

# EL2315 Series

10/100/1000BASE-TX to 100/1000BASE-X Dual Rate SFP Media Converter



## Overview

The EL2315 Series provides media conversion between 10/100/1000BASE-T(X) and 100/1000BASE SFP Fiber. The EL2315's fiber design is compatible to 100BASE fiber or 1000BASE fiber transceiver. Through DIP switch selection, the EL2315's SFP port can support 100BASE SFP fiber or 1000BASE-X SFP fiber port. Also, through DIP switch selection, the Link-Fault-Pass-Through (LFPT) function can be active or disabled.

With Gigabit transmission rate, EL2315 supports Jumbo Frame up to 9K bytes, the EL2315 is the ideal media converter for environments where connectivity is crucial.

EtherWAN — "When Connectivity is Crucial."

## Highlights

### + Gigabit Connectivity

1000Mbps Full duplex, 10/100Mbps Full/Half duplex  
Fiber interface supports dual rate 100BASE-FX and 1000BASE-SX/LX fiber transmission

### + 100/1000BASE-FX Dual Rate SFP Support

DIP switch controlled 100BASE or 1000BASE SFP options

### + Link-Fault-Pass-Through (LFPT)

Provides constant monitoring of the links connected to the media converters  
If a copper links 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/100BASE-FX  
IEEE 802.3ab 1000BASE-T  
IEEE 802.3z 1000BASE-SX/1000BASE-LX  
IEEE 802.3x Full duplex and flow control

#### Forward and Filtering Rate

14,880pps for 10Mbps  
148,810pps for 100Mbps  
1,488,100pps for 1000Mbps

#### Processing Type

Store-and-Forward  
Auto Negotiation  
Half duplex back-pressure and IEEE 802.3x full-duplex flow control  
Auto-MDI/MDIX

### + Power

#### Input

12VDC

#### Power Consumption

2.76W Max. 0.23A@12VDC

### + Mechanical

#### Casing

Aluminum Case

#### Dimensions

80.3 x 109.2 x 23.8mm (W x D x H)  
(3.16" x 4.3" x 0.94")

#### Weight

150g (0.336lbs.)

#### Installation

Wall mounting

### + Interface

#### Ethernet Port

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

#### DIP Switch

No.1: LFPT On/Off  
No.2: Auto-Negotiation/Force Mode for TX port  
No.3: Full-duplex/Half-duplex for TX port

No.4: 100Mbps/10Mbps Force Mode for TX port  
 No.5: 100Mbps/1000Mbps for SFP  
 No.6: Function Reserved

### LED Indicators

Per Unit: Power, LFPT  
 Per Port: FX/TX Speed, Link/Activity

## + Environment

### Operating Temperature

0 to 50°C (32 to 121°F)

### Storage Temperature

-10 to 70°C (-14 to 158°F)

### Ambient Relative Humidity

5% to 95% (non-condensing)

