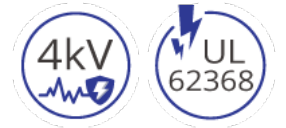


# EX42011 Series

Industrial-Grade Fast Ethernet to Fiber 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/vibration resistance, electrical noise immunity, a wide operating temperature range from -10 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

### + 4kV Surge Protection on Data port

Augmented 4kV surge protection in accordance with EN 61000-4-5

### + Wide Power Input Range

From 12 to 48VDC voltage input range

## Specifications

### + Technology

#### Standards

IEEE 802.3 10BASE-T  
IEEE 802.3u 100BASE-TX and 100BASE-FX  
IEEE 802.3x Full duplex and flow control

#### Forward and Filtering Rate

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

#### Packet Buffer Memory

448K bits

#### Processing Type

Store-and-forward  
Auto Negotiation  
Half-Duplex back-pressure and IEEE 802.3x Full-Duplex flow control  
Auto MDI/MDIX

### + Interface

#### Ethernet Ports

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

#### LED Indicators

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

### + Environment

#### Operating Temperature

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

#### Storage Temperature

-25 to 85°C (-13 to 185°F)

#### Ambient Relative Humidity

5% to 95% (non-condensing)

## + Power

### Input

12 to 48VDC (Terminal Block)

### Power Consumption

1.82W Max.  
 0.14A@12VDC,  
 0.07A@24VDC  
 0.038A@48VDC

### Protection

Reverse Polarity Protection

## + Mechanical

### Casing

Aluminum Case  
 IP30

### Dimensions

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

### Weight

0.2Kg (0.44bs.)

### Installation

DIN-Rail (top hat type 35mm) or panel mounting

## + Regulatory Approvals

### ISO

Manufactured in an ISO 9001 facility

### Safety

UL 62368

### EMI

FCC Part 15B Class A  
 VCCI Class A  
 EN 61000-3-2  
 EN 61000-3-3  
 EN 61000-6-4

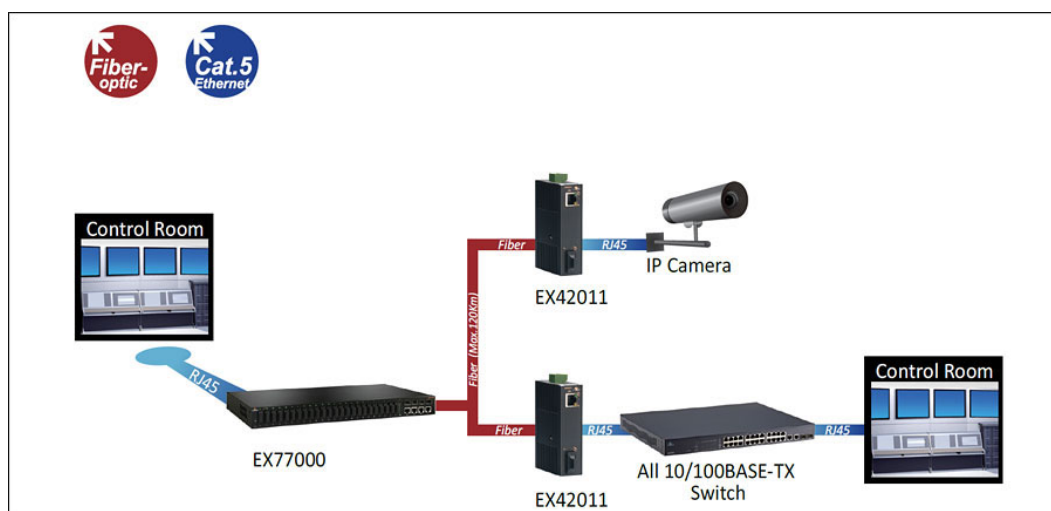
### EMS

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)  
**Signal ports: ±4kV line-to-ground**  
 • EN 61000-4-6 (Induced RFI Standards)  
 • EN 61000-4-8 (Magnetic Field Standards)

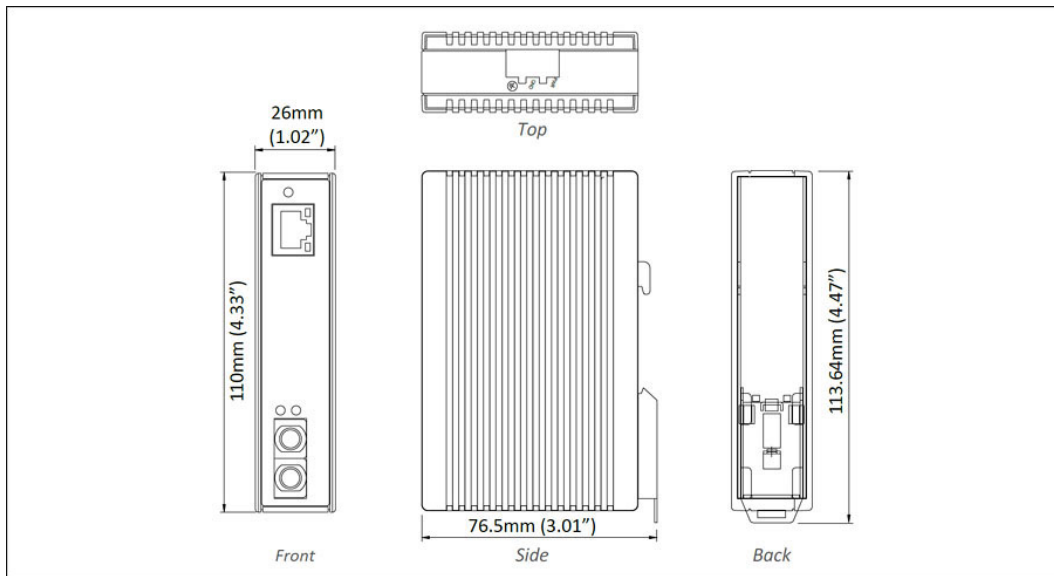
### Environmental Test Compliances

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

<b>EX42011-XY-1-A</b>	10/100BASE-TX to 100BASE-FX Industrial Media Converter with 4kV surge protection
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\* 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>HDR-30-24</b>	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
<b>HDR-60-24</b>	60W/2.5A DIN-Rail 24VDC Industrial Power Supply
<b>EDR-75-24</b>	75W/3.2A DIN-Rail 24VDC Industrial Power Supply
<b>EDR-120-24</b>	120W/5A DIN-Rail 24VDC Industrial Power Supply
<b>EX41-145046-X</b>	Power Supply 45W 12VDC with Open Wire (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA

