

EL8020 Series

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



Overview

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."

Spotlight

+ Full Gigabit bandwidth and Jumbo frames + Hardened Grade

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

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

+ Port Failure Alarm

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

+ 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 100Mbps
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 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

+ 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

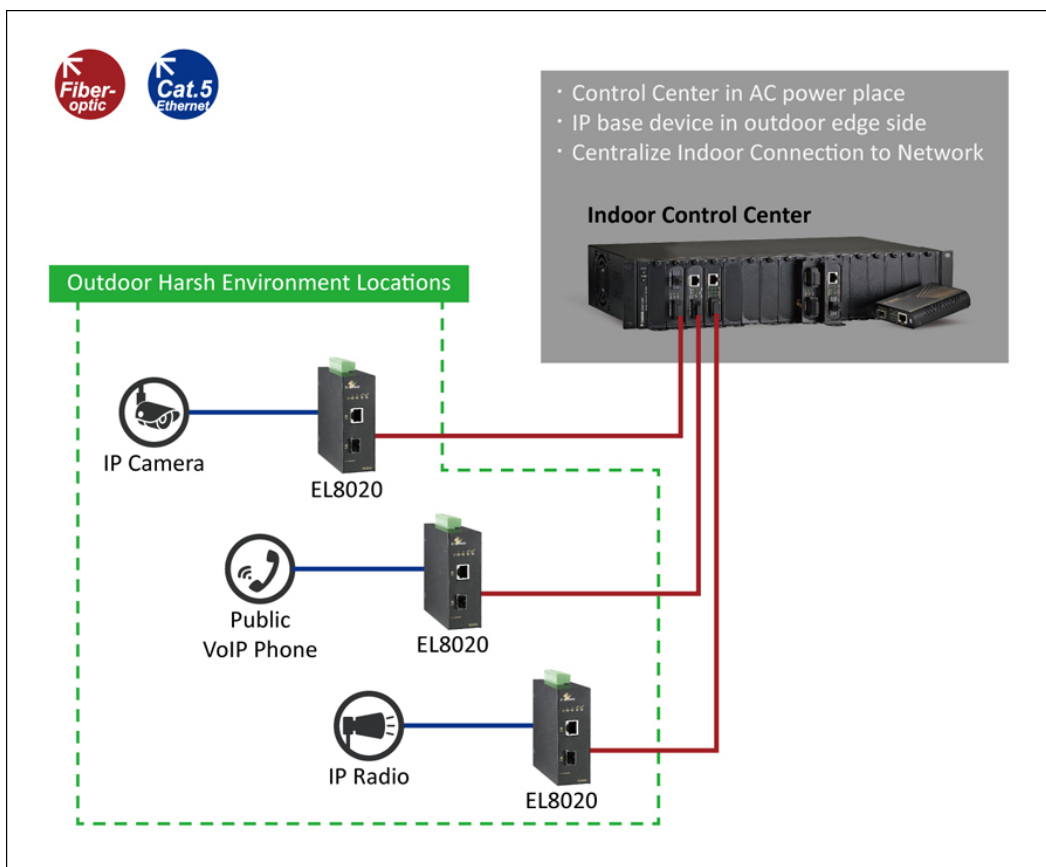
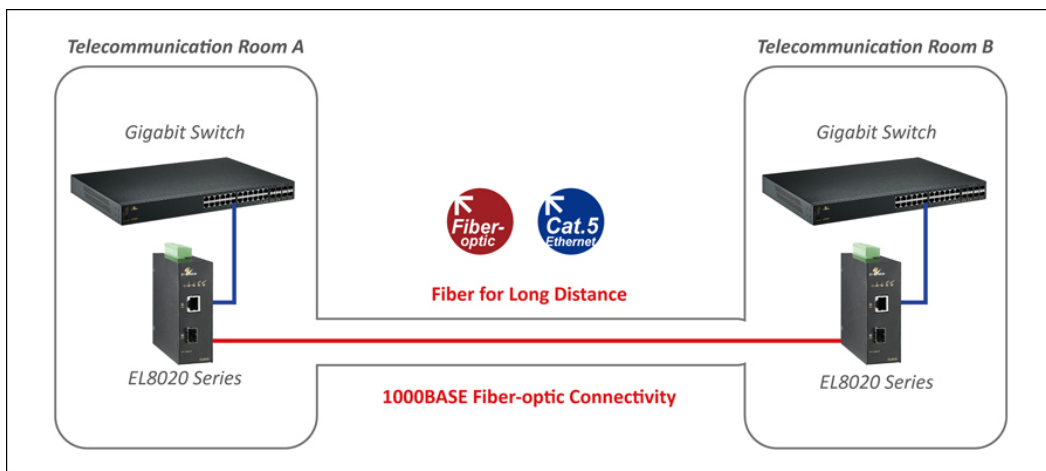
EN 61000-6-2
• EN 61000-4-2 (ESD Standards)
• EN 61000-4-3 (Radiated FRI Standards)
• EN 61000-4-4 (Burst Standards)
• EN 61000-4-5 (Surge Standards)
• EN 61000-4-6 (Induced RFI Standards)
• EN 61000-4-8 (Magnetic Field Standards)

