

## EL8020 系列

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



### 產品介紹

The EL8020 Series provides media conversion between 10/100/1000BASE-TX and 100/1000 SFP Fiber. Built specifically for mission critical applications in harsh environments, the EL8020'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 EL8020 is the ideal media converter for environments where connectivity is crucial.

EtherWAN — "When Connectivity is Crucial."

## 產品亮點

### Full Gigabit bandwidth and Jumbo frames

- » 10/100/1000BASE-TX and 100/1000 SFP 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

## 產品規格

### 技術

#### 標準

- 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

#### 傳輸型式

- Auto Negotiation
  - Auto MDI/MDIX
- 

### 電源

#### 輸入電壓

- 12-48VDC

#### 電力功耗

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

#### Protection

- Overload Current Protection
  - Reverse Polarity Protection
- 

### 機構

#### 機殼

- Aluminum Case
- IP30

#### 尺寸

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

(1.41" x 3.54" x 3.94")

#### 重量

- 0.23Kg (0.51lbs.)

#### 安裝方式

- DIN-Rail
- 

### 介面

#### 乙太網路埠

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

#### LED 指示燈號

- 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
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### 環境

#### 工作溫度

- -40 to 75°C (-40 to 167°F)

#### 儲存溫度

- -40 to 85°C (-40 to 185°F)

#### 工作濕度

- 5% to 95% (無凝結)
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## 通過認證

### 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

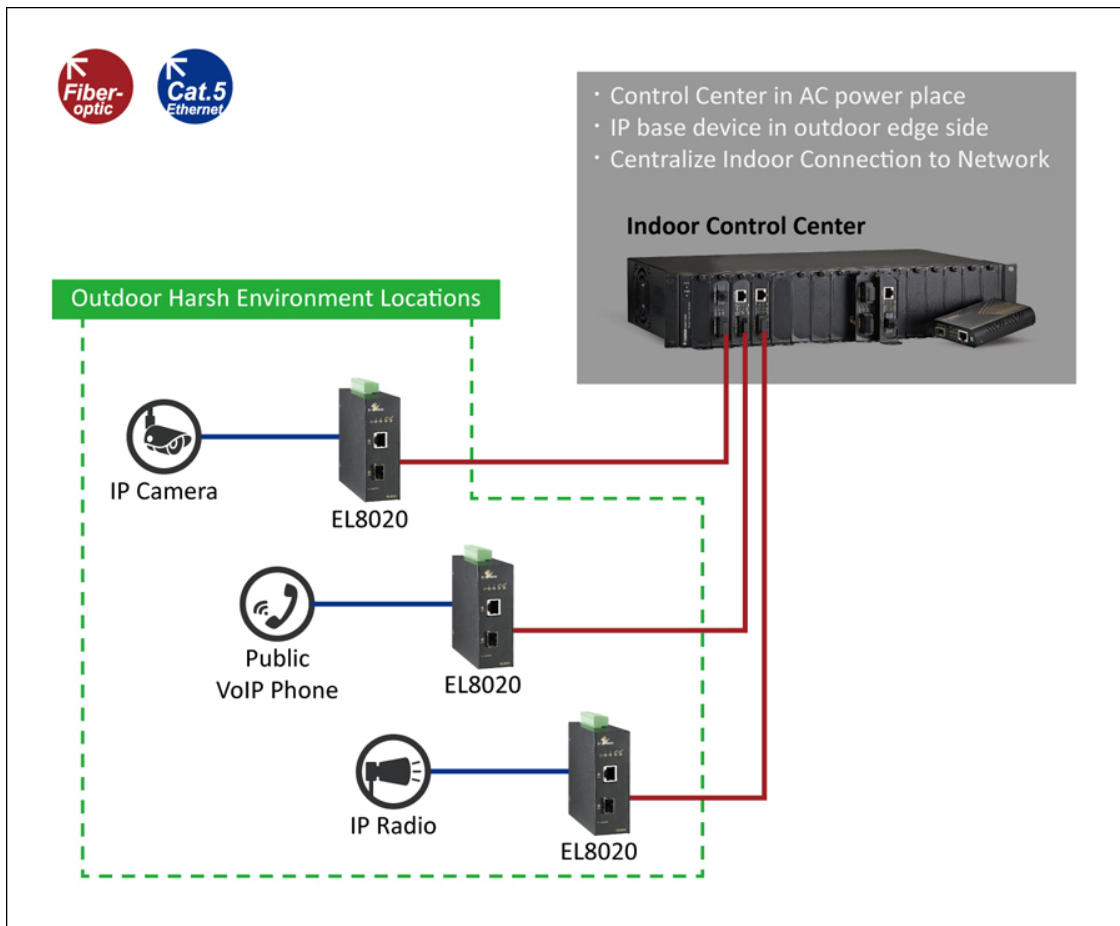
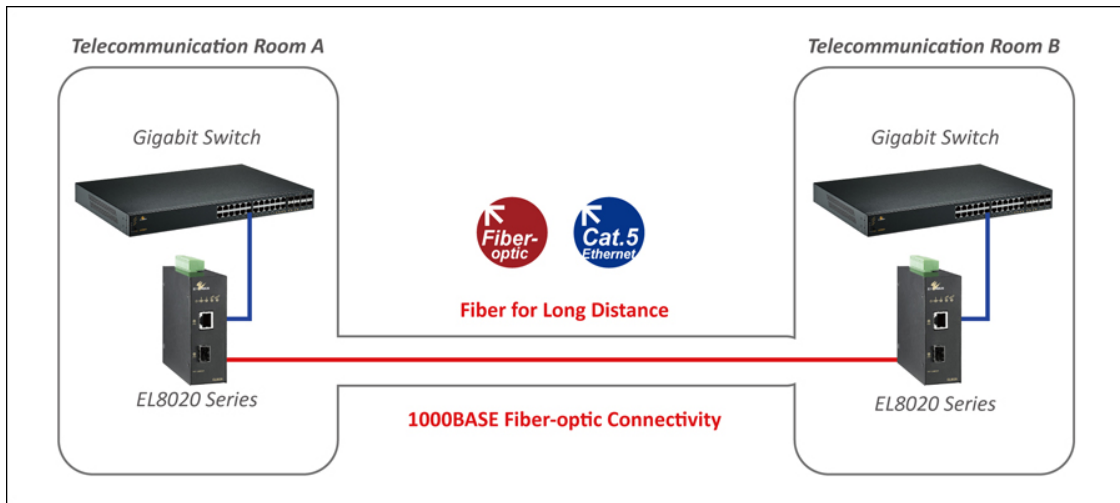
IEC 60068-2-6 Fc (Vibration Resistance)

