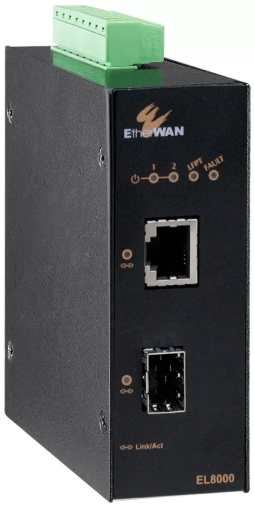
EL8000 Series

Hardened 1000BASE-TX to 1000BASE-SX/LX/BX/SFP Media Converter



Overview

The EL8000 Series provides media conversion between 1000BASE-TX and 1000BASE-SX/LX/BX/SFP Fiber. Built specifically for mission critical applications in harsh environments, the EL8000's hardened design features high shock & vibration resistance, electrical noise immunity, wide operating temperature range from -40 to 75°C, and aluminum housing. With two power inputs, link down alarming, Link-Fault-Pass-Through and a wide range of fiber connectivity options, the EL8000 is the ideal media converter for environments where connectivity is crucial.

EtherWAN — "**When Connectivity is Crucial.**"

Spotlight

Full Gigabit bandwidth and Jumbo frames

1000BASE-T and 1000BASE-SX/LX/BX/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

Hardened Grade

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 802.3ab 1000BASE-T

IEEE 802.3z 1000BASE-X

Forward and Filtering Rate

1,488,100pps for 1000Mbps

Processing Type

Auto Negotiation

Auto MDI/MDIX

Power

Input

12-48VDC

Power Consumption

1.44W Max., 12~48VDC, 0.12~0.03A

Protection

Overload Current Protection

Reverse Polarity Protection

Interface

Ethernet Ports

1000BASE-T: 1 port

1000BASE-SX/LX/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)

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

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)

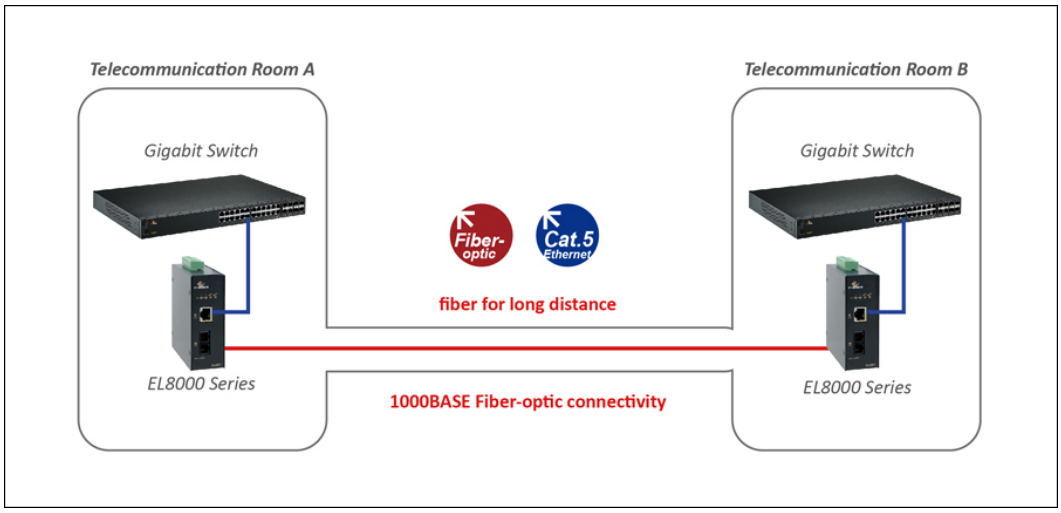
Environmental Test Compliances

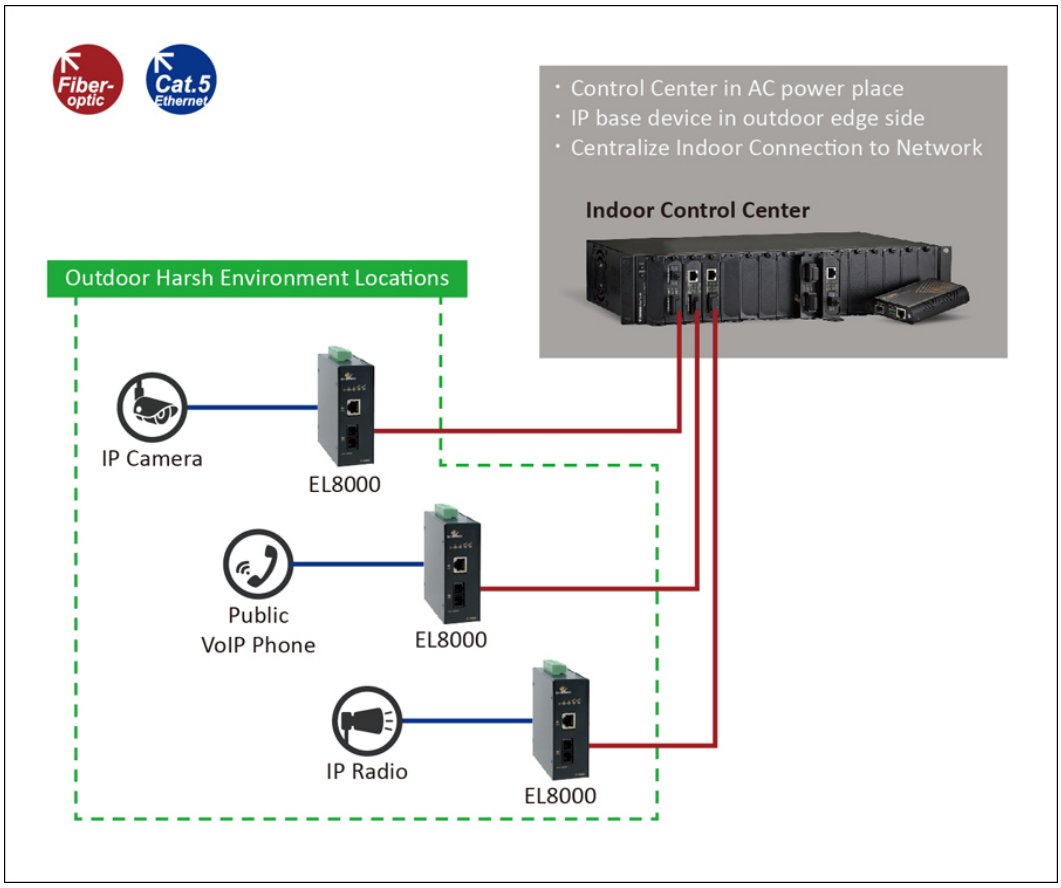
IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

