

# 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 IEEE 802.3at 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 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

# Specifications

## Technology

### Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX/FX
- IEEE 802.3af/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 IEEE 802.3x full-duplex flow control
  - Auto MDI/MDIX
- 

## Power

### Input Voltage

- 48-57VDC

### Power Consumption

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

### PoE Power Output

- IEEE 802.3at: up to 30W/port, 50-57VDC, 500mA Max.

### Protection

- Overload current protection
  - Reverse polarity protection
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## Mechanical

## Casing

- Aluminum Case

## Dimensions

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

## Weight

- 0.25Kg (0.55lb.)

## Installation

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

### 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

### Operating Temperature

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

### Storage Temperature

- -40 to 85°C (-40 to 185°F)

### Ambient Relative Humidity

- 5% to 95% (non-condensing)
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## Regulatory Approvals

### ISO

- Manufactured in an ISO 9001 facility

## EMI

FCC Part 15B Class A

EN 61000-6-4

EN 55022

## 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

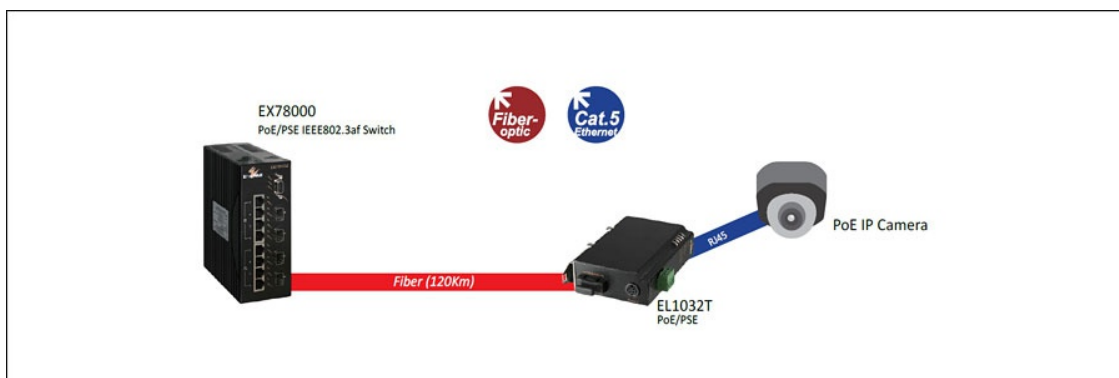
IEC 60068-2-6 Fc (Vibration Resistance)

IEC 60068-2-27 Ea (Shock)

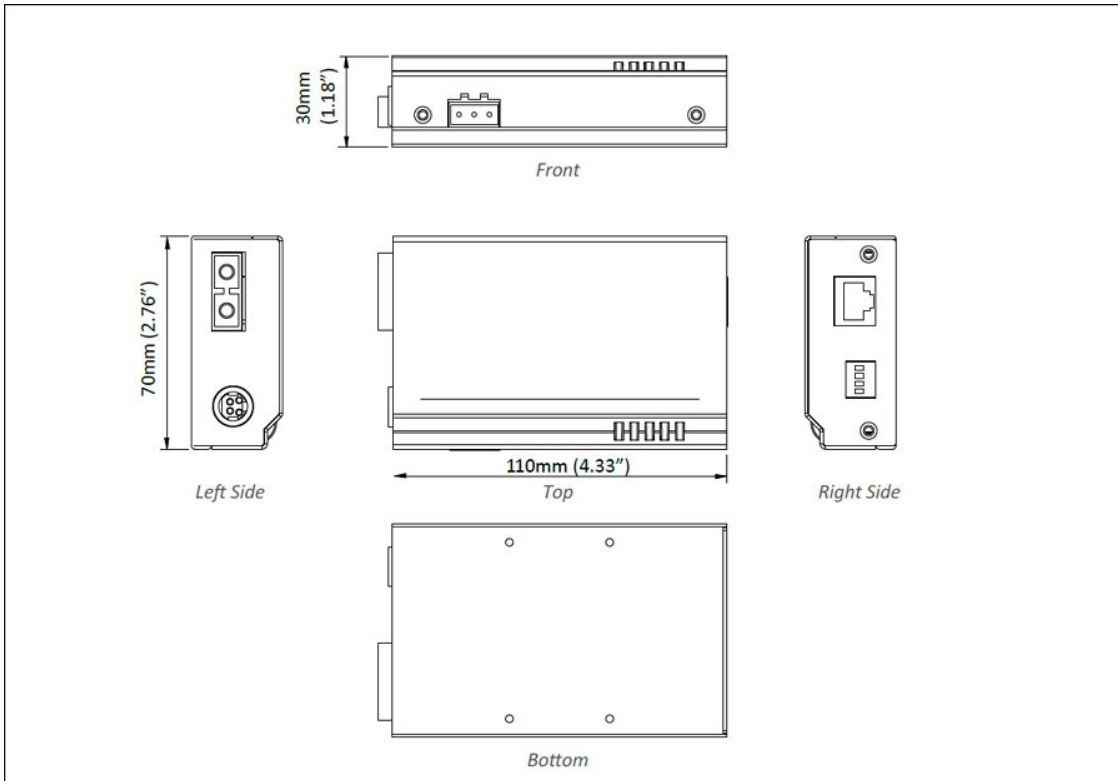
FED STD 101C Method5007.1 (Free fall w/package)

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## Application



## Dimensions



## Ordering Info

### Model

|                    |   |
|--------------------|---|
| <b>EL1032T-X0B</b> | 10/100BASE-TX to 100BASE-FX Industrial Media Converter with IEEE 802.3af 15.4W and IEEE 802.3at 30W PoE/PSE |
|--------------------|---|

\* 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>EDR-75-48</b>    | 75W/1.6A DIN-Rail 48VDC Industrial Power Supply |
| <b>EXGS-120A-48</b> | Power Supply 120W 48VDC with Latch              |



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