

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)**
 - 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

Hardware 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 122°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

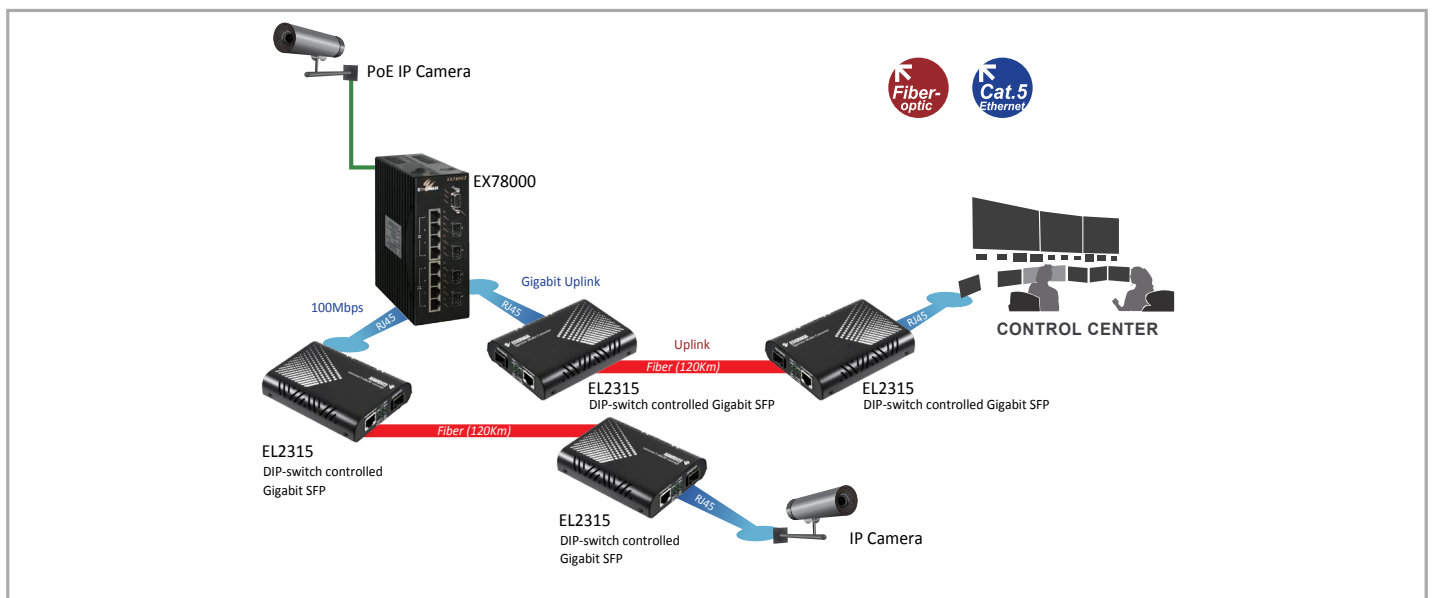
Emission Compliance

CE Mark Class A

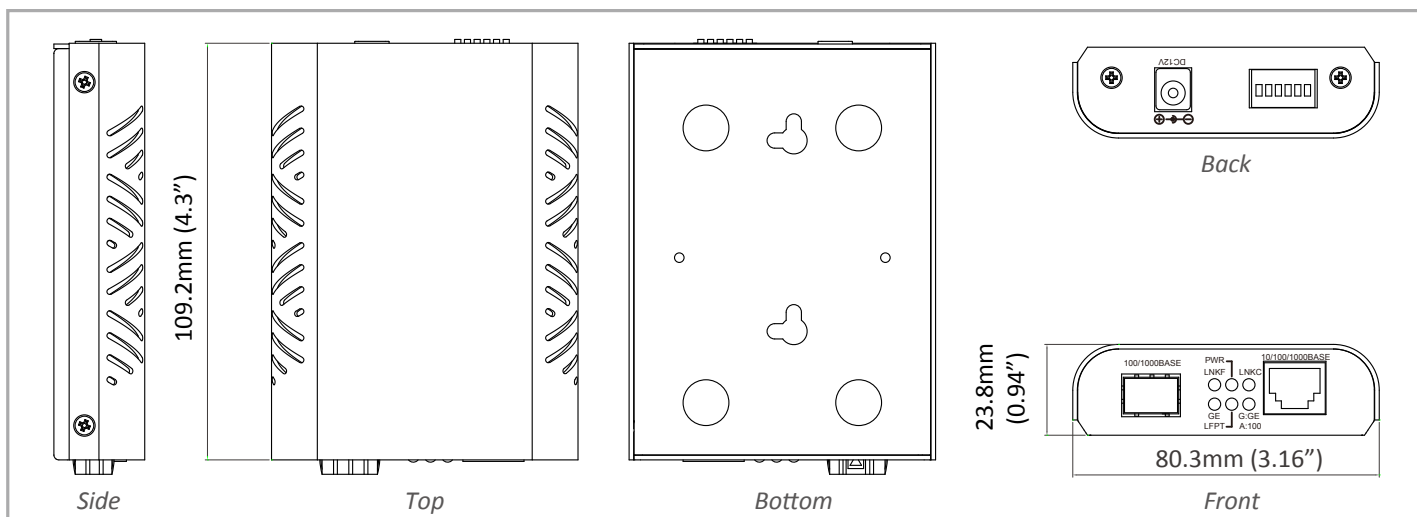
FCC Part 15B Class A

VCCI Class A

Application Diagram



Dimensions



Ordering Information

Model

EL2315-X	10/100/1000BASE-TX to 100BASE/1000BASE-X Dual Rate SFP Media Converter
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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 Output Power	Sensitivity
EX-1250NSP-SB1L S	275m/550m	62.5/125μm/50/125μm, MM	Duplex LC	850nm	7.5dBm	-9.5 to -4dBm	-17dBm
EX-1250TBP-MB1L S	550m	62.5/125μm/50/125μm, MM	Single LC	TX: 1310nm RX: 1550nm	7dBm	-10 to -4dBm	-17dBm
