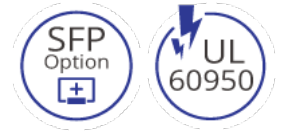


EL2315 Series

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."

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

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

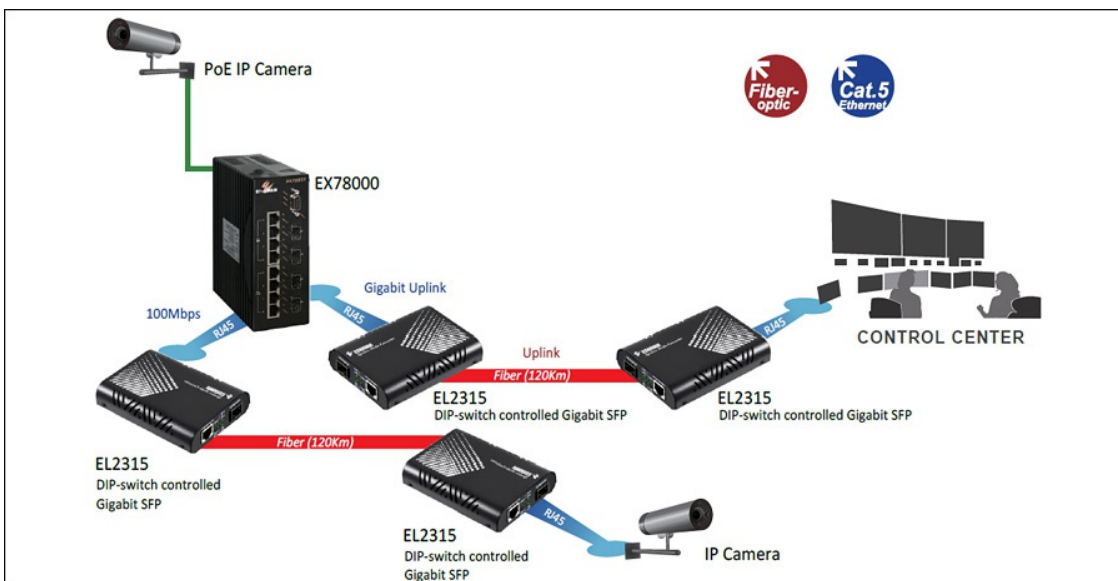
Emission Compliances

CE Mark Class A

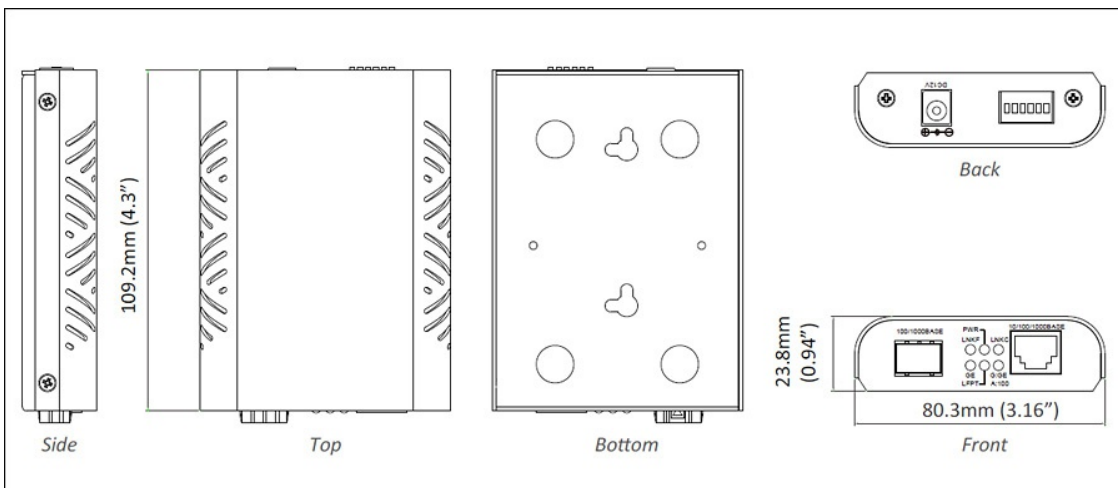
FCC Part 15B Class A

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 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.

