

# EX42011 Series

Industrial 10/100BASE-TX to 100BASE-FX Media Converter



## Overview

The EX42011 Series provides media conversion between 10/100BASE-T and 100BASE-FX Fiber. Built specifically for mission-critical applications in harsh environments, the EX42011's industrial design features high shock and vibration, electrical noise immunity, a wide operating temperature range from -10°C to 60°C. With link down alarming and a wide range of fiber connectivity options, the EX42011 is the ideal media converter for industrial environments.

EtherWAN – “When Connectivity is Crucial”.

## Spotlight

- **Plug-and-Play Media Converter**
  - Easy installation, plug-and-play without additional configuration, providing store-and-forward data transmission
- **Wide Power Input Range**
  - From 12VDC to 48VDC voltage input range
- **Industrial operating temperature range**
  - From -10°C to 60°C, wide operating temperature is suitable for outdoor cabinet installation

# Hardware Specifications

## Technology

---

### Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/FX
- IEEE802.3x Full duplex and flow control

### Forward and Filtering Rate

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

### Packet Buffer Memory

- 384K bits

### Processing Type

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

## Power

---

### Input Voltage

- 12 to 48VDC (Terminal Block)

### Power Consumption

- 4.3W MAX. 0.3A @ 12VDC, 0.15A @ 24VDC

### Protection

- Overload current protection
- Reverse polarity protection

## Mechanical

---

### Casing

- Plastic case
- IP30

### Dimensions

- 26mm (W) x 70mm (D) x 110mm (H)  
(1.02" (W) x 2.76" (D) x 4.33" (H))

### Weight

- 0.2Kg (0.44bs.)

### Installation

- DIN-Rail (Top hat type 35mm) mounting

## Interface

---

### Ethernet Port

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

### LED Indicators

- Per Unit: Power 1
- Per port: Link/Activity (Green)  
Speed (Yellow)

### Relay Contact

- Relay contact rating with current 1A @ 30VDC,  
0.5A @ 120VAC

## Environment

---

### Operating Temperature

- -10°C to 60°C (-40°F to 167°F)  
Tested @ -20°C to 70°C (-4°F to 158°F)

### Storage Temperature

- -25°C to 85°C (-133°F to 185°F)

### Ambient Relative Humidity

- 5% to 95% (non-condensing)

