

## EL8020 系列

強固級 10/100/1000BASE-TX轉100/1000 SFP 光電轉換器



### 產品介紹

EL8020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100/1000 SFP光纖埠。EL8020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

1000BASE-T 和 1000BASE-SX/LX/BX/SFP光纖傳輸轉換  
1000Mbps 全雙工和全線速傳輸率  
支援Jumbo Frame最高達10K bytes

#### + 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

#### + 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

#### + 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

100/1000 SFP: 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

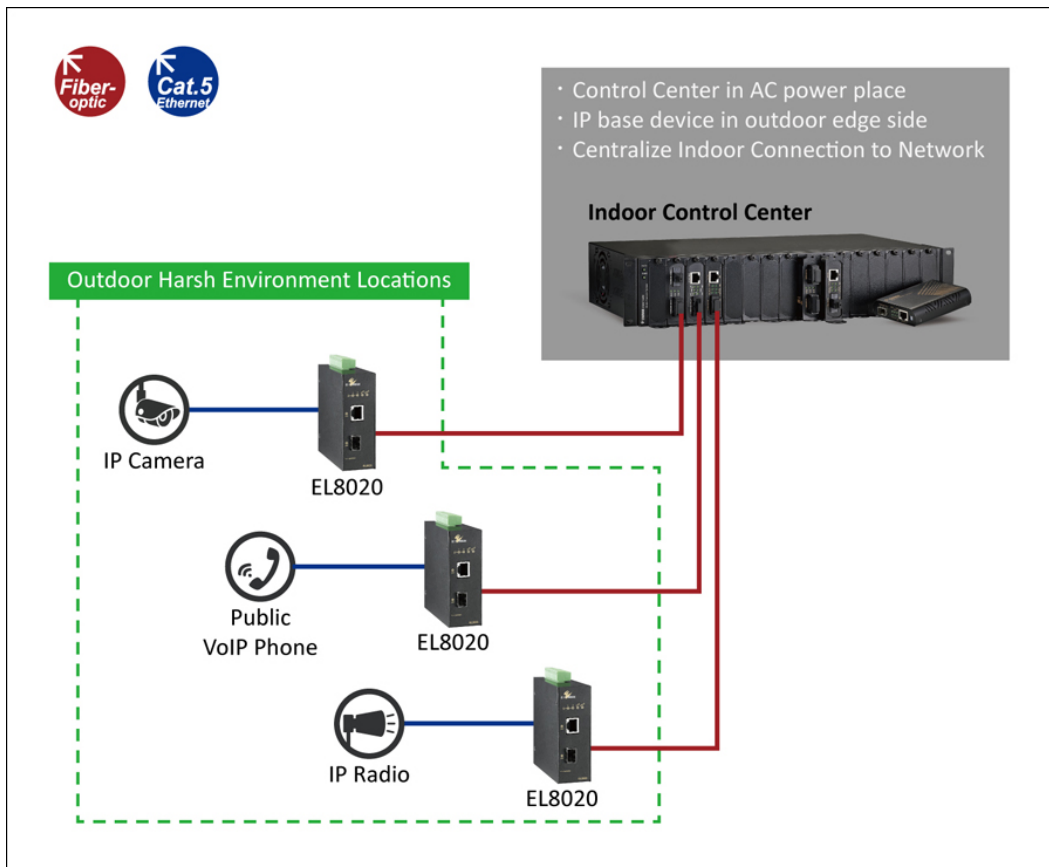
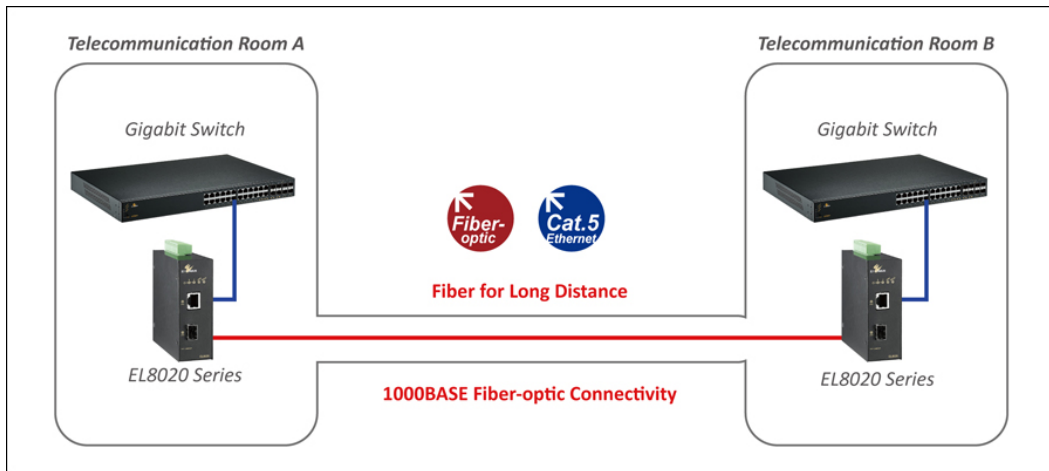
**Safety**  
UL 61010

**EMI**  
FCC Part 15B Class A  
VCCI Class A  
EN 55032  
EN 61000-3-2  
EN 61000-3-3  
EN 61000-6-3

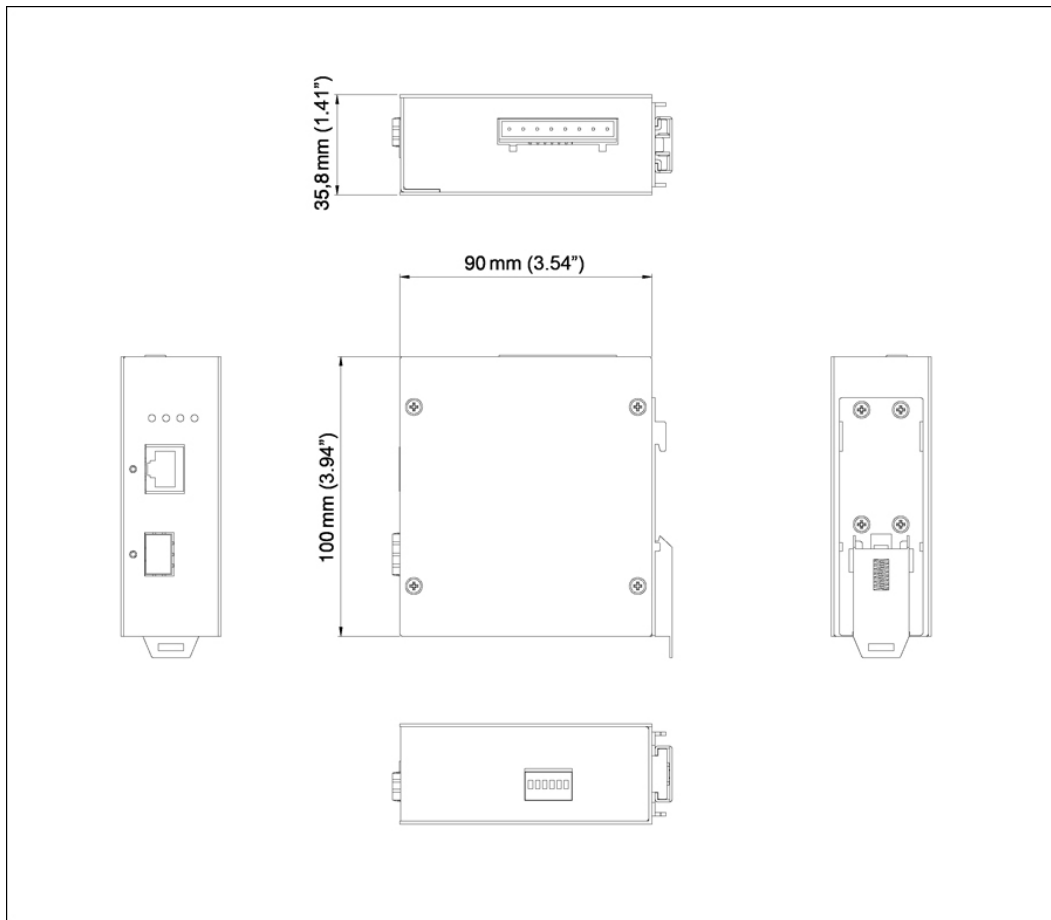
**EMS**  
EN 61000-6-2  
• EN 61000-4-2 (ESD Standards)  
• EN 61000-4-3 (Radiated FRI Standards)  
• EN 61000-4-4 (Burst Standards)  
• EN 61000-4-5 (Surge Standards)  
• EN 61000-4-6 (Induced RFI Standards)  
• EN 61000-4-8 (Magnetic Field Standards)

**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

EL8020-V1E	10/100/1000BASE-TX to 100/1000 SFP Hardened Media Converter
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