



**EtherWAN**

[migrate-ed9.hellosanta.tw/tw/products/el8020-series](http://migrate-ed9.hellosanta.tw/tw/products/el8020-series) EL8020 ??

EL8020 ??

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



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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."

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### 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

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  - • 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
  - 
  - ????
  - • Auto Negotiation
  - • Auto MDI/MDIX
- 

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- ????
  - • 12-48VDC
  - 
  - ????
  - • 0.912W Max, 76mA@12VDC, 38mA@24VDC, 19mA@48VDC
  - 
  - **Protection**
  - • Overload Current Protection
  - • Reverse Polarity Protection
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- ??
- • Aluminum Case
- • IP30
- 
- ??
- • 35.8 x 90 x 100mm (W x D x H)  
(1.41" x 3.54" x 3.94")
- 
- ??
- • 0.23Kg (0.51lbs.)
-

- ????
  - DIN-Rail
- 

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- ?????
  - 10/100/1000BASE-TX: 1 port
  - 100/1000 SFP: 1 port
  - 
  - **LED ????**
  - 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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- ????
  - -40 to 75°C (-40 to 167°F)
  - 
  - ????
  - -40 to 85°C (-40 to 185°F)
  - 
  - ????
  - 5% to 95% (???)
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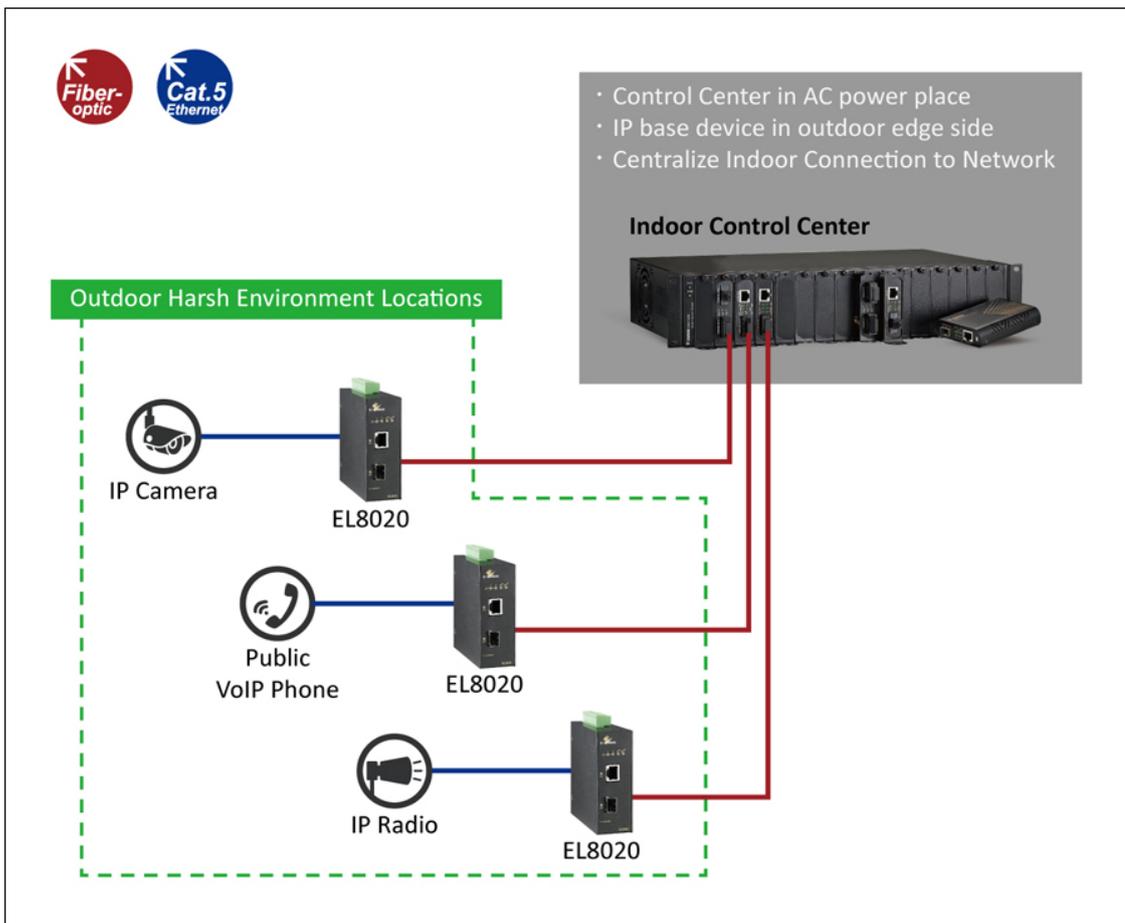
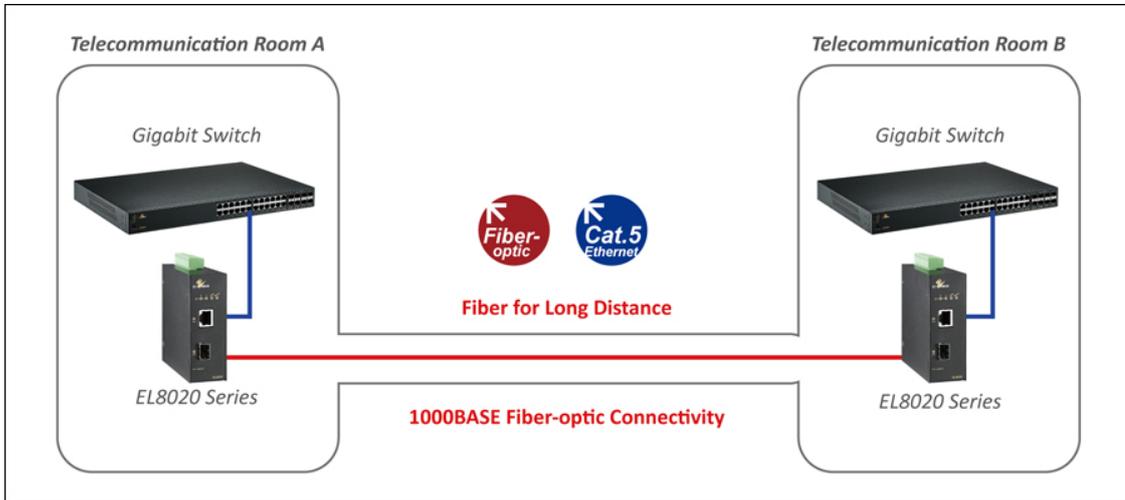
- **ISO**
- Manufactured in an ISO 9001 facility
- 
- **Safety**
- UL 61010
- 
- **Industrial Compliance**
- EN 50121-4
- 
- **EMI**
- FCC Part 15B Class A
- VCCI Class A
- EN 55032
- EN 61000-3-2
- EN 61000-3-3
- EN 61000-6-3
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- **EMS**
- EN 61000-6-2
  - 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)

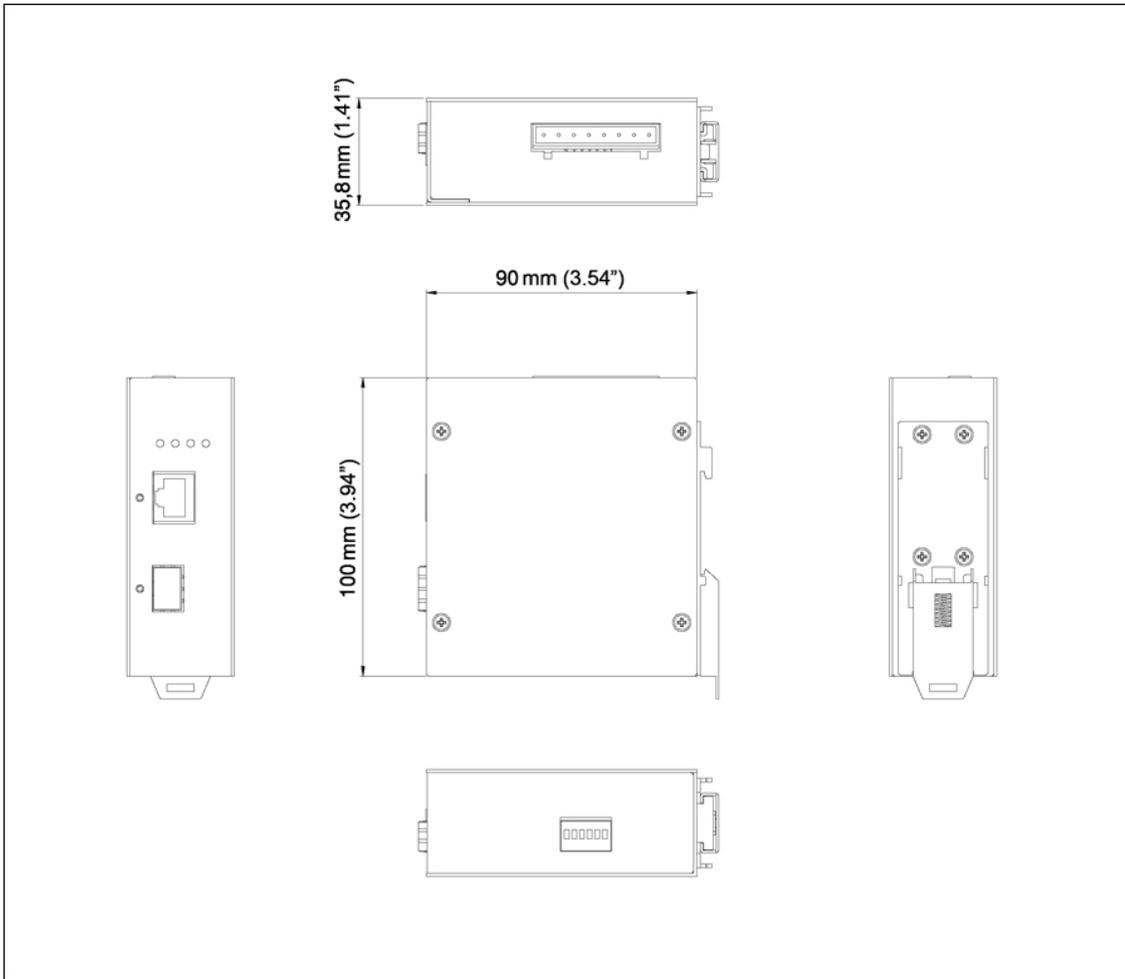
- **Environmental Test Compliance**

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

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EtherWAN is constantly developing and improving products. Specifications are subject to change without notice and without incurring any obligation.