

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 + Hardened Grade

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

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-SX/1000BASE-LX

Forward and Filtering Rate

1,488,100pps for 1000Mbps

Processing Type

Auto Negotiation

Auto MDI/MDIX

+ 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

+ 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

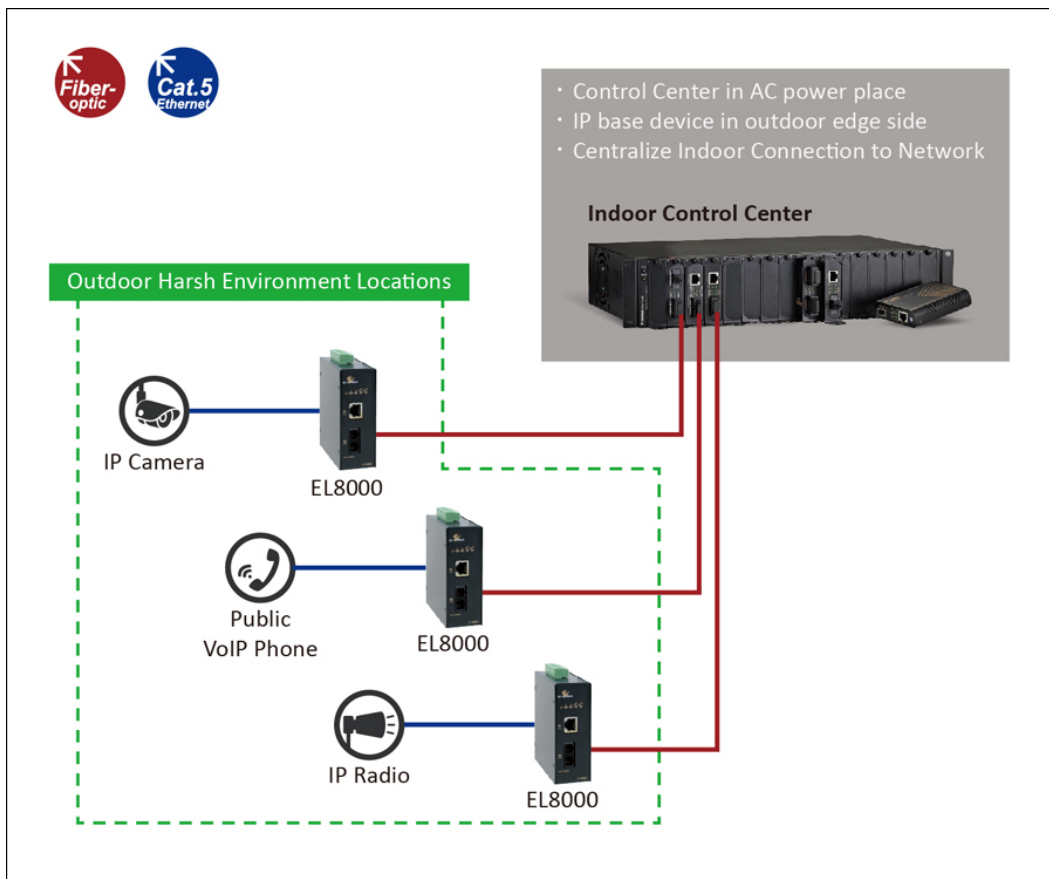
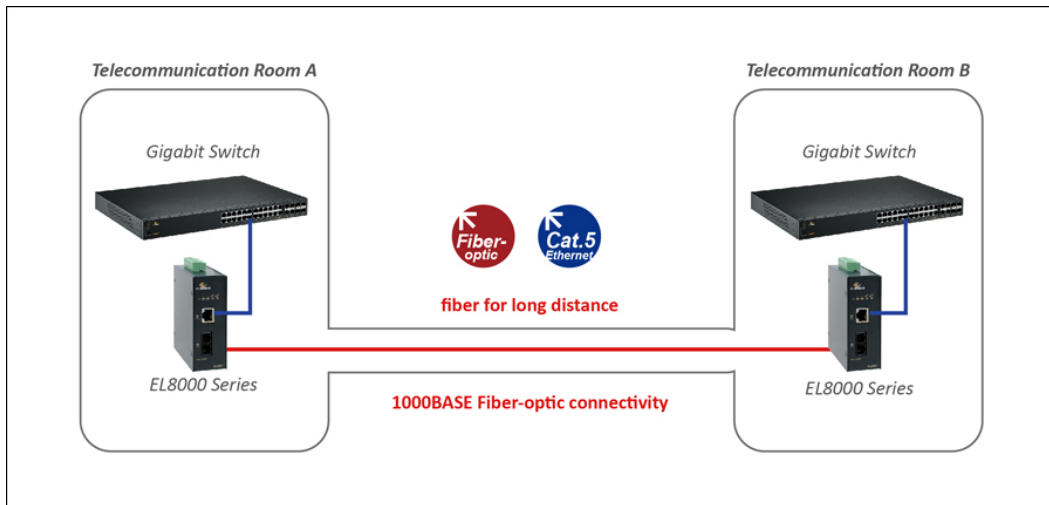
Industrial Compliance
EN 50121-4

