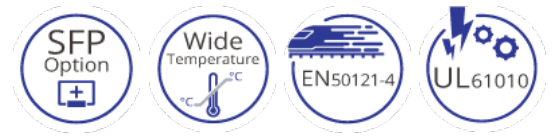


EL8100 Series

Hardened 10/100/1000BASE-TX to 1000BASE-SX/LX/BX Media Converter



Overview

The EL8100 Series provides media conversion between 10/100/1000BASE-TX and 1000BASE-SX/LX/BX Fiber. Built specifically for mission critical applications in harsh environments, the EL8100's hardened design features high shock & vibration resistance, electrical noise immunity, wide operating temperature range from -40 to 75°C (-40 to 167°F), and aluminum housing. With two power inputs, link down alarming, Link-Fault-Pass-Through and a wide range of fiber connectivity options, the EL8100 is the ideal media converter for environments where connectivity is crucial.

EtherWAN — "When Connectivity is Crucial."

Spotlight

Full Gigabit bandwidth and Jumbo frames

- » 10/100/1000BASE-T and 1000BASE-SX/LX/BX Ethernet transmission conversion
- » 1000Mbps Full duplex and full wire-speed forwarding rate
- » Jumbo frames up to 10K bytes to increase throughput and transmission efficiency

Port Failure Alarm

- » Relay alarm configured by DIP switch to notify users when power fails or link is down

Hardened Grade

- » Supports -40 to 75°C (-40 to 167°F) operating temperature
- » Redundant power inputs on terminal block connector
- » Supports DIN-Rail mounting

Link-Fault-Pass-Through (LFPT)

- » Provides constant monitoring of the links connected to the media converters
- » If a copper or a fiber link 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
- IEEE 802.3ab 1000BASE-T

Forward and Filtering Rate

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

Processing Type

- Auto Negotiation
 - Auto MDI/MDIX
-

Power

Input

- 12-48VDC

Power Consumption

- 0.912W Max, 76mA@12VDC, 38mA@24VDC, 19mA@48VDC

Protection

- Overload Current Protection
 - Reverse Polarity Protection
-

Mechanical

Casing

- Aluminum Case
- IP30

Dimensions

- 35.8 x 90 x 100mm (W x D x H)

(1.41" x 3.54" x 3.94")

Weight

- 0.23Kg (0.51lbs.)

Installation

- DIN-Rail
-

Interface

Ethernet Port

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

LED Indicators

- Per Unit: Power 1, Power 2, Fault, LFPT
- Per Port: Link/Activity

DIP Switch

- No.1: LFPT On/Off
- No.2: Alarm for copper port On/Off
- No.3: Alarm for fiber port On/Off
- No.4: Auto-negotiation for fiber port On/Off

Alarm Contact

- Relay contact rating with current 0.6A/30VDC
-

Environment

Operating Temperature

- -40 to 75°C (-40 to 167°F)

Storage Temperature

- -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity

- 5% to 95% (non-condensing)
-

Regulatory Approvals

ISO

- Manufactured in an ISO 9001 facility

Safety

UL 61010

Industrial Compliance

EN 50121-4

EMI

FCC Part 15B Class A

VCCI Class A

EN 55032

EN 61000-3-2

EN 61000-3-3

EN 61000-6-3

EMS

EN 61000-6-2

- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated RFI Standards)
- EN 61000-4-4 (Burst Standards)
- EN 61000-4-5 (Surge Standards)
- EN 61000-4-6 (Induced RFI Standards)
- EN 61000-4-8 (Magnetic Field Standards)