Environmental Test Compliances

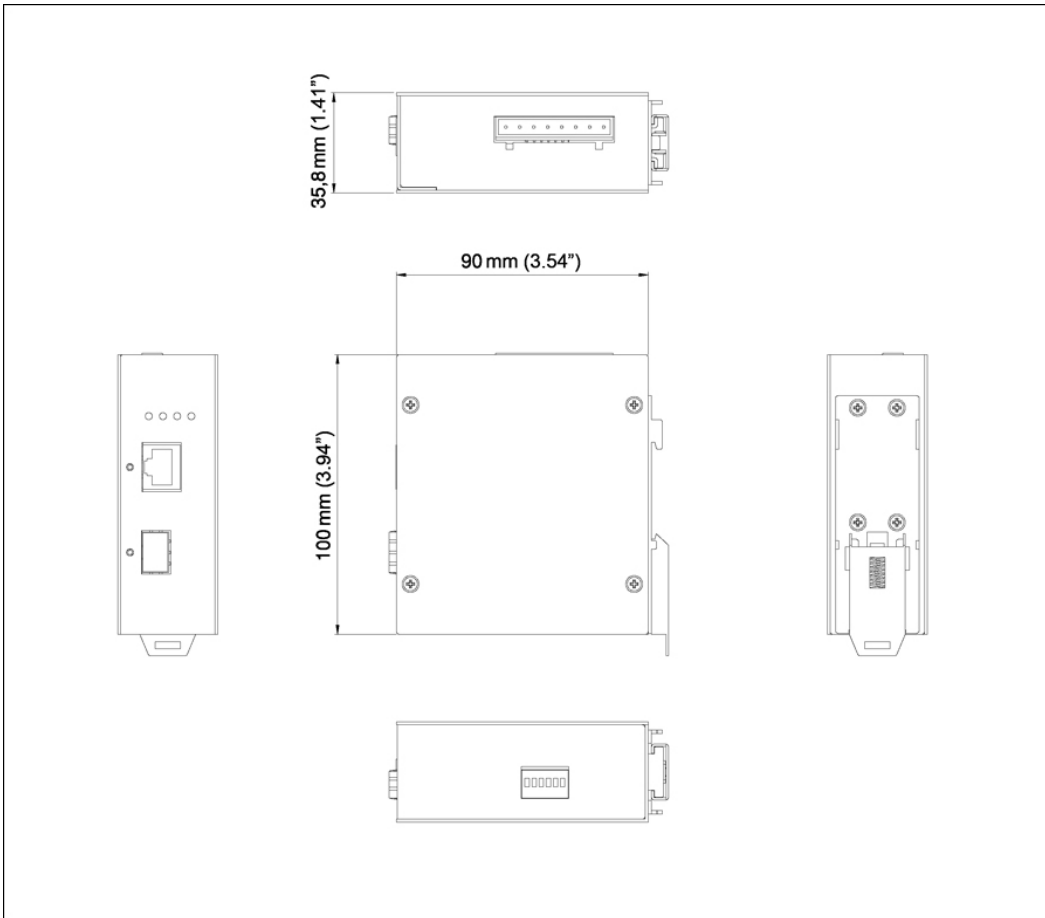
IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)
 FED STD 101C Method 5007.1 (Free fall w/
 package)

Application



Dimensions



Ordering Info

Model

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