## + Regulatory Approvals

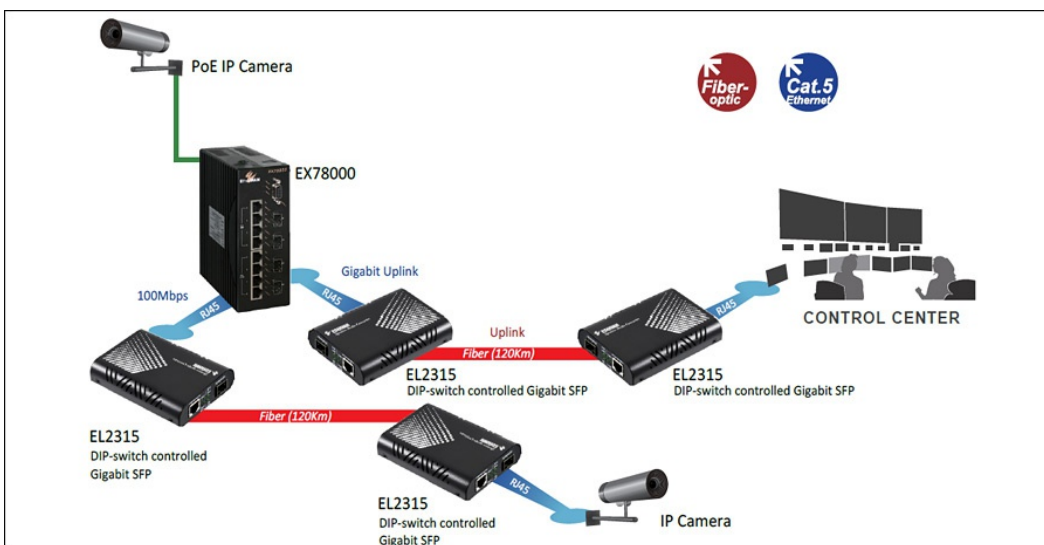
### ISO

Manufactured in an ISO 9001 facility

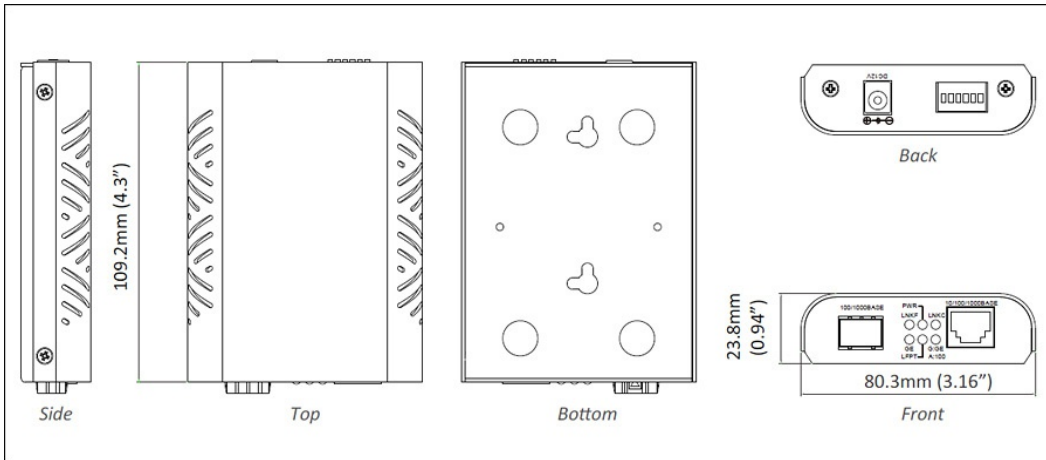
### Emission Compliances

CE Mark Class A  
 FCC Part 15B Class A  
 VCCI Class A

## Application



## Dimensions



## Ordering Info

### + Model

EL2315-X 10/100/1000BASE-TX to 100BASE/1000BASE-X Dual Rate SFP Media Converter

### + Power Adapter Options (X)

- A with external power adapter for AU
- E with external power adapter for EU
- J with external power adapter for JP
- K with external power adapter for UK
- U with external power adapter for USA
- 3C with external power adapter for China

### + Optional SFP Non-Hardened Type Gigabit Fiber Transceivers

| Model Name                | Distance  | Cable Type                     | Connector Type | Wavelength               | Link Budget** | Optical Sensitivity Output Power |
|---------------------------|-----------|--------------------------------|----------------|--------------------------|---------------|----------------------------------|
| EX-1250NSP-SB1L S         | 275m/550m | 62.5/125µm/50/125µm, Duplex MM | LC             | 850nm                    | 7.5dBm        | -9.5 to -17dBm<br>4dBm           |
| EX-1250TBP-MB1L S         | 550m      | 62.5/125µm/50/125µm, Single MM | LC             | TX: 1310nm<br>RX: 1550nm | 7dBm          | -10 to -17dBm<br>4dBm            |
| EX-1250TBP-LB1L S         | 550m      | 62.5/125µm/50/125µm, Single MM | LC             | TX: 1550nm<br>RX: 1310nm | 7dBm          | -10 to -17dBm<br>4dBm            |
| EX-1250TSP-MB4L S         | 10Km      | 9/125µm, SM                    | Duplex LC      | 1310nm                   | 11.5dBm       | -9.5 to -21dBm<br>3dBm           |
| EX-1250TBP-MB4L S         | 10Km      | 9/125µm, SM                    | Single LC      | TX: 1310nm<br>RX: 1550nm | 12dBm         | -9 to -21dBm<br>3dBm             |
| EX-1250TBP-KB4L S         | 10Km      | 9/125µm, SM                    | Single LC      | TX: 1550nm<br>RX: 1310nm | 12dBm         | -9 to -21dBm<br>3dBm             |
| EX-1250TBP-MB5L S         | 20Km      | 9/125µm, SM                    | Single LC      | TX: 1310nm<br>RX: 1550nm | 15dBm         | -8 to -23dBm<br>3dBm             |
| EX-1250TBP-KB5L S         | 20Km      | 9/125µm, SM                    | Single LC      | TX: 1550nm<br>RX: 1310nm | 15dBm         | -8 to -23dBm<br>3dBm             |
| EX-LS38-C3L-TC-N-EB (DDM) | 40Km      | 9/125µm, SM                    | Duplex LC      | 1310nm                   | 20dBm         | -3 to +2dBm<br>-23dBm            |
| EX-LS38-C3L-TC-N-CE (DDM) | 40Km      | 9/125µm, SM                    | Single LC      | TX: 1310nm<br>RX: 1550nm | 20dBm         | -3 to +2dBm<br>-23dBm            |
| EX-LS48-C3L-TC-N-CE (DDM) | 40Km      | 9/125µm, SM                    | Single LC      | TX: 1550nm<br>RX: 1310nm | 20dBm         | -3 to +2dBm<br>-23dBm            |

\* More SFP options upon request.

\*\* Link Budget data is based on pair of the same modules.

