

# EL1032T Series

Industrial 10/100BASE-TX to 100BASE-FX Media Converter with PoE/PSE



## Overview

The EL1032T Series provides media conversion between 10/100BASE-T(X) and 100BASE-FX Fiber. Through DIP switch selection, Link-Fault-Pass-Through (LFPT) function can be active or disabled. EL1032T supports IEEE802.3at PoE/PSE standard and can transmit power and data over one RJ45 cable. The EL1032T's industrial design features high shock/vibration resistance, electrical noise immunity and a wide operating temperature range from -10°C to 60°C. EL1032T is the ideal media converter for industrial environments.

EtherWAN – “When Connectivity is Crucial”.

## Spotlight

- **Power over Ethernet**
  - Supports IEEE802.3at PoE/PSE standard and IEEE802.3af PoE/PSE compatible
- **Dual Power Interfaces**
  - Supports both terminal block and DC jack for power input selections
- **Industrial operating temperature range**
  - From -10°C to 60°C, wide operating temperature is suitable for outdoor cabinet installation

# Hardware Specifications

## Technology

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### Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/FX
- IEEE802.3af/at PoE/PSE

### Forward and Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

### Packet Buffer Memory

- 228Kb

### Processing Type

- Store-and-Forward
- Auto Negotiation
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control
- Auto MDI/MDIX

## Power

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### Input Voltage

- 48 to 57VDC

### Power Consumption

- Device: Max. 3.6W (without PoE)
- PoE power budget: 30W Max. (depends on power input)

### PoE Power Output

- IEEE802.3at: up to 30W/port, 50-57VDC, 500mA Max.

### Protection

- Overload current protection
- Reverse polarity protection

## Mechanical

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### Casing

- Aluminum Case

### Dimensions

- 70mm (W) x 110mm (D) x 30mm (H)  
(2.76" (W) x 4.33" (D) x 1.18" (H))

### Weight

- 0.25Kg (0.55lb.)

### Installation

- DIN-Rail (top hat type 35mm), Panel, or Wall mounting

## Interface

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### Ethernet Port

- 10/100BASE-TX: 1 port
- 100BASE-FX: 1 port

### LED Indicators

- Per Unit: Power
- Per 10/100TX Port : Link/ACT, full-duplex/collision
- Per 100FX Port : Link/ACT
- PoE: PD connect/PD disconnect

## Environment

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### Operating Temperature

- -10°C to 60°C (14°F to 140°F)  
Tested @ -20°C to 70°C (-4°F to 158°F)

### Storage Temperature

- -40°C to 85°C (-40°F to 185°F)

### Ambient Relative Humidity

- 5% to 95% (non-condensing)

## Regulatory Approvals

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### ISO

- Manufactured in an ISO9001 facility

### EMI

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#### FCC Part 15B, Class A

#### EN61000-6-4

#### EN55022

### EMS

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#### EN61000-6-2

- EN61000-4-2 (ESD Standards)
- EN61000-4-3 (Radiated RFI Standards)
- EN61000-4-4 (Burst Standards)
- EN61000-4-5 (Surge Standards)
- EN61000-4-6 (Induced RFI Standards)
- EN61000-4-8 (Magnetic Field Standards)

