

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)

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

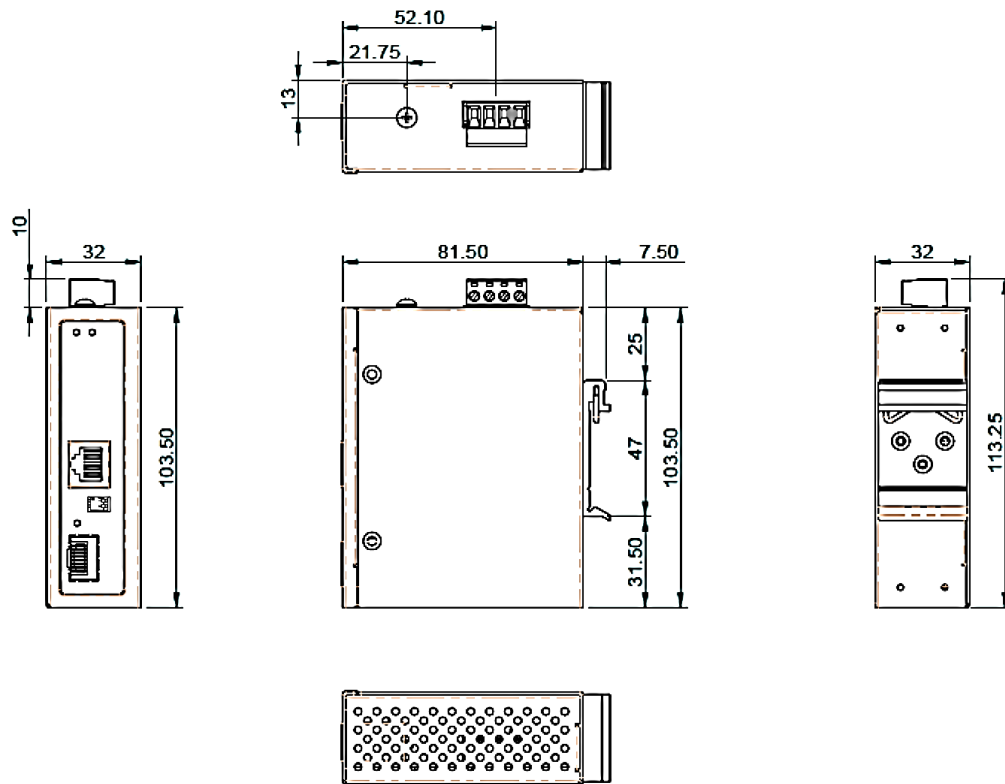
Mounting brackets, screws, 4-pin terminal block

+ MPN

EL2242-BT

1683917

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
Power Supplies	www.etherwan.com/us/products/power-supplies



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