## Regulatory Approvals

---

### ISO

- Manufactured in an ISO9001 facility

### Safety

---

#### UL60950-1

#### EN60950-1

#### IEC60950-1

### EMI

---

#### FCC Part 15B, Class A

#### EN61000-6-4

### EMS

---

#### 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

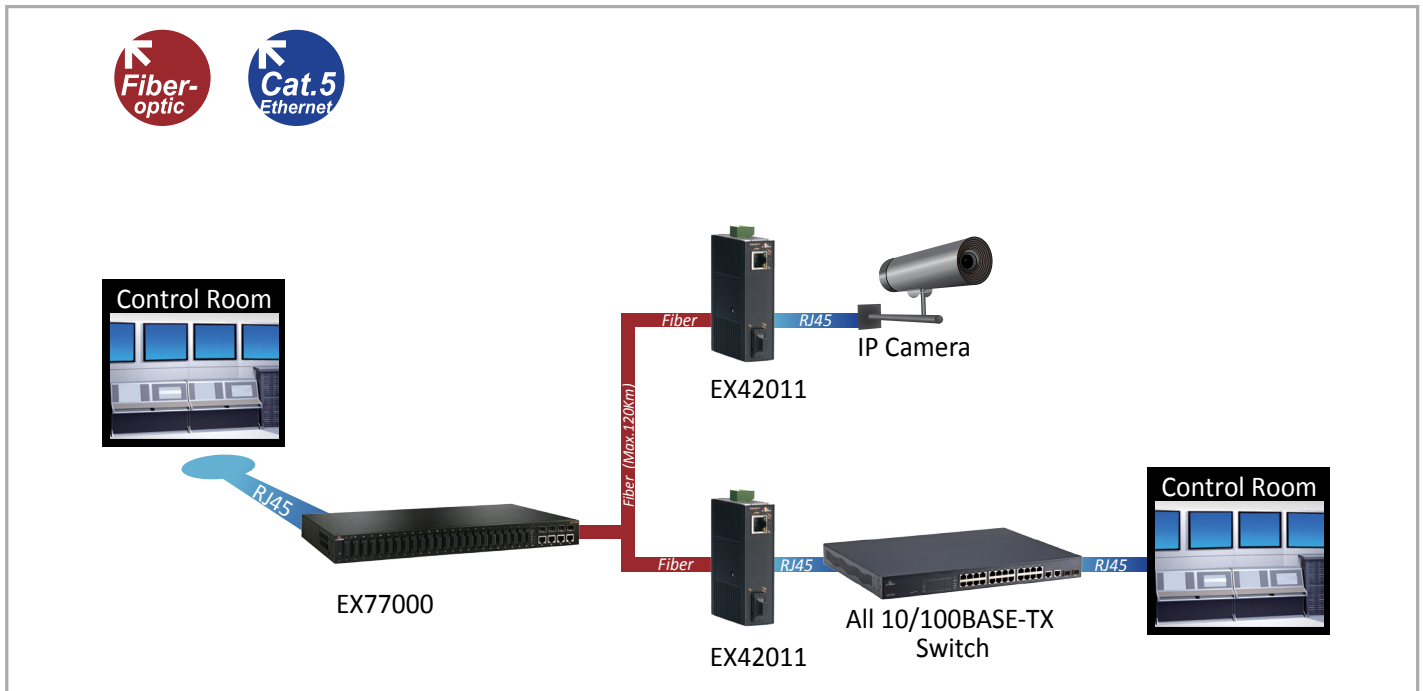
---

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

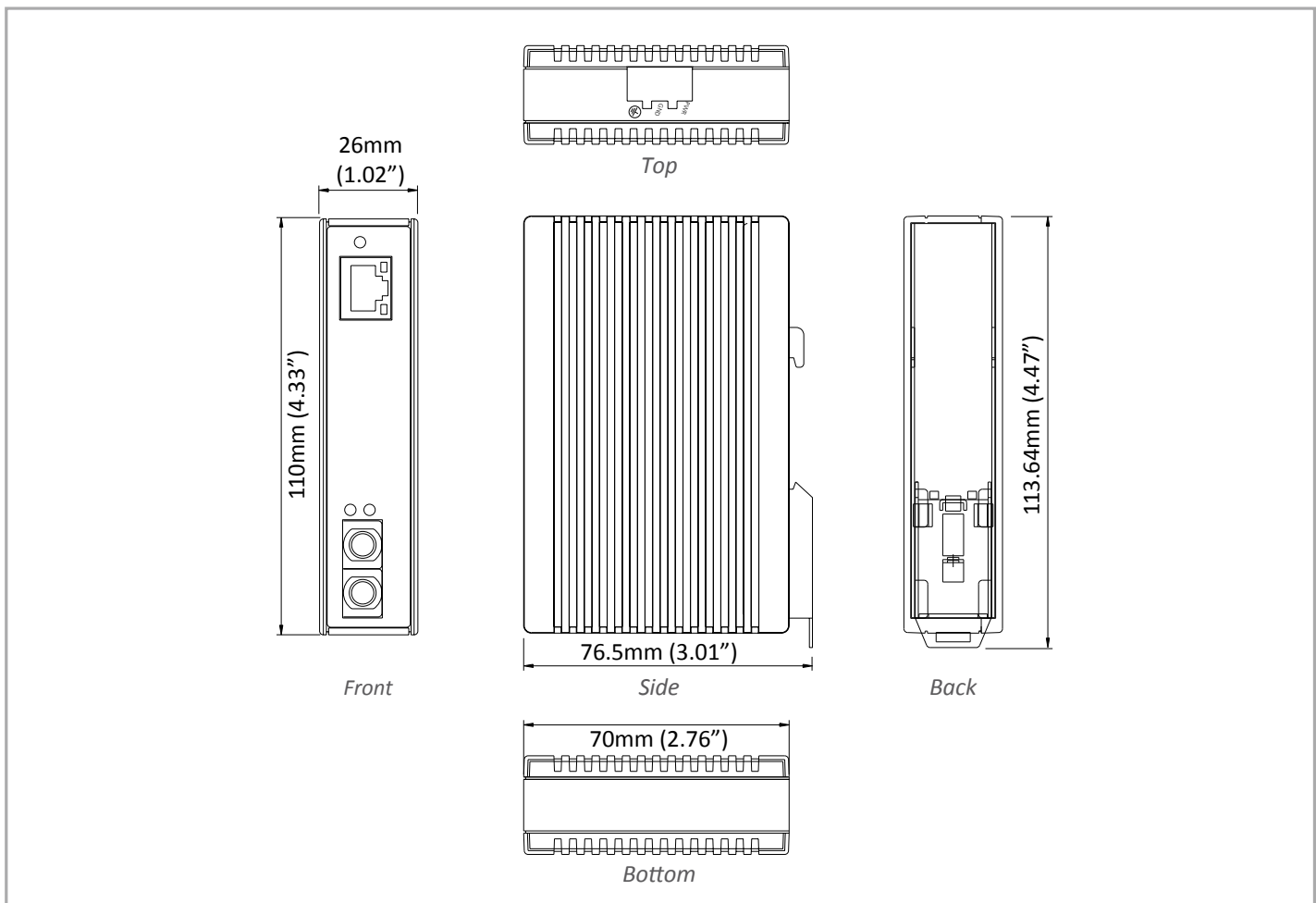
#### IEC60068-2-27 Ea (Shock)