### Environmental Test Compliance

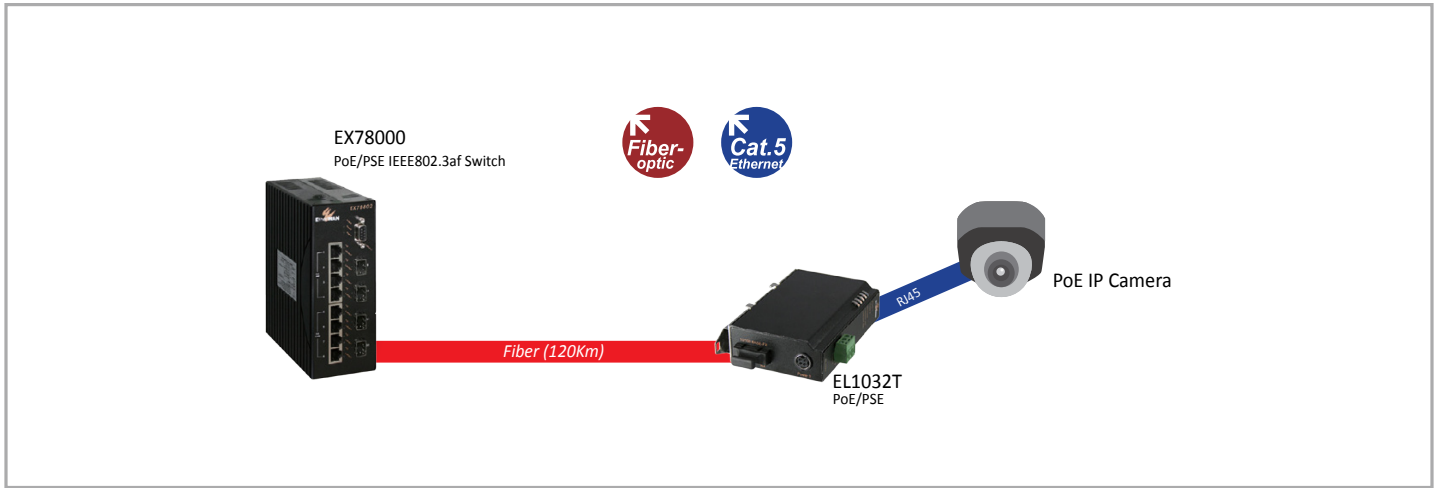
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#### IEC60068-2-6 Fc (Vibration Resistance)

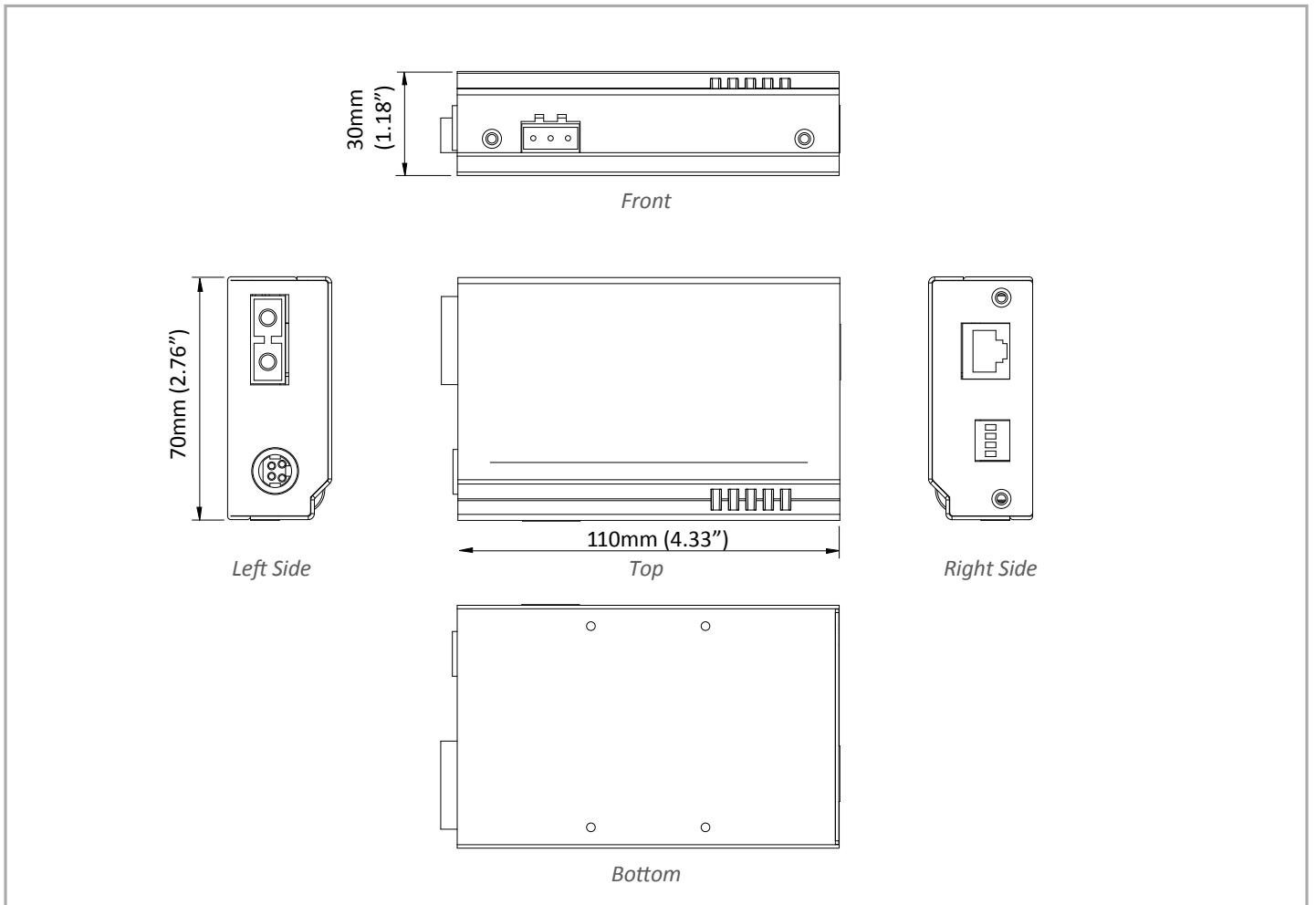
#### IEC60068-2-27 Ea (Shock)

