

## EL8100 系列

強固級 10/100/1000BASE-TX轉1000BASE-SX/LX/BX 光電轉換器



### 產品介紹

EL8100系列為強固級鋁軌式安裝之光電轉換器，具備1個10/100/1000BASE-TX乙太網路埠搭配1個1000BASE-SX/LX/BX光纖埠。EL8100系列專為工業環境設計打造，工業等級設計可承受強力的落摔衝擊、防震動及抗電磁波干擾，可在-40到75°C寬溫環境下穩定運作，並支援雙電源輸入、斷電斷線告警、Link Fault Pass Through (LFPT)且支援彈性光纖規格選擇，是嚴苛場域應用之最佳解決方案。

EtherWAN — "When Connectivity is Crucial."

### 產品亮點

#### + 支援全Gigabit頻寬及Jumbo frames

具備1個10/100/1000BASE-T 乙太網路埠搭配1個1000BASE-SX/LX/BX/SFP光纖埠  
支援1000Mbps Full duplex和Full wire-speed forwarding rate  
支援Jumbo Frame最高達10K bytes

#### + 強固等級設計

寬溫操作(-40到75°C)  
端子台支援備援電源輸入  
支援鋁軌式安裝

#### + 埠斷訊告警

透過DIP Switch設定當斷電或斷電時對使用者發出告警

#### + 支援Link-Fault-Pass-Through (LFPT)

針對光電轉換器連線狀態提供持續的監控  
自動斷開故障連結，避免封包持續傳送，快速偵測到網路連線的錯誤

## 產品規格

### + 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 100Mbps

1,488,100pps for 1000Mbps

#### Processing Type

Auto Negotiation

Auto MDI/MDIX

### + Interface

#### Ethernet Ports

10/100/1000BASE-TX: 1 port

#### LED Indicators

Per Unit: Power 1, Power 2, Fault, LFPT

Per Port: Link/Activity

#### DIP Switches

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

## + 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

## + 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 FRI 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)

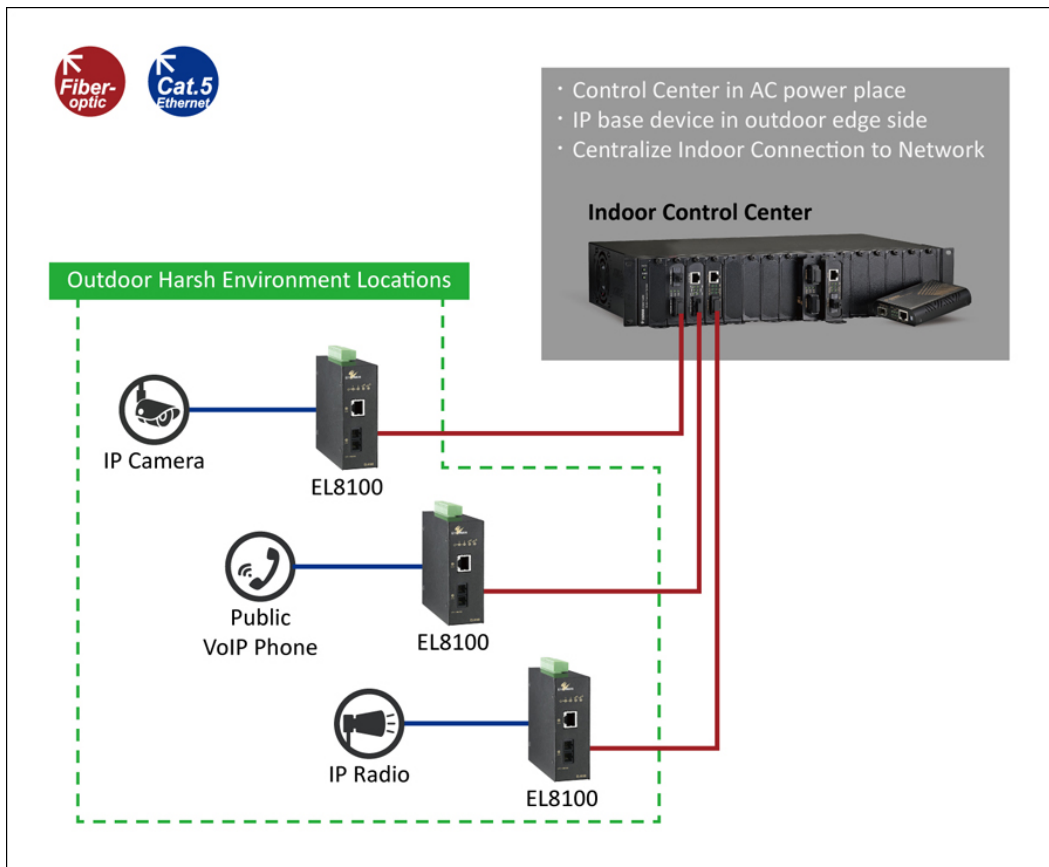
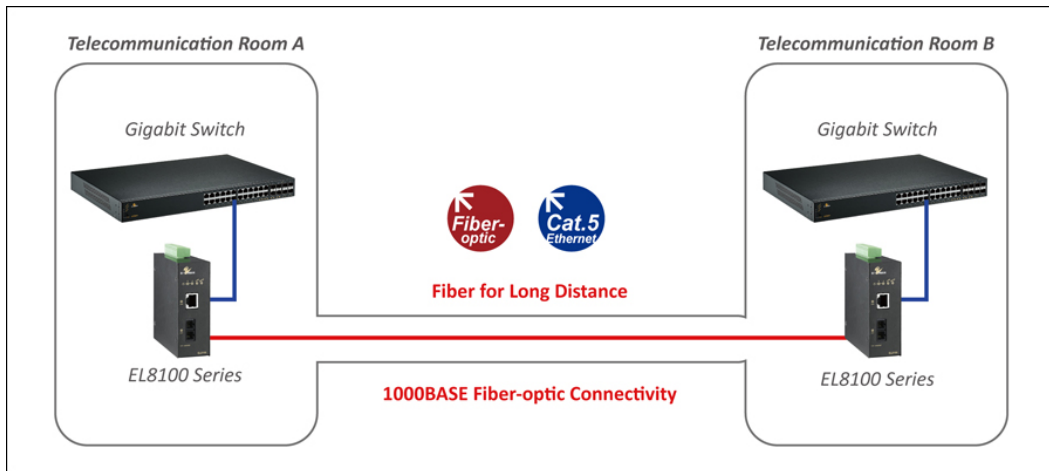
### Environmental Test Compliances

