

EL8315

Hardened PoE++ 10/100/1000BASE-T to 100/1000 Dual Rate SFP Media Converter



Overview

EL8315 is a Gigabit media converter that complies with the **IEEE 802.3bt PoE++** standard, delivering up to **90W** of power. It is suitable for high-power devices such as **PTZ speed dome cameras, IP cameras, and wireless access points**. The device features a **Power Delivery Reset (PDRST)** function, which can be enabled via a DIP switch. When a system anomaly is detected, users can simply reinsert the SFP module to automatically reboot the powered device (PD) remotely, eliminating the need for on-site intervention. This significantly reduces labor costs and enhances maintenance efficiency.

The EL8315 also supports **Link Fault Pass Through (LFPT)**. When the LFPT is enabled, LFPT provides constant monitoring of the links connected to the media converters. If either of the copper links fails, the media converter will pass the fail state on throughout the link, taking down the middle fiber link as well as the copper link on the opposite end. The **SFP port** supports **100M / 1G transmission speeds** and includes **Auto-Negotiation** and **Auto-MDIX** features, simplifying installation and cabling.

Designed with a **fanless architecture**, the EL8315 operates reliably within a wide temperature range of **-40°C to 75°C**, making it ideal for harsh environments such as **outdoor deployments, traffic surveillance, telecom rooms, and industrial automation**. It supports **DIN rail mounting**, allowing easy integration into control cabinets and enclosures. The EL8315 is an ideal media converter solution for extending Ethernet networks while providing stable, high-power PoE.

EtherWAN — "When Connectivity is Crucial."

Highlights

+ Power over Ethernet

- Supports IEEE 802.3bt PoE++

+ Wide Operating Temperature

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

+ Link-Fault-Pass-Through (LFPT)

- Provides constant monitoring of the links connected to the media converters
- If a copper or a fiber link fails, the media converter will pass the fail state on throughout the link, disabling the fiber link and the copper link on the opposite end

+ Dual-Rate Fiber Optic Port

- SFP fiber optic port supports 100/1000 dual rate

+ PDRST

- Support power deliver reset function by DIP switch

Specifications

+ Technology

Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3z 1000BASE-X
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3x Flow Control and Back Pressure
- IEEE 802.3bt PoE
- 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

- 512K bits

Jumbo Frame

- 16KB

MAC Address Table size

- 1K

Processing Type

- Ports speed are the same: Converter mode
- Ports speed are not the same: Store-and-Forward mode
- Auto-negotiation
- Auto MDI/MDIX

+ Power

Input

- 12~56VDC for unit
- 52~56VDC for PoE device (Maximum PoE power 90Watts @ 56VDC input)

Power Consumption

- 3W@56VDC, without PoE

Protection

+ Regulatory

ISO

- Manufactured in ISO-9001 facility

EMI

- FCC Part 15B Class A
- EN55032:2015
- EN55035:2017/A11:2020

EMS

- IEC 61000-2 (ESD)
- IEC 61000-3 (Radiated RFI)
- IEC 61000-4 (Burst)
- IEC 61000-5 (Surge)
- IEC 61000-6 (Induced RFI)
- IEC 61000-8 (Magnetic field)

Safety

- UL62368-1

Vibration

- EN 60068-2-6

Shock

- EN 60068-2-27

Free Fall w/ Package

- EN 60068-2-32

+ Interface

Ethernet Port

- 10/100/1000BASE-TX: 1 port
- 100/1000BASE-SFP: 1 port

LED Indicators

- Per Unit: Power 1, Power 2
- Per TX port: Link/ACT, Speed
- Per FX port: Link/ACT
- PoE: On/Off

+ Physical

Casing Material

- Aluminum

Dimensions

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

Weight

- 0.15kg (0.33lbs)

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)

+ Warranty

Length

- 2 Years

Details

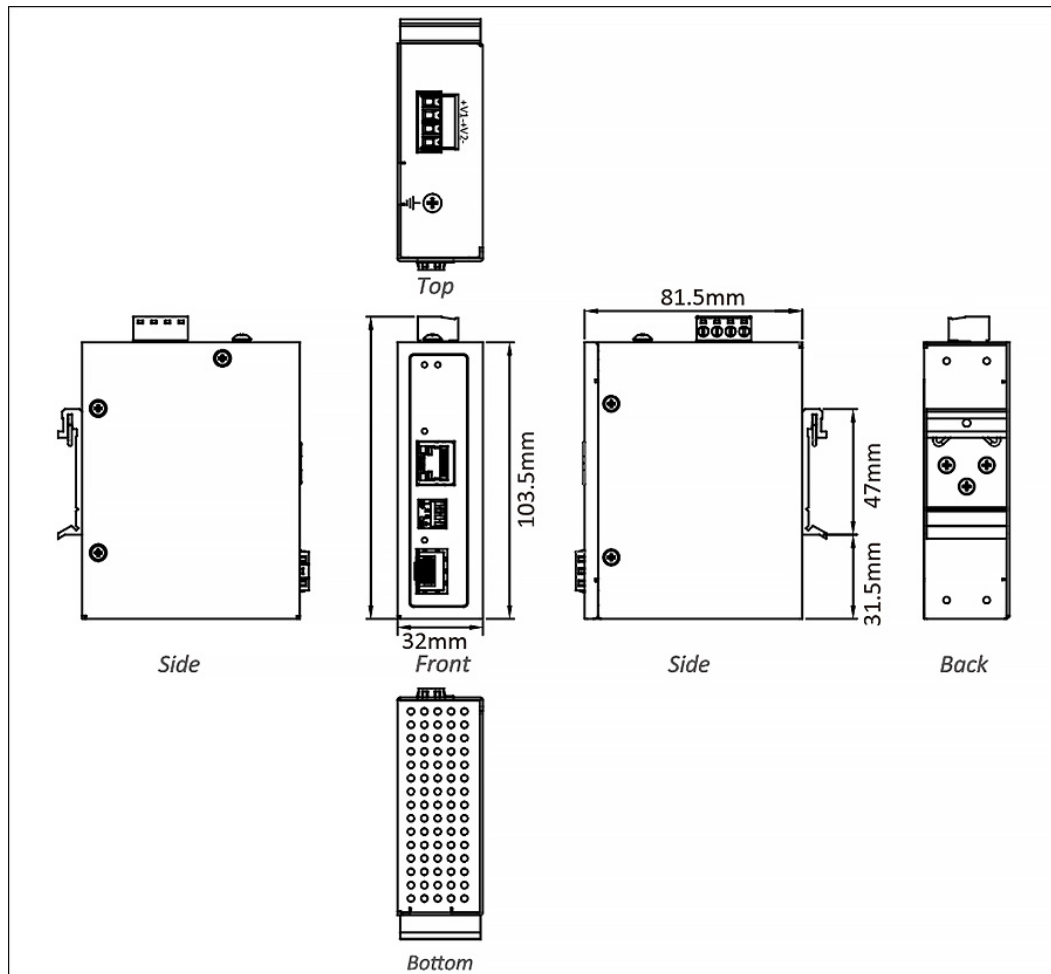
- www.etherwan.com/support/warranty-policy

+ What's Included

Device

- Media Converter

Dimensions



Ordering Info

+ Model

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* DIN-Rail mounting kit included.

+ 1000BASE-X Fiber Options (X)

100 or 1000BASE-X SFP