#### FED STD 101C Method5007.1 (Free fall w/ package)

# Application Diagram



# Dimensions



# Ordering Information

## Model

<b>EL1032T-X0B</b>	Industrial 10/100BASE-TX to 100BASE-FX media converter with IEEE802.3af 15.4W and IEEE802.3at 30W PoE/PSE
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\* DIN-Rail mounting kit included

## 100FX Fiber Options (X)

<b>1</b>	Multi Mode (SC)
<b>2</b>	Multi Mode (ST)
<b>A</b>	Single Mode (SC) - 20Km (1310nm)
<b>B</b>	Single Mode (SC) - 40Km (1310nm)
<b>H</b>	Single Mode (ST) - 20Km (1310nm)
<b>6</b>	Multi Mode (SC) WDM -TX:1310nm/RX:1550nm - 2Km
<b>7</b>	Multi Mode (SC) WDM -TX:1550nm/RX:1310nm - 2Km
<b>8</b>	Multi Mode (SC) WDM -TX:1310nm/RX:1550nm - 5Km
<b>9</b>	Multi Mode (SC) WDM -TX:1550nm/RX:1310nm - 5Km
<b>P</b>	Single Mode (SC) WDM -TX:1310nm/RX:1550nm - 20Km
<b>Q</b>	Single Mode (SC) WDM -TX:1550nm/RX:1310nm - 20Km
<b>R</b>	Single Mode (SC) WDM -TX:1310nm/RX:1550nm - 40Km
<b>S</b>	Single Mode (SC) WDM -TX:1550nm/RX:1310nm - 40Km

\* More 100FX Fiber options also available upon request

## Optional Accessories

<b>DR-75-48</b>	75W/1.6A DIN-Rail 48VDC Industrial Power Supply (for terminal block)
<b>MDR-40-48</b>	40W/0.83A 48VDC Industrial Power Supply (for terminal block)
<b>DD-85-48</b>	85W/1.78A 48VDC industrial Power Supply (for terminal block)
<b>DD-85-55</b>	85W/1.78A 55VDC Industrial Power Supply (for terminal block)
<b>GS120A-48</b>	120W/2.5A 48VDC Power Adapter with latched DC jack in plastic housing (for DC jack)