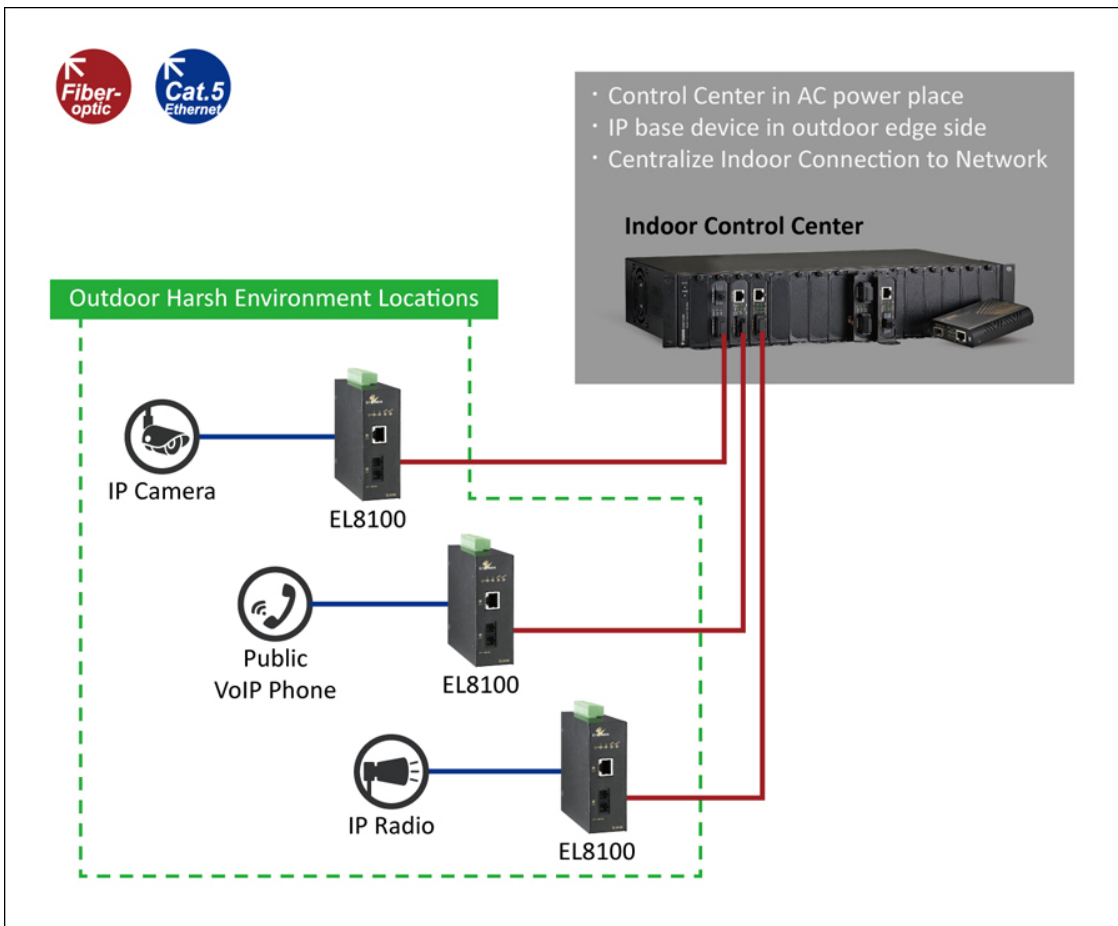
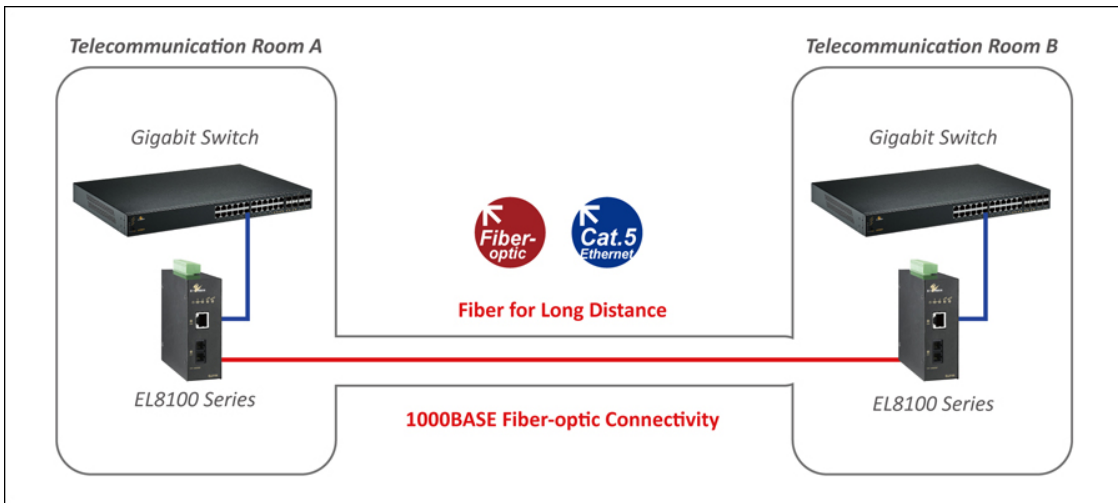
Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration Resistance)

