

# EL2242-BT

Hardened Gigabit 90W PoE Media Converter



## Overview

EtherWAN's EL2242-BT is a compact hardened DIN-rail mounted PoE Media Converter. Using the latest IEEE 802.3bt PoE technology providing up to 90W power output and an 100/1000 SFP Slot, the EL2242-BT provides the solution required to integrate remote PoE devices such as IP cameras, LED lights, wireless access point, and other network devices into non-PoE networks for reliable operation even in harsh environments.

EtherWAN — "When Connectivity is Crucial."

## Highlights

### + Power Over Ethernet

Supports IEEE 802.3bt PoE/PSE standard, up to 90W  
Backward compatible with IEEE 802.3at and 802.3af

### + Hardened-Grade for Non-Ventilated & Harsh Environments

Fanless operation with wide operating temperature range of -40°C to 75°C  
High impact, thermal shock, and electrical noise resistance

### + Dual Rate SFP Port

SFP port supports 100/1000BASE-X for fiber connectivity  
Simple, DIP switch controlled for speed setting

### + Support

Complimentary technical support  
Limited lifetime warranty

## Specifications

### + Interface

#### Ethernet Port

10/100/1000BASE-TX: 1 port

100/1000BASE-SFP: 1 port

#### LED Indicators

Power Detected: Power 1, Power 2

SFP Slot (Green): Link/ACT: On (FX port detected),  
Flashing (FX data transmitting/receiving)

RJ-45 Port (Green): On (TX port detected), Flashing  
(TX data transmitting)

PoE (Amber): On (TX port detected), Flashing (TX  
data transmitting)

### + Technology

#### Standards

IEEE 802.3 10BASE-T

IEEE 802.3u 100BASE-TX

IEEE 802.3z 1000BASE-SX/1000BASE-LX

IEEE 802.3x Flow Control and Back Pressure

IEEE 802.3ab 1000BASE-T

IEEE 802.3at PoE

IEEE 802.3af PoE+

IEEE 802.3bt 4PPoE (60W/90W)

Compliant with 60W uPoE standard

Compatible with 95W PoH (Power over HDBaseT)  
standard

#### Forward and Filtering Rate

14,880pps for 10Mbps

148,810pps for 100Mbps

1,488,100pps for 1000Mbps

#### Packet Buffer Memory

256K bits

#### Jumbo Frame Size

16 KB

#### Processing Type

Cut-through mode

Half-duplex back-pressure and IEEE 802.3x full-  
duplex flow control

Auto-negotiation

Auto MDI/MDIX

### + Power

#### Input

52-56VDC redundant (terminal block)

#### Power Consumption

2W @ 52VDC, without PoE

#### Protection

Current Overload Protection

Reverse Polarity Protection

### + Physical

#### Casing Material

Aluminum

#### IP Rating

IP30

#### Dimensions

32 x 81.5 x 103.5mm (W x D x H)

1.26" x 3.21" x 4.07"

#### Weight

0.68kg (1.5lbs)

#### Installation Type

DIN-rail mounting or wall mounting

### + 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)

#### MTBF

>500,000 hours @ 60°C

## + Regulatory

### ISO

Manufactured in ISO-9001 facility

### EMI

FCC Part 15B Class A

EN 55032

EN 55024

### EMS

EN 61000-4-2 (ESD)

EN 61000-4-4 (Burst)

EN 61000-4-5 (Surge)

### Safety

UL 60950-1

### Vibration

EN 60068-2-6

### Shock

IEC 60068-2-27

### Free Fall w/ Package

EN 60068-2-32

## + Warranty

### Length

Limited Lifetime

### Details

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

## + What's Included

### Device

Media Converter

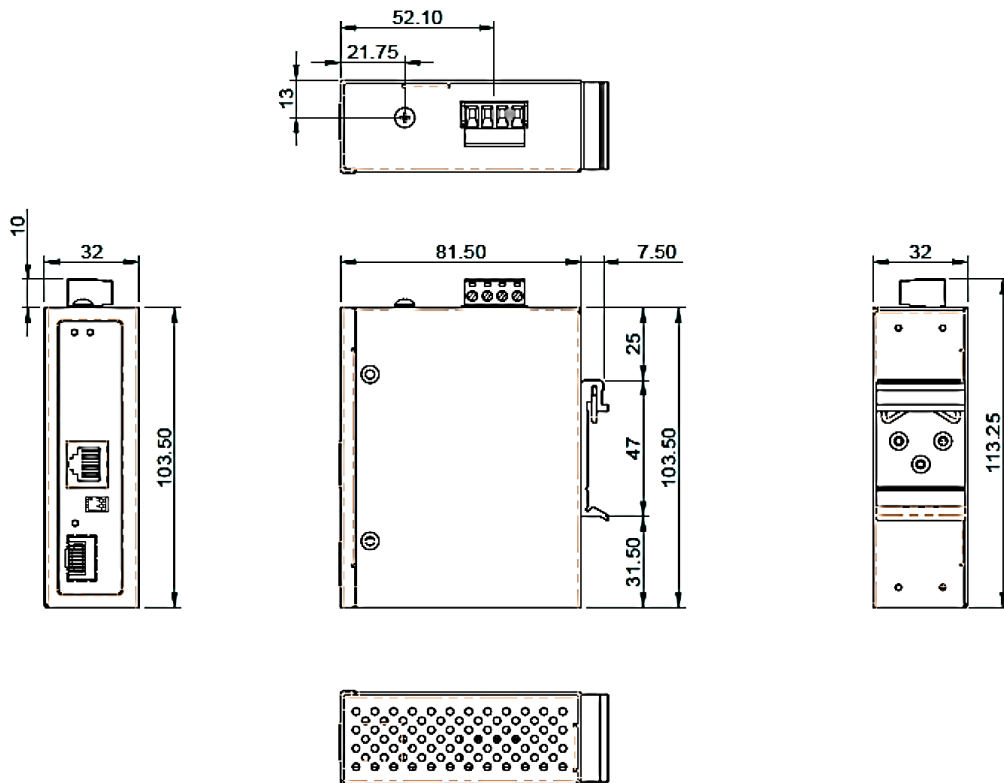
### Documentation

Quick Install Guide

### Installation

Mounting brackets, screws, 4-pin terminal block

## Dimensions



## Ordering Info

### + Model

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| <b>EL2242-BT</b> | 10/100/1000BASE-T PoE to 100/1000M SFP Hardened PoE Media Converter |
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\* DIN-Rail mounting kit included.

### + Optional Accessories

|                             |                                                                                                                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Hardened SFP Modules</b> | <a href="http://www.etherwan.com/us/products/sfp-fiber-transceiver">www.etherwan.com/us/products/sfp-fiber-transceiver</a> |
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| <b>Power Supplies</b> | <a href="http://www.etherwan.com/us/products/power-supplies">www.etherwan.com/us/products/power-supplies</a> |
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