

# 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."

## Highlights

### + 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 selection

### + 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

### + 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

### + 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)

### + Regulatory Approvals

#### **ISO**

Manufactured in an ISO 9001 facility

#### **EMI**

FCC Part 15B Class A  
EN 61000-6-4  
EN 55022

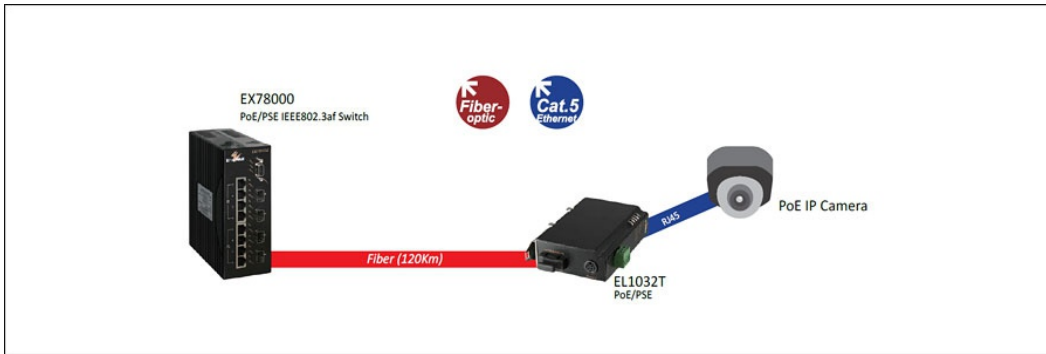
#### **EMS**

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)

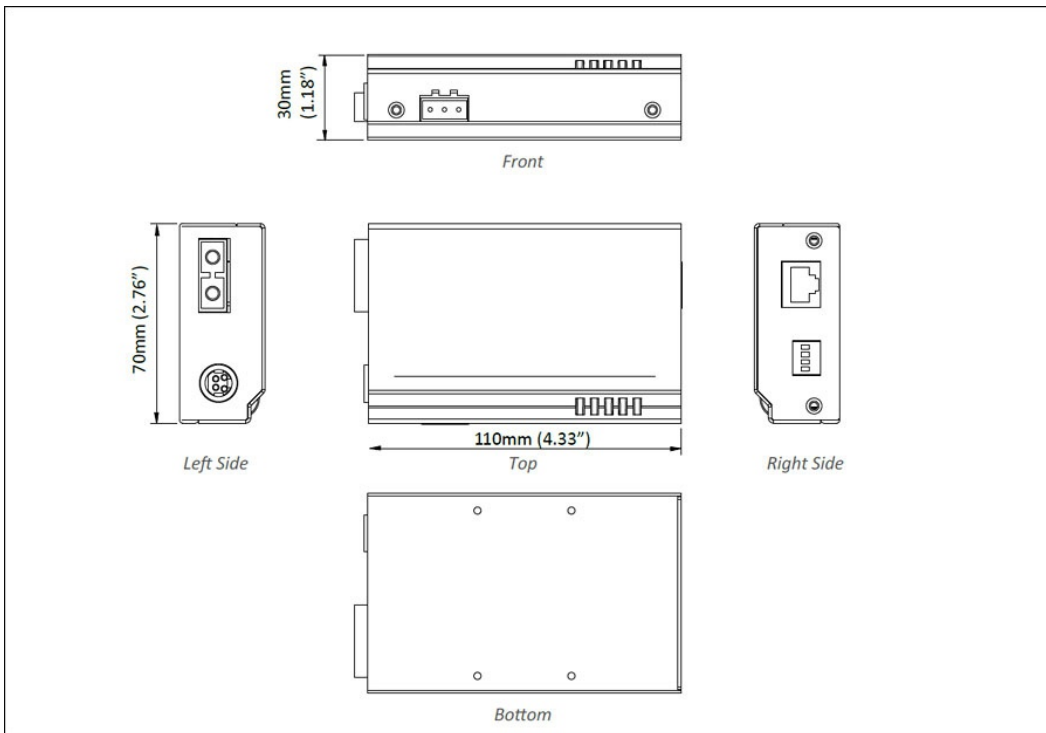
#### **Environmental Test Compliance**

IEC 60068-2-6 Fc (Vibration Resistance)  
IEC 60068-2-27 Ea (Shock)  
FED STD 101C Method5007.1 (Free fall w/package)

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