IEC 60068-2-27 Ea (Shock)

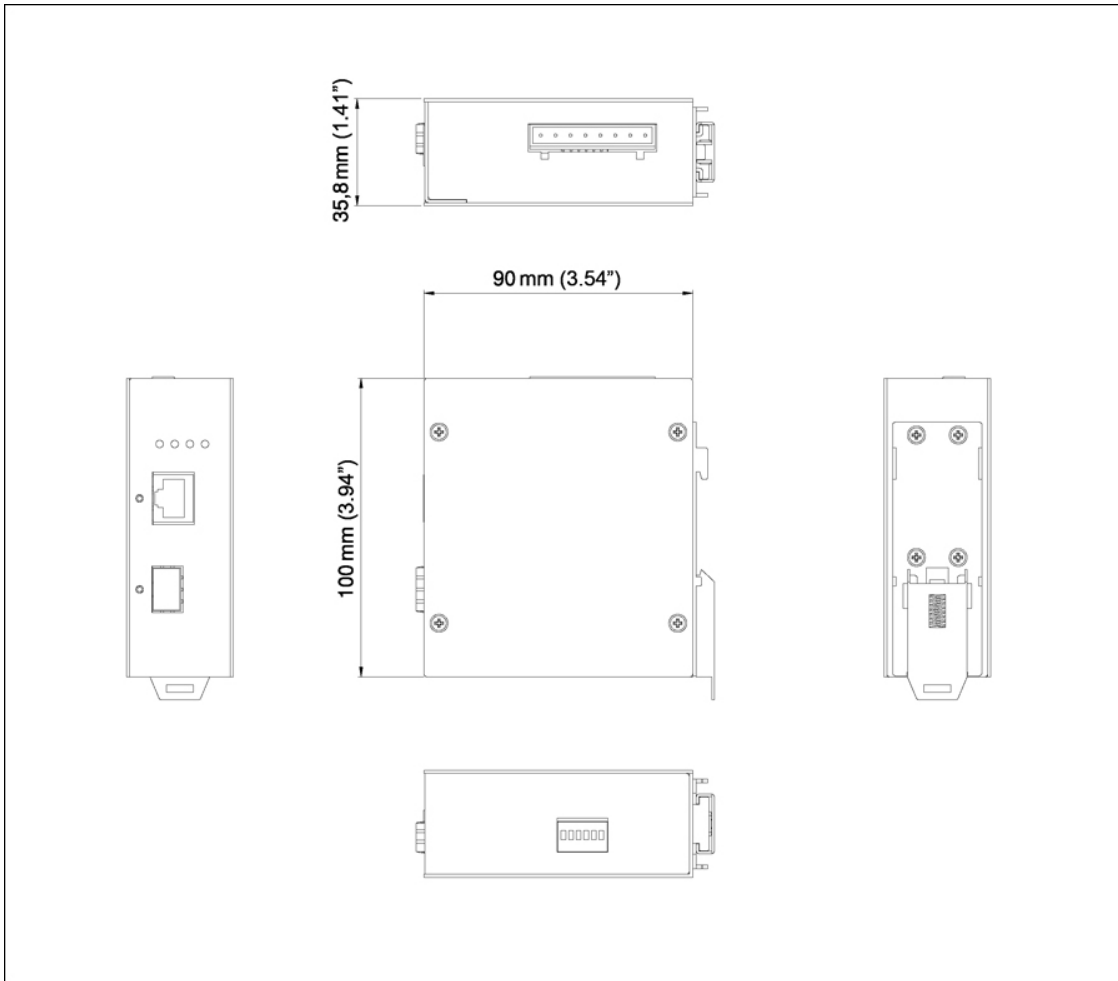
FED STD 101C Method 5007.1 (Free fall w/package)

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## 產品應用圖



## 產品尺寸圖



## 訂購型號

### 型號

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