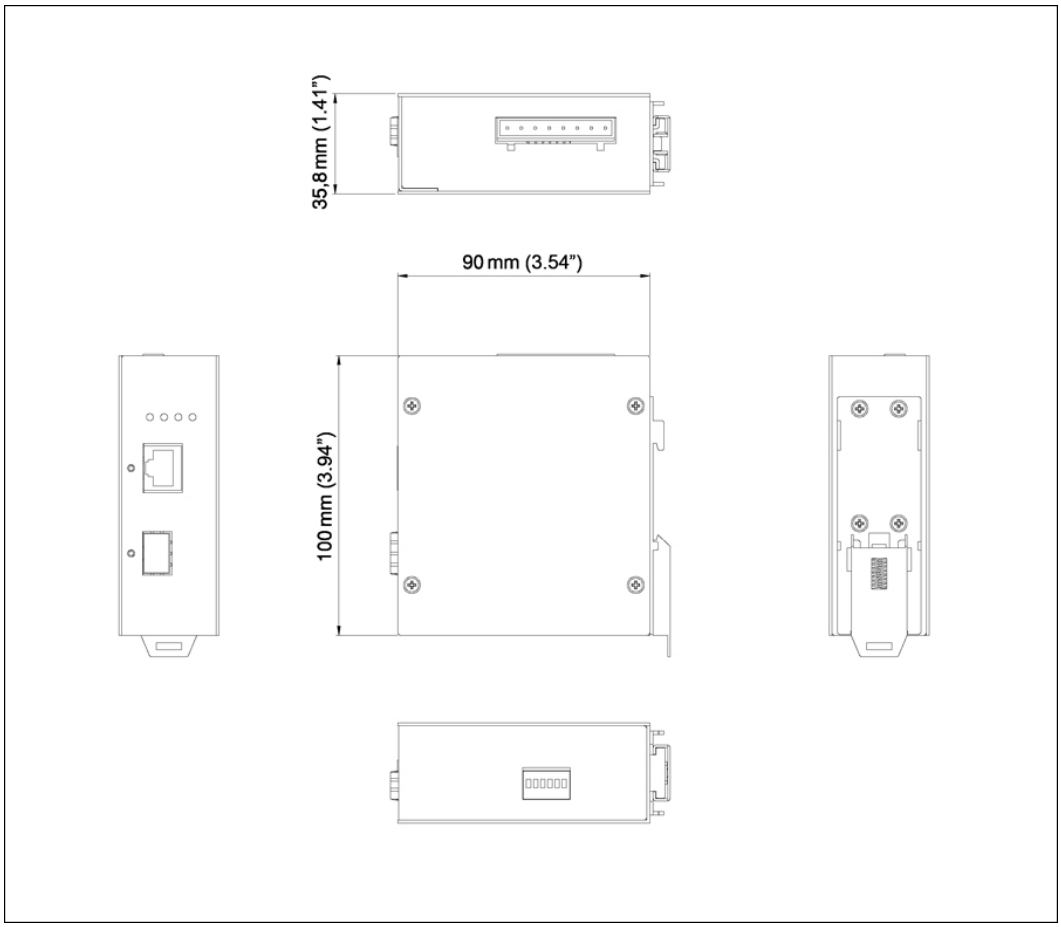
FED STD 101C Method 5007.1 (Free fall w/ package)

Application





Dimensions



Ordering Info

Model

EL8000-X1E	1000BASE-TX to 1000BASE-SX/LX/BX/SFP Hardened Media Converter

Gigabit Fiber Options (X)

3	1000BASE-SX (SC) - Multi mode 550m 850nm
4	1000BASE-SX (SC) - Multi mode 2Km 1310nm
5	1000BASE-SX (ST) - Multi mode 550m 850nm
A	1000BASE-LX (SC) - Single mode 10Km 1310nm
B	1000BASE-LX (SC) - Single mode 20Km 1310nm
R	1000BASE-BX (SC) WDM-TX: 1310nm/RX: 1550nm- Single mode 20Km 1310nm
S	1000BASE-BX (SC) WDM-TX: 1550nm/RX: 1310nm- Single mode 20Km 1310nm
V	1000BASE SFP

* More Gigabit options are also available upon request.

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