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

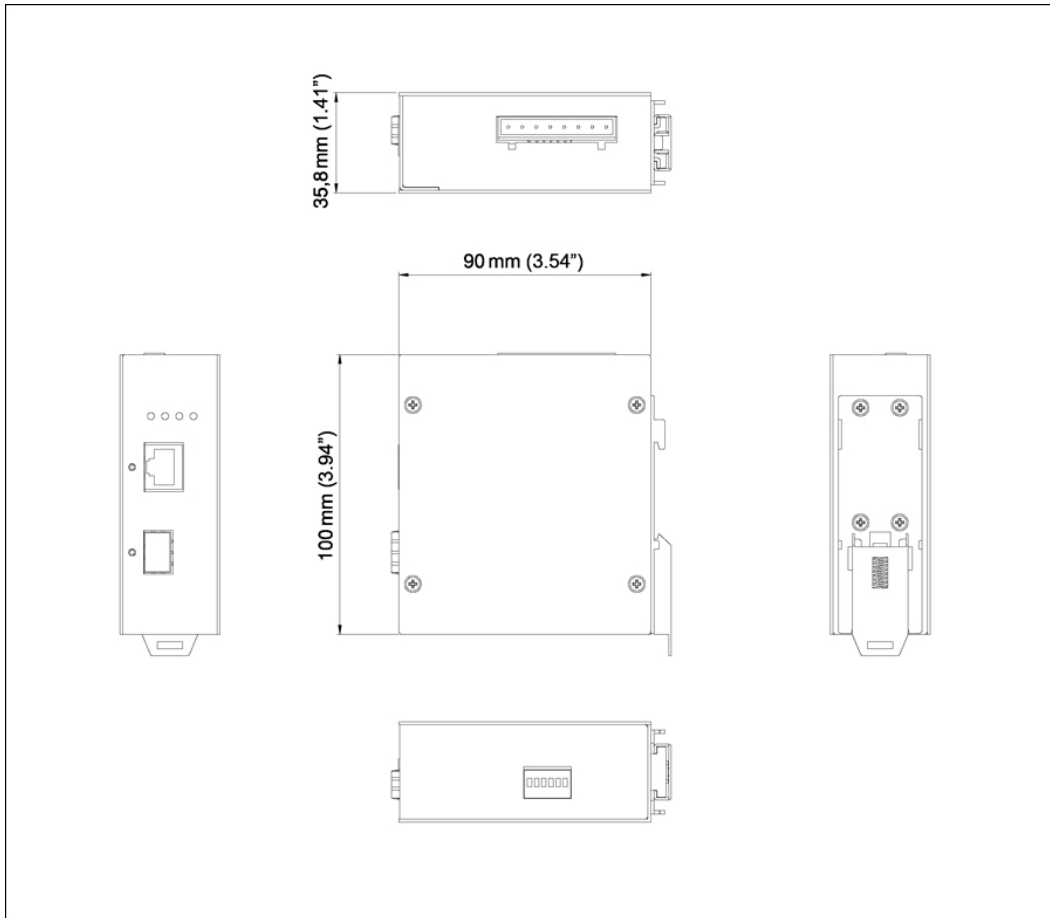
EMS
EN 61000-6-2
• EN 61000-4-2 (ESD Standards)
• EN 61000-4-3 (Radiated FRI Standards)
• EN 61000-4-4 (Burst Standards)
• EN 61000-4-5 (Surge Standards)
• EN 61000-4-6 (Induced RFI Standards)
• EN 61000-4-8 (Magnetic Field Standards)

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
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+ Gigabit Fiber Options (X)

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

* More Gigabit options are also available upon request.

