

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++

+ 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

+ 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)

+ 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

+ Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

+ What's Included

Device

Media Converter

+ Physical

Casing Material

Aluminum

Dimensions

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

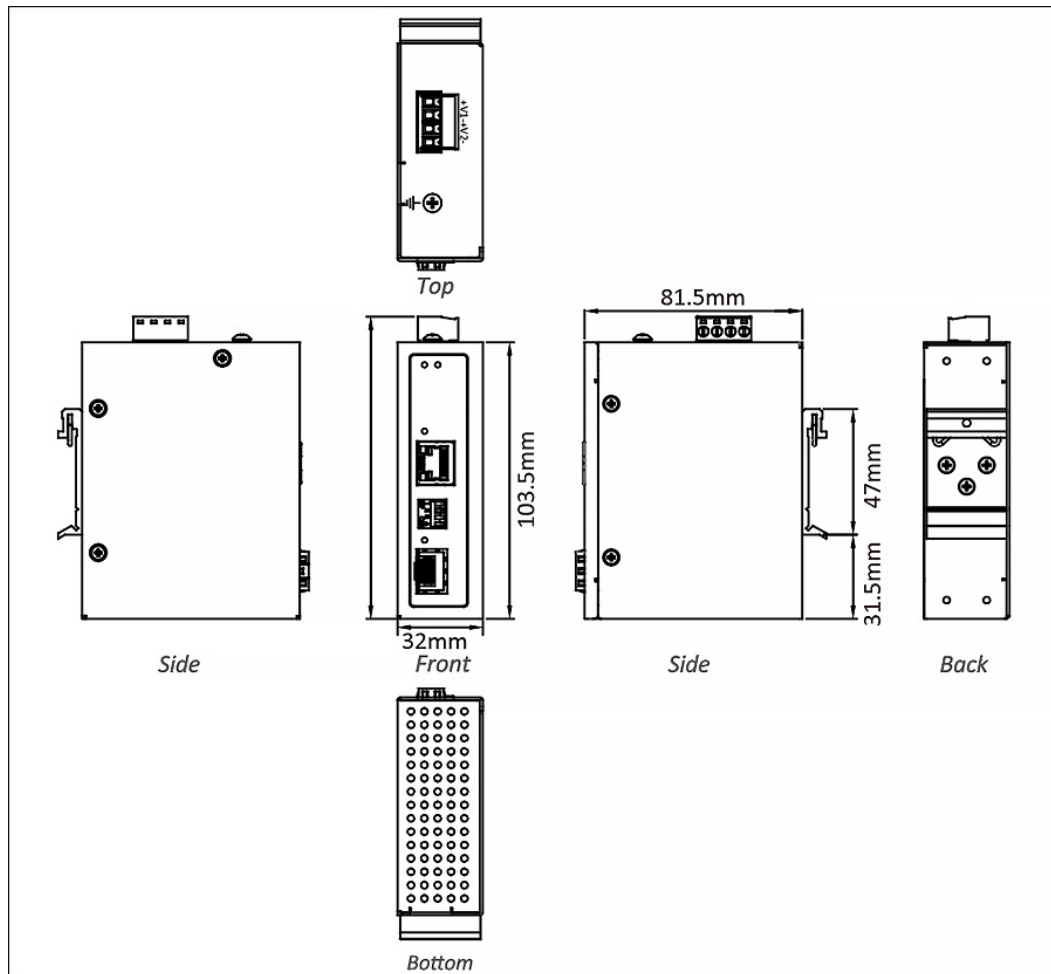
Weight

0.15kg (0.33lbs)

Installation Type

DIN-rail mounting (Top hat type 35mm)

Dimensions



Ordering Info

+ Model

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* DIN-Rail mounting kit included.

+ 1000BASE-X Fiber Options (X)

100 or 1000BASE-X SFP



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