IEC 60068-2-6 Fc (Vibration)

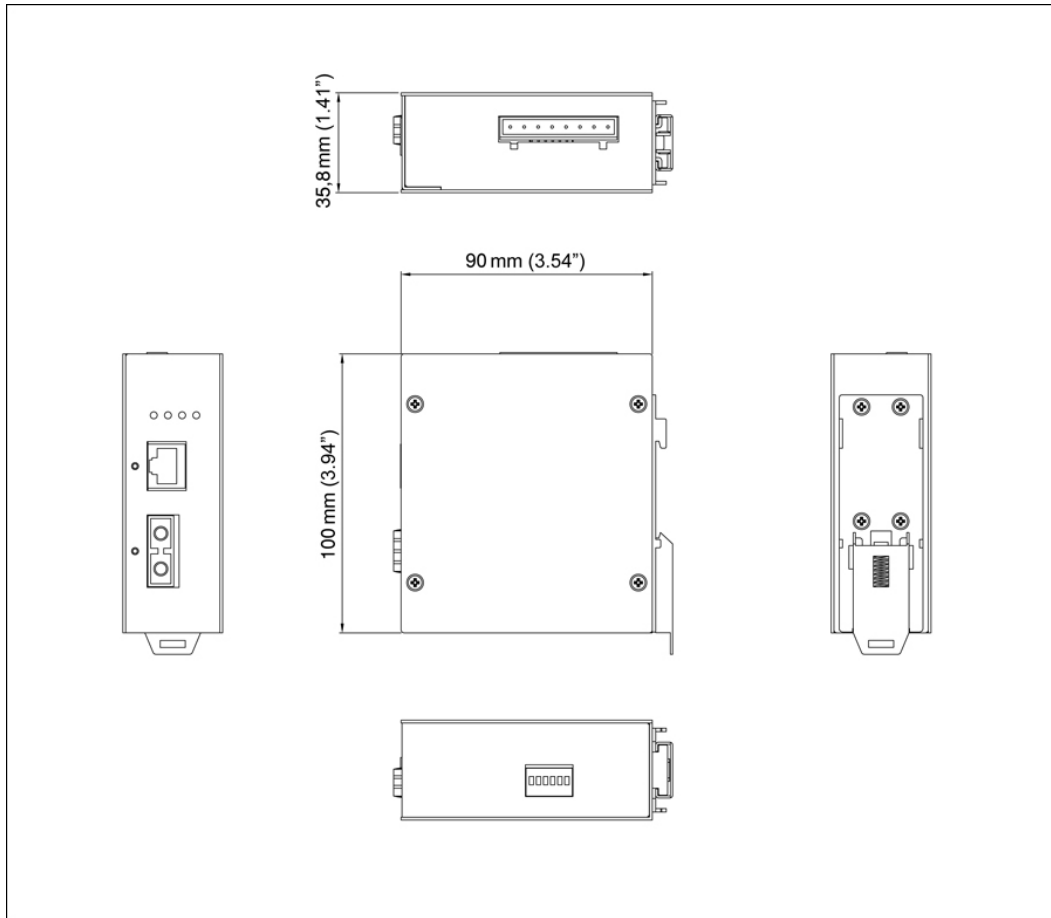
IEC 60068-2-27 Ea (Shock)

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

## 產品應用圖



## 產品尺寸圖



## 訂購型號

### + 型號

EL8100-X1E	10/100/1000BASE-TX to 1000BASE-SX/LX/BX Hardened Media Converter
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### + Gigabit Fiber 選項 (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
J	1000BASE-LX (ST) - 40Km
R	1000BASE-BX (SC) WDMR-TX: 1310nm/RX: 1550nm-20Km
S	1000BASE-BX (SC) WDM-TX: 1550nm/RX: 1310nm-20Km

\* 可根據需求提供更多 Gigabit 選項。