EX-1250TBP-LB1L S	550m	62.5/125μm/50/125μm, MM	Single LC	TX: 1550nm RX: 1310nm	7dBm	-10 to -4dBm	-17dBm
EX-1250TSP-MB4L S	10Km	9/125μm, SM	Duplex LC	1310nm	11.5dBm	-9.5 to -3dBm	-21dBm
EX-1250TBP-MB4L S	10Km	9/125μm, SM	Single LC	TX: 1310nm RX: 1550nm	12dBm	-9 to -3dBm	-21dBm
EX-1250TBP-KB4L S	10Km	9/125μm, SM	Single LC	TX: 1550nm RX: 1310nm	12dBm	-9 to -3dBm	-21dBm
EX-1250TBP-MB5L S	20Km	9/125μm, SM	Single LC	TX: 1310nm RX: 1550nm	15dBm	-8 to -3dBm	-23dBm
EX-1250TBP-KB5L S	20Km	9/125μm, SM	Single LC	TX: 1550nm RX: 1310nm	15dBm	-8 to -3dBm	-23dBm
EX-LS38-C3L-TC-N-EB (DDM)	40Km	9/125μm, SM	Duplex LC	1310nm	20dBm	-3 to +2dBm	-23dBm
EX-LS38-C3L-TC-N-CE (DDM)	40Km	9/125μm, SM	Single LC	TX: 1310nm RX: 1550nm	20dBm	-3 to +2dBm	-23dBm
EX-LS48-C3L-TC-N-CE (DDM)	40Km	9/125μm, SM	Single LC	TX: 1550nm RX: 1310nm	20dBm	-3 to +2dBm	-23dBm

* More SFP options upon request.

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