

# 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.

## Spotlight

### • Gigabit Connectivity

- Auto 10/100/1000BASE-T X and 1000BASE-SX/LX/BX Ethernet transmission conversion
- 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)

- LFPT function let network operators be aware of network connection status
- When fiber link is down, LFPT function will turn down Ethernet port to inform connected device that the link is down and vice versa

# Hardware Specifications

## Technology

### Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3ab 1000BASE-T
- IEEE802.3z 1000BASE-SX/1000BASE-LX
- IEEE802.3x 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 IEEE802.3x full-duplex flow control
- Auto-MDI/MDIX

## Power

### Input Voltage

- 12VDC

### Power Consumption

- 2.76W Max. 0.23A @ 12VDC

## Mechanical

### Casing

- Aluminum Case

### Dimensions

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

### 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°C to 50°C (32°F to 122°F)

### Storage Temperature

- -10°C to 70°C (-14°F to 158°F)

### Ambient Relative Humidity

- 5% to 95% (non-condensing)

## Regulatory Approvals

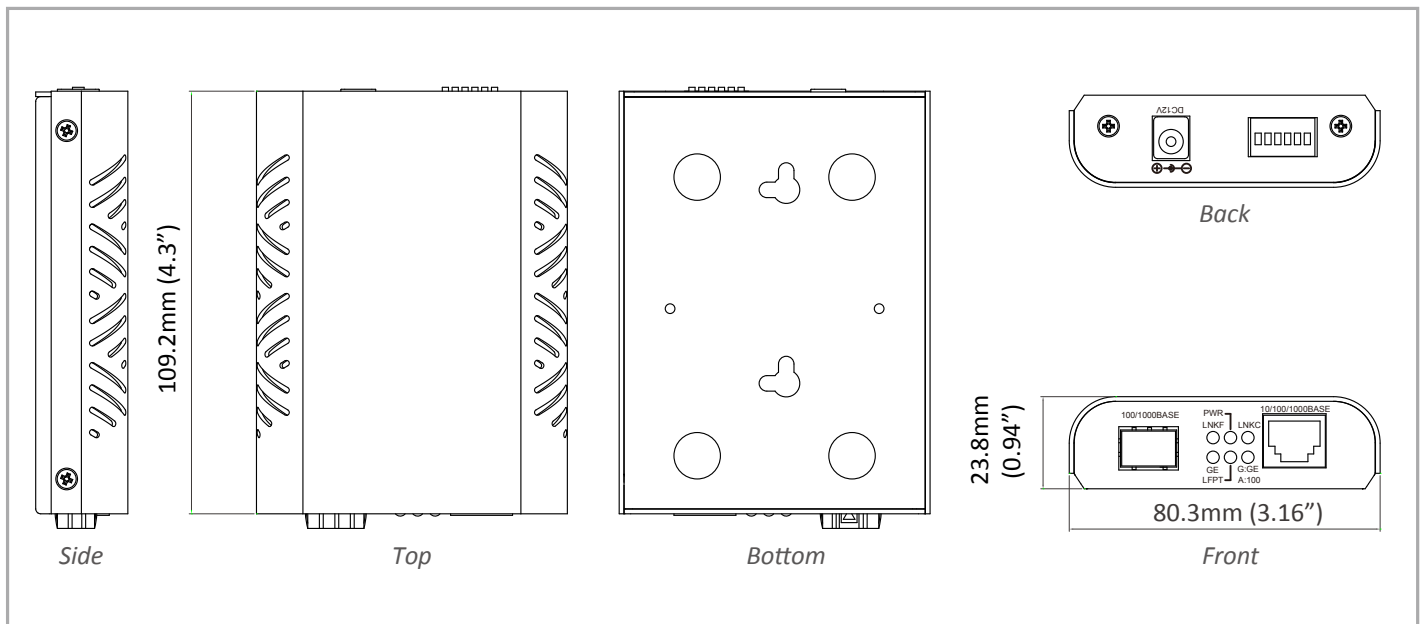
### ISO

- Manufactured in an ISO9001 facility

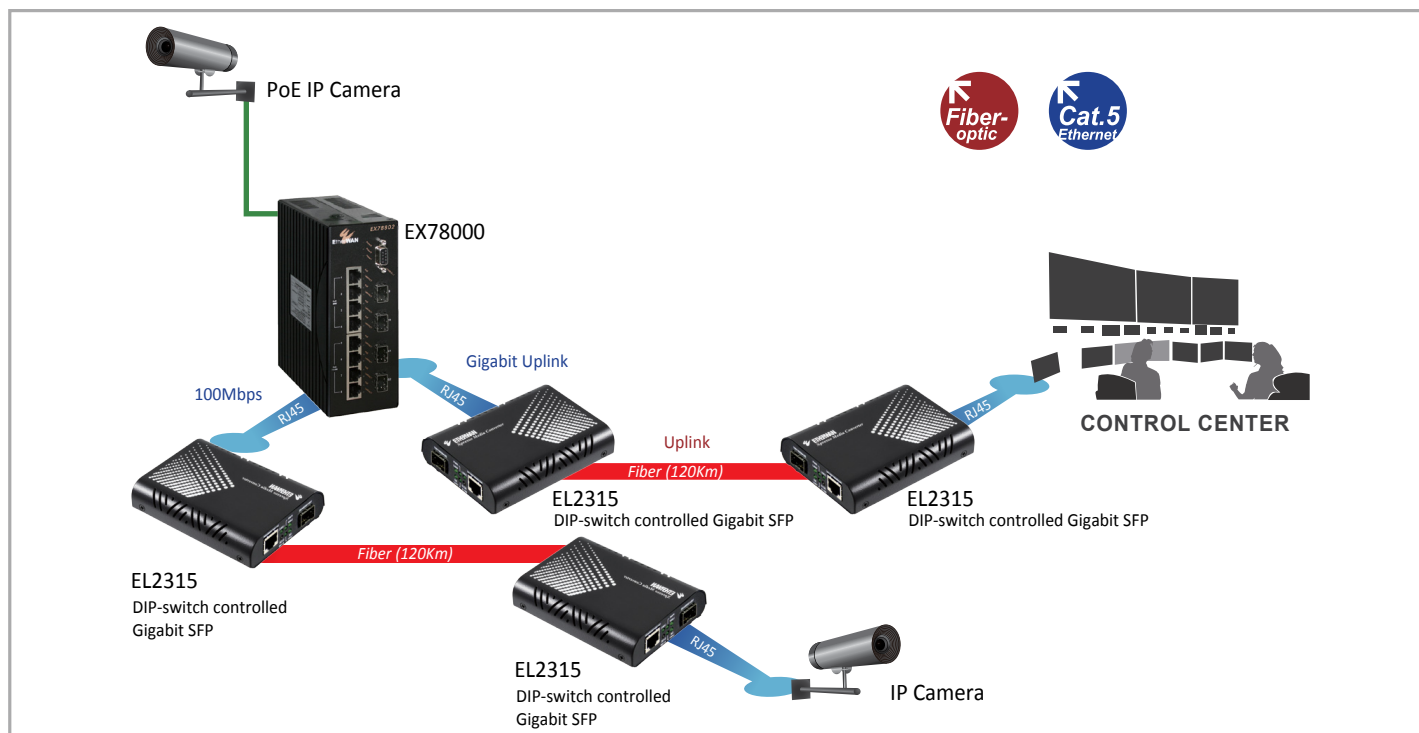
## Emission Compliance

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

