

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/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
- **Wide Power Input Range**
 - From 12 to 48VDC voltage input range
- **4kV Surge Protection on Data port**
 - Augmented 4kV surge protection in accordance with EN 61000-4-5

Hardware Specifications

Technology

Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX/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

Power

Input Voltage

- 12-48VDC (Terminal Block)

Power Consumption

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

Protection

- Reverