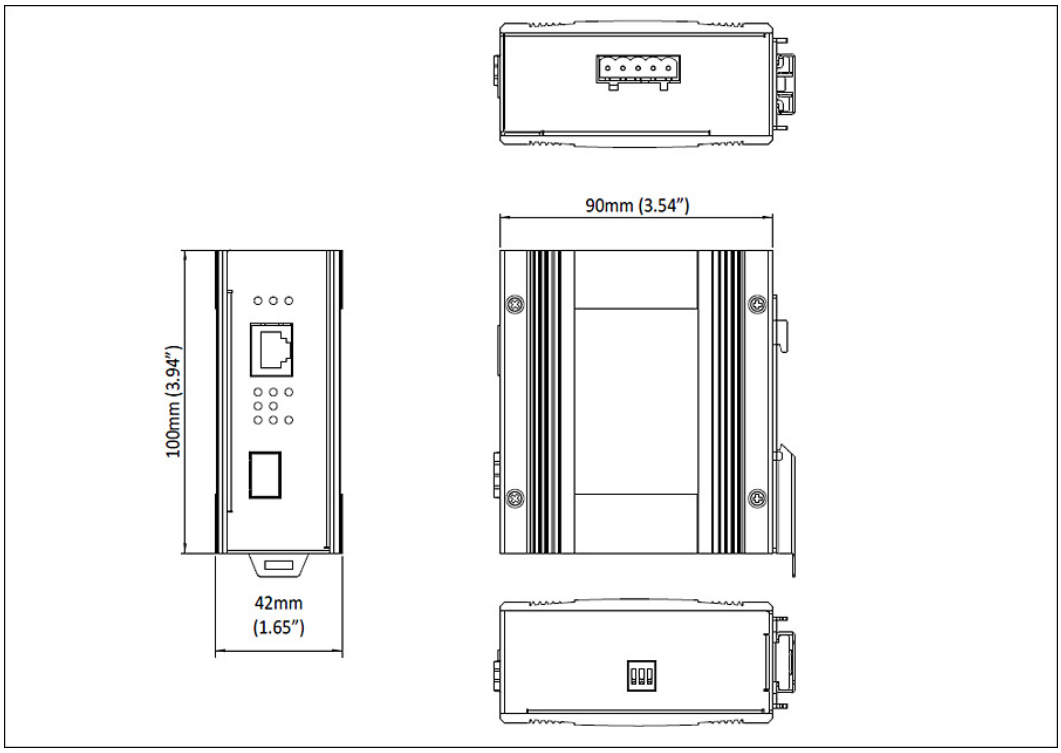
Device

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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