## Dimensions



# Application Diagram



## Ordering Information

### Model

<b>EL2315-X</b>	10/100/1000BASE-TX to 100BASE/1000BASE-X Dual Rate SFP Media Converter
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### Power Adapter Options (X)

<b>A</b>	with external power adapter for AU
<b>E</b>	with external power adapter for EU
<b>J</b>	with external power adapter for JP
<b>K</b>	with external power adapter for UK
<b>U</b>	with external power adapter for USA
<b>3C</b>	with external power adapter for China

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

Part Number	Typical Distance	Wavelength (nm)	Cable Type	Connector
<b>EX-1250NSP-SB1L</b>	275M/500M	850	MM	Duplex LC
<b>EX-1250TSP-MB4L</b>	10KM	1310	SM	Duplex LC
<b>EX-1250TSP-NB6L</b>	40KM	1310	SM	Duplex LC
<b>EX-1250TBP-MB1L</b>	550M	TX:1310 / RX:1550	MM WDM-A	LC
<b>EX-1250TBP-LB1L</b>	550M	TX:1550 / RX:1310	MM WDM-B	LC
<b>EX-1250TBP-MB4L</b>	10KM	TX:1310 / RX:1550	SM WDM-A	LC
<b>EX-1250TBP-KB4L</b>	10KM	TX:1550 / RX:1310	SM WDM-B	LC
<b>EX-1250TBP-MB5L</b>	20KM	TX:1310 / RX:1550	SM WDM-A	LC
<b>EX-1250TBP-KB5L</b>	20KM	TX:1550 / RX:1310	SM WDM-B	LC
<b>EX-1250TBP-NB6L-D</b>	40KM	TX:1310 / RX:1550	SM WDM-A	LC
<b>EX-1250TBP-KB6L-D</b>	40KM	TX:1550 / RX:1310	SM WDM-B	LC

\* More SFP options also available upon request.

\* EMC1600 (available seperately), a proprietary 19" chassis system, can house up to 16xEM1000S/EM2000S Series media converters.