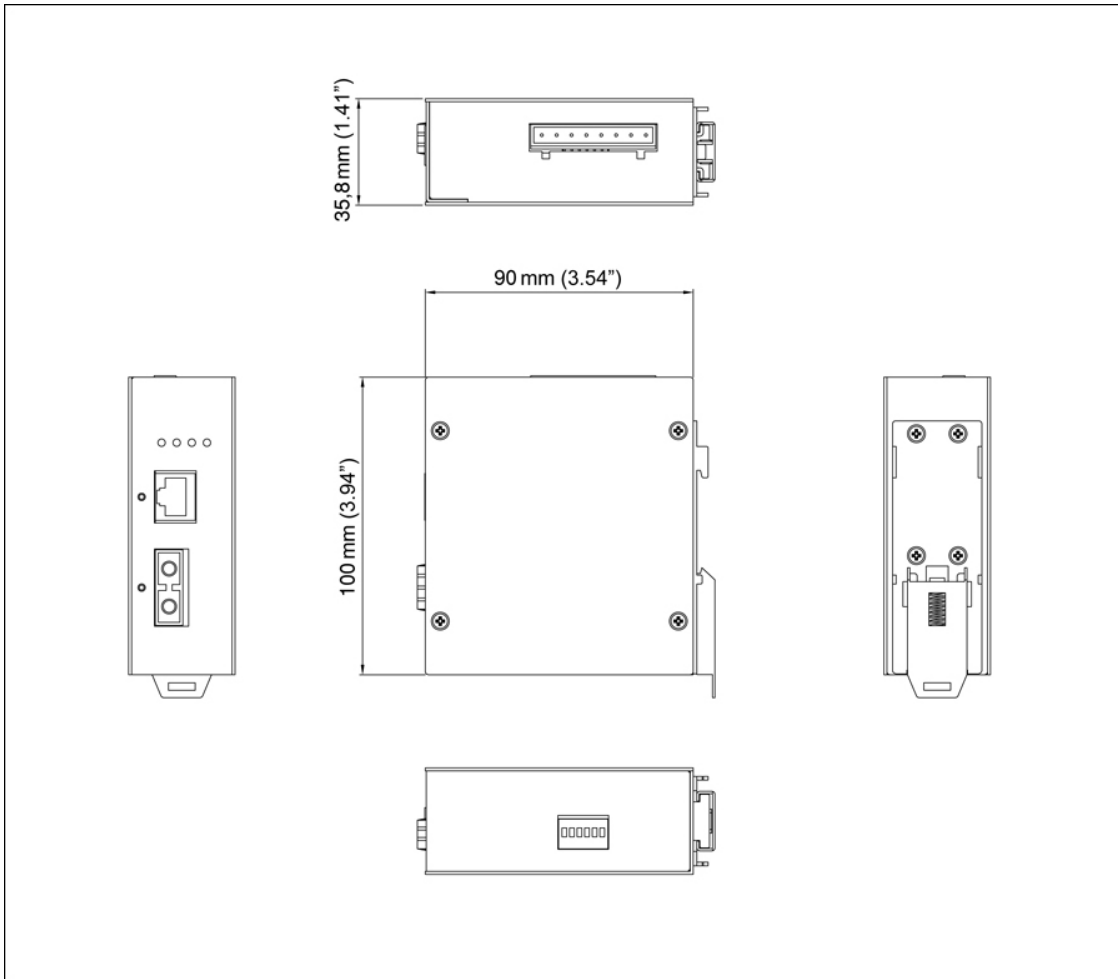
IEC 60068-2-27 Ea (Shock)

FED STD 101C Method 5007.1 (Free fall w/package)

Application



Dimensions



Ordering Info

Model

EL8100-X1E	10/100/1000BASE-TX to 1000BASE-SX/LX/BX Hardened Media Converter
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Gigabit Fiber Options (X)

3	1000BASE-SX (SC) - 550m
4	1000BASE-SX (SC) - 2Km
5	1000BASE-SX (ST) - 550m
A	1000BASE-LX (SC) - 10Km
B	1000BASE-LX (SC) - 20Km
I	1000BASE-LX (ST) - 20Km
R	1000BASE-BX (SC) WDM-TX: 1310nm/RX: 1550nm-20Km
S	1000BASE-BX (SC) WDM-TX: 1550nm/RX: 1310nm-20Km

* More Gigabit options are also available upon request.

