

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

+ 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)

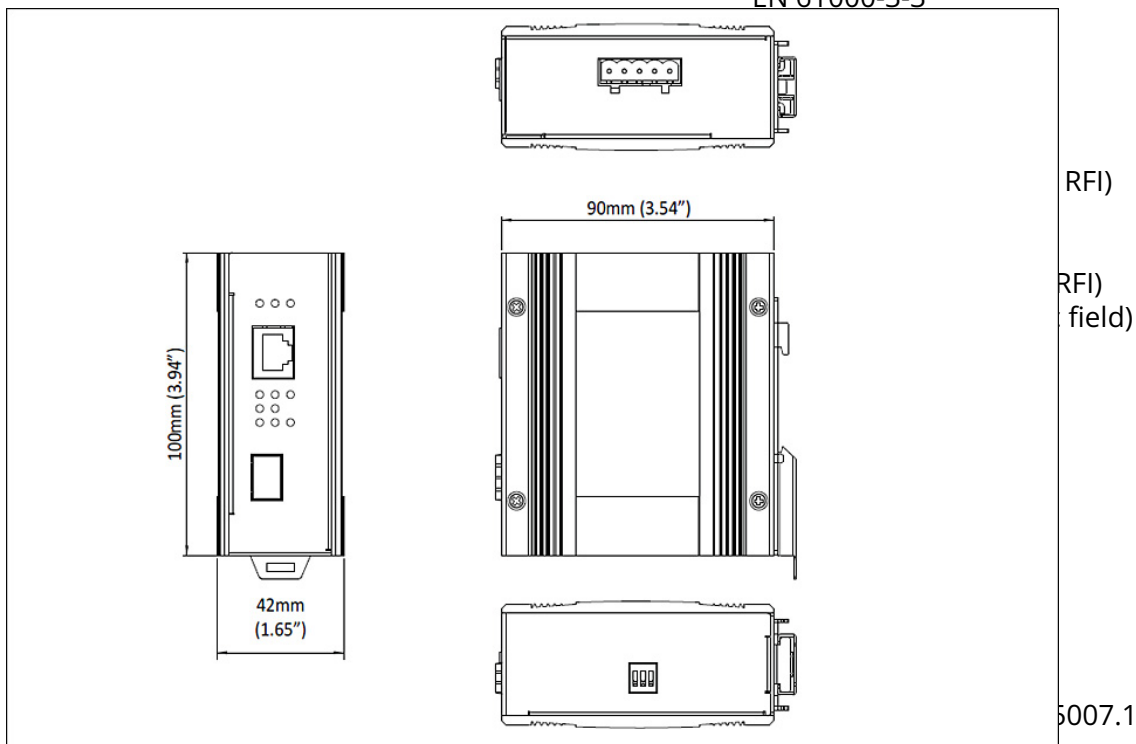
Relative Humidity
5% to 95% (non-condensing)

+ 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

+ 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