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

# Application Diagram



# Dimensions



# Ordering Information

## Model

**EX42011-XY-1-A** Industrial 10/100BASE-TX to 100BASE-FX Media Converter

\* DIN-Rail mounting kit included

## 100FX Fiber Options (XY)

<b>1A</b>	Multi Mode (SC) -2Km (1310nm)
<b>1B</b>	Multi Mode (ST) -2Km (1310nm)
<b>2A</b>	Single Mode (SC) -20Km (1310nm)
<b>2B</b>	Single Mode (SC) -40Km (1310nm)
<b>2D</b>	Single Mode (ST) -20Km (1310nm)
<b>1H</b>	Multi Mode (SC) WDM-TX: 1310nm/RX:1550nm -2Km
<b>1J</b>	Multi Mode (SC) WDM-TX: 1310nm/RX:1550nm -5Km
<b>2E</b>	Single Mode (SC) WDM-TX:1310nm/RX:1550nm -20Km
<b>2F</b>	Single Mode (SC) WDM-TX:1310nm/RX:1550nm -40Km
<b>1I</b>	Multi Mode (SC) WDM-TX: 1550nm/RX:1310nm -2Km
<b>1K</b>	Multi Mode (SC) WDM-TX: 1550nm/RX:1310nm -5Km
<b>2G</b>	Single Mode (SC) WDM-TX:1550nm/RX:1310nm -20Km
<b>2H</b>	Single Mode (SC) WDM-TX:1550nm/RX:1310nm -40Km

\* More 100FX Fiber options also available upon request

## Optional Accessories

<b>DR-30-24</b>	30W/1.5A DIN-Rail 24VDC Industrial Power Supply (For Terminal Block)
<b>DR-60-24</b>	60W/2.5A DIN-Rail 24VDC Industrial Power Supply (For Terminal Block)
<b>DR-75-24</b>	75W/3.2A DIN-Rail 24VDC Industrial Power Supply (For Terminal Block)
<b>DR-120-24</b>	120W/5A DIN-Rail 24VDC Industrial Power Supply (For Terminal Block)
<b>41-136046-X</b>	36W/3A 12VDC hardened power adapter with open wire in aluminum housing (For Terminal Block); (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA