

EL2315 Series

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



Product Highlights

➤ 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

➤ 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

➤ 100/1000BASE-FX Dual Rate SFP Support

- DIP switch controlled 100BASE or 1000BASE SFP options

➤ DIP Switch Configurable

- Store-and-forward mode or converter mode selectable (default: store-and-forward mode)

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.

Ordering Information

Model

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

Gigabit Fiber Transceivers*

Optional SFP Non-Hardened Type (Operating Temperature: 0 to 70°C/32 to 158°F)

Models	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 L	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.

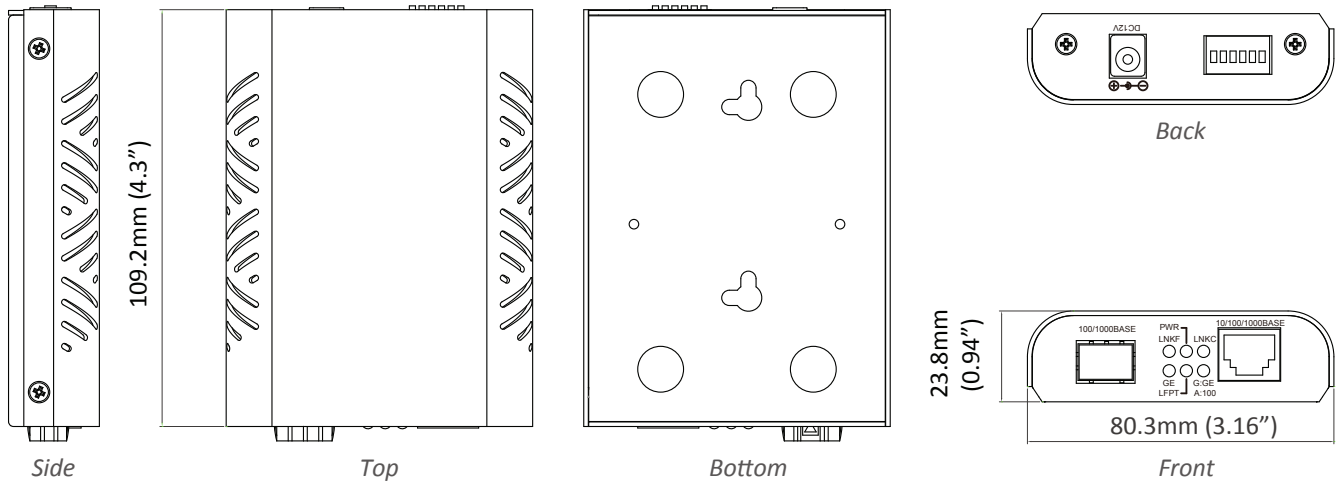
** Link Budget data is based on pair of the same modules

Hardware Specifications

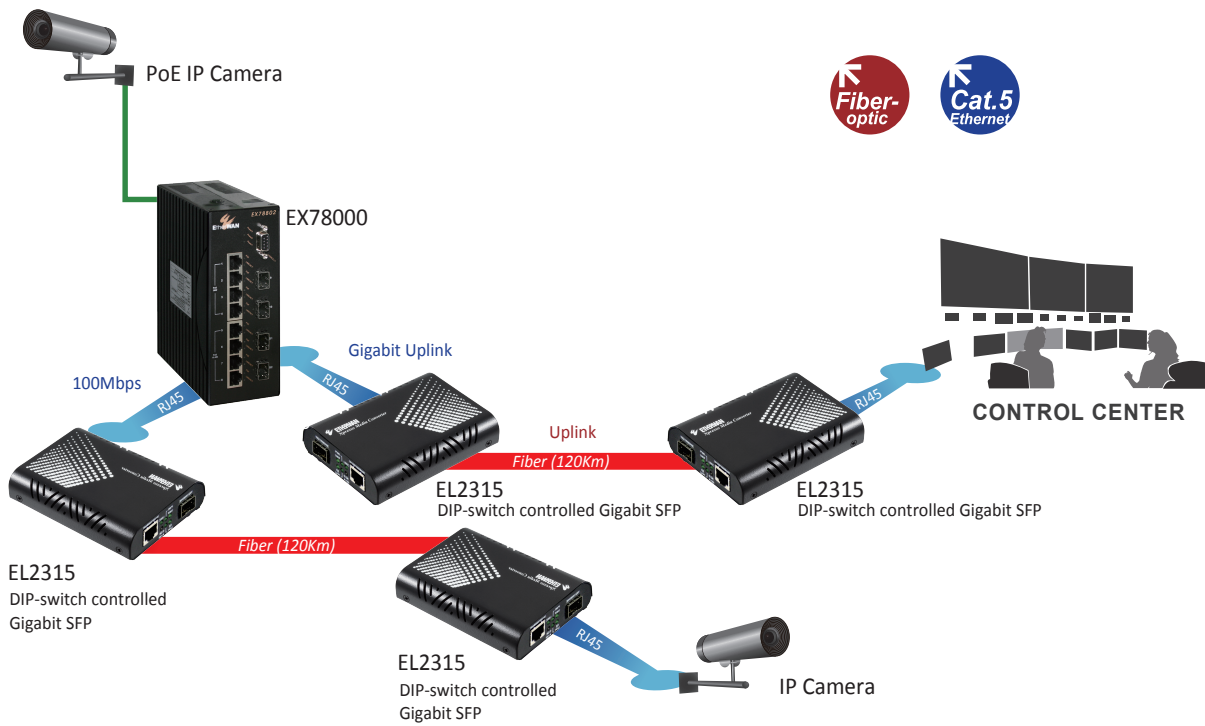
Interface	+
Ethernet Port	10/100/1000BASE-TX: 1 port 100/1000BASE SFP Slot: 1 port
DIP Switch	No.1: LFPT On/Off No.2: Auto-Negotiation/Force Mode for TX port No.3: Full-duplex/Half-duplex for TX port No.4: 100Mbps/10Mbps Force Mode for TX port No.5: 100Mbps/1000Mbps for SFP No.6: Function Reserved
LED Indicators	Per Unit: Power, LFPT Per Port: FX/TX Speed, Link/Activity
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/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

Physical	+
Casing Material	Aluminum
Dimensions	80.3 x 109.2 x 23.8mm (W x D x H) (3.16" x 4.3" x 0.94")
Weight	0.15kg (0.33lbs)
Installation Type	Wall mounting, or in EMC1600 Chassis System
Environmental	+
Operating Temp.	0 to 50°C (32 to 122°F)
Storage Temp.	-10 to 70°C (-14 to 158°F)
Relative Humidity	5% to 95% (non-condensing)
Regulatory	+
ISO	Manufactured in ISO-9001 facility
Safety	UL 62368-1
Emission Compliance	CE Mark Class A FCC Part 15B Class A VCCI Class A
Warranty	+
Length	Limited Lifetime
Details	www.etherwan.com/support/warranty-policy
What's Included	+
Device	Media Converter
Power	12VDC Power Adapter
Documentation	Quick Install Guide

Dimensions



Application



Accessories

Multiple Channel Chassis



www.etherwan.com/products/media-converters/multiple-channel-media-converters