EL2242-BT
Hardened Gigabit PoE Media Converter

EtherWAN

90W PoE

Wide Temperature °C

SFP Option

Fanless

Product Highlights

➔ High-Power over Ethernet

- High power output using the latest IEEE 802.3bt technology
- Up to 90W output for various security, LED lighting, and other applications
- Backward compatible with 802.3af and 802.3at devices

➔ Hardened-Grade for Non-Ventilated & Harsh Environments

- Fanless and wide operating temperature range -40 to 75°C (-40 to 167°F)
- Fanless Operation

➔ Support

- In-person training and free online training courses available
- Limited Lifetime Warranty and complimentary technical support

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.

Ordering Information

Model

EL2242-BT	10/100/1000BASE-T PoE to 100/1000M SFP Media Converter, 90W 802.3bt

* DIN-Rail mounting kit included.

Hardware Specifications

Interface +

Ethernet Port	1 x 100/1000BASE SFP, connection to network
	1 x 10/100/1000BASE-T(X), PoE connection to device
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 (Active), Flashing(PSE is detecting PD). Off (Idle)

Technology +

Standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000Base-X Gigabit Ethernet IEEE 802.3x Flow Control and Back Pressure IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt 4PPoE 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
Processing Type	Cut-through mode Auto Negotiation Half-duplex back-pressure and IEEE 802.3x full-duplex flow control Auto MDI/MDIX
Jumbo Frame Size	16 KB

Power +

Input	52-56VDC redundant (terminal block)
Power Consumption	2W @ 52VDC , without PoE
PoE Power Output	90W @ 56VDC input
Protection	Reverse polarity protection, current overload protection

Physical +

Casing Material	Aluminum case
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	1.5lbs (0.68kg)
Installation Type	DIN-rail or wall mounting

Environmental +

Operating Temp.	-40 to 75°C (-40 to 167°F)
Storage Temp.	-40 to 85°C (-40 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	EN 60068-2-32

Warranty +

Length	Limited Lifetime
Details	www.etherwan.com/support/warranty-policy

What's Included +

Device	Media Converter
Installation	Mounting brackets, screws, 4-pin terminal block
Documentation	Quick Install Guide

DIP Switch +

DIP1	OFF - LFPT disabled (Default) ON - LFPT enabled
DIP2	1000 - SFP speed 1000M (Default) 100 - SFP speed 100m

Dimensions
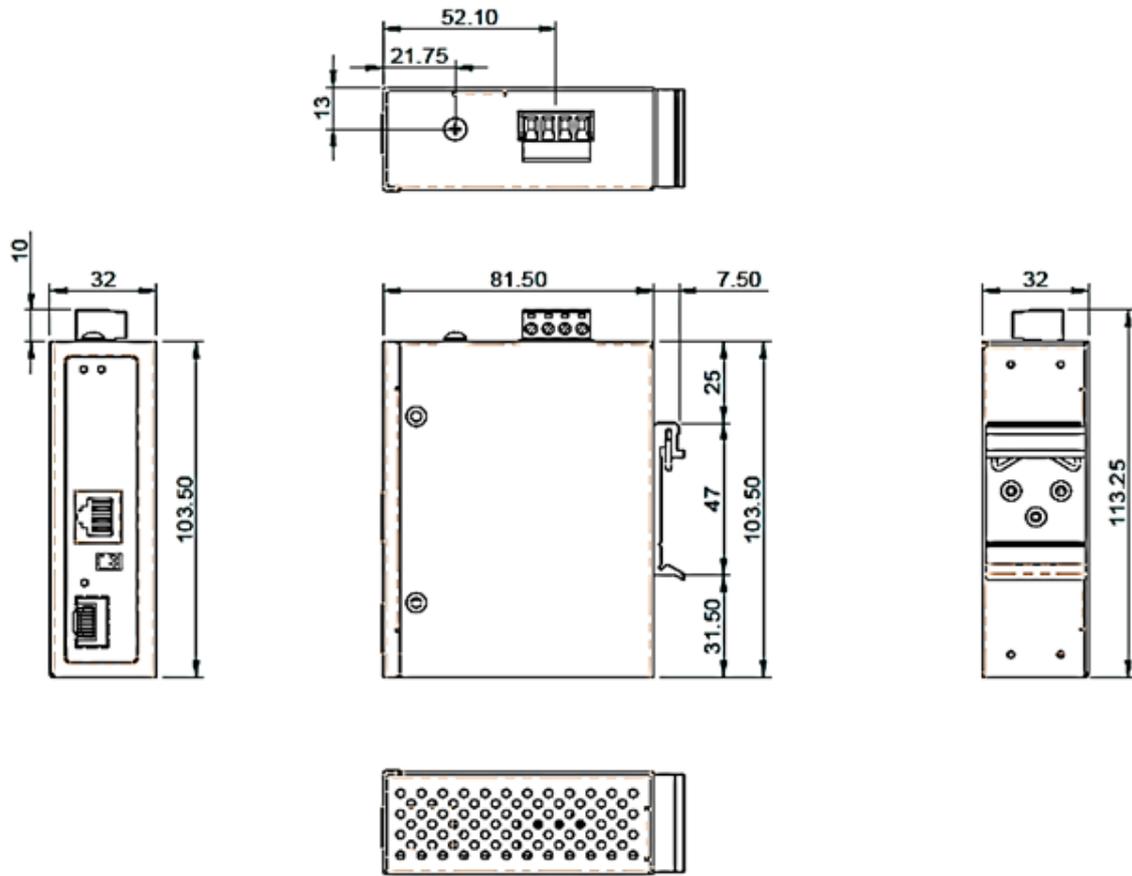
Accessories

DIN-Rail Power Supplies

www.etherwan.com/us/products/epow-54-600 (Recommended)*

www.etherwan.com/products/din-rail-power-supply

SFP Fiber Transceiver

https://www.etherwan.com/us/products/sfp-fiber-transceiver