

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

+ What's Included

Device

Media Converter

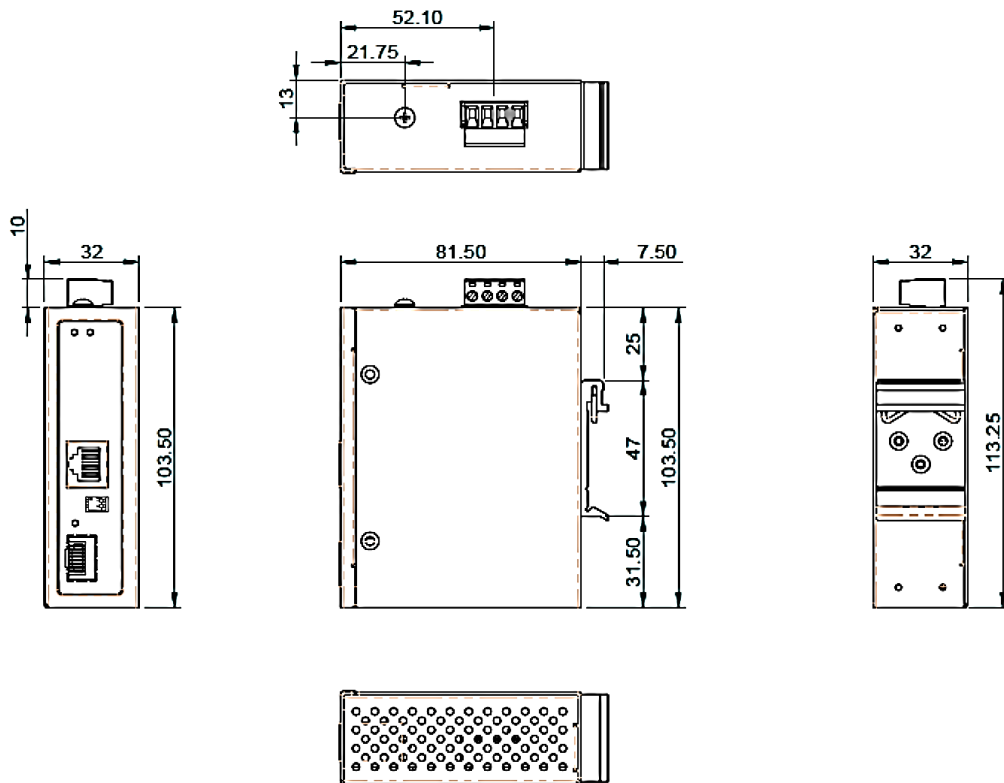
Documentation

Quick Install Guide

Installation

Mounting brackets, screws, 4-pin terminal block

Dimensions



Ordering Info

+ Model

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

+ Optional Accessories

Hardened SFP Modules	www.etherwan.com/us/products/sfp-fiber-transceiver
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Power Supplies	www.etherwan.com/us/products/power-supplies
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