# 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.

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# Highlights

## Power over Ethernet

Supports IEEE 802.3bt PoE++

## Dual-Rate Fiber Optic Port

SFP fiber optic port supports 100/1000 dual rate

## Wide Operating Temperature

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

## PDRST

Support power deliver reset function by DIP switch

## 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

# 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

## 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

## Power

**Input**

12~56VDC for unit

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

**Power Consumption**

3W@56VDC, without PoE

**Protection**

Over Current Protection

Reverse Polarity Protection

## 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**

Limited Lifetime

**Details**

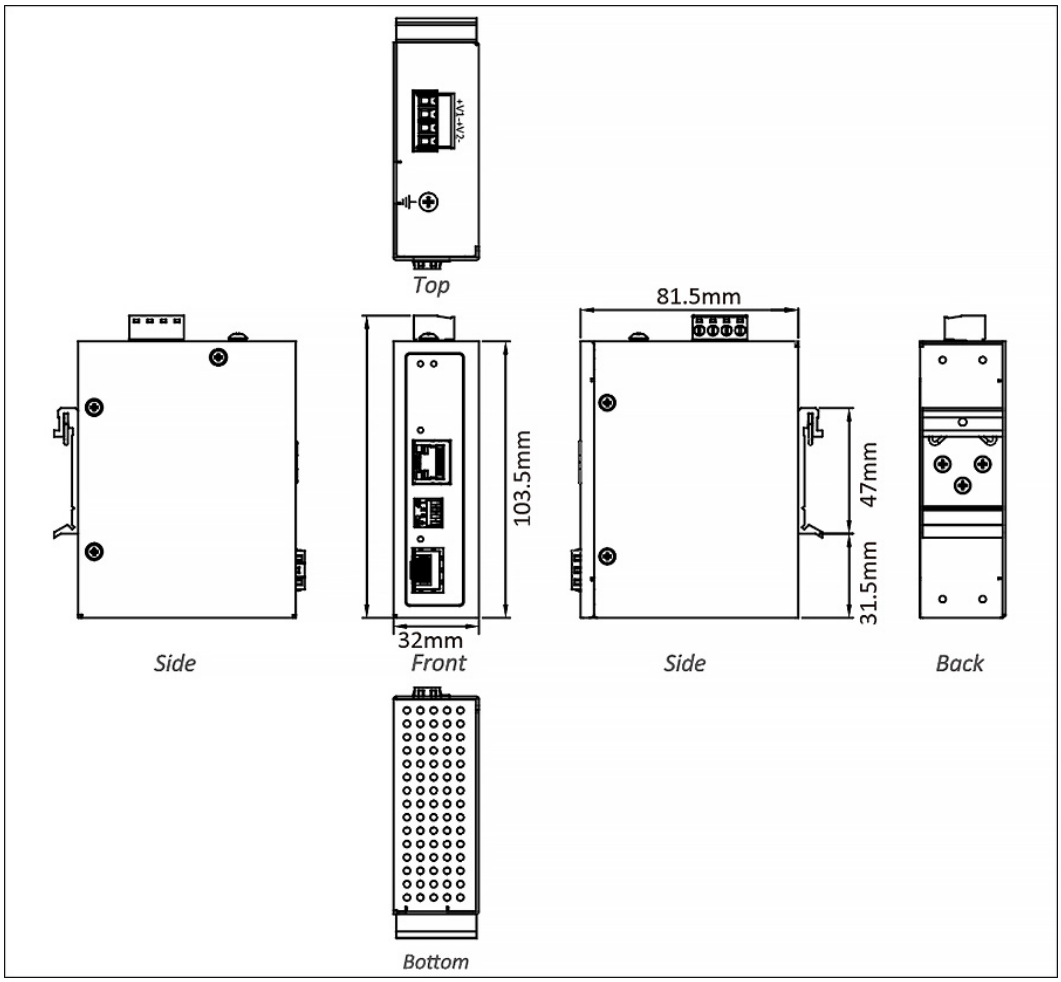
www.etherwan.com/support/warranty-policy

## What's Included

**Device**

Media Converter

# Dimensions




# Ordering Info

## Model

| | |
|---|---|
| **EL8315** | Hardened PoE++ 10/100/1000BASE-T to 100/1000 Dual Rate SFP Media Converter |

* DIN-Rail mounting kit included.

## 1000BASE-X Fiber Options (X)

| |
|---|
| **100 or 1000BASE-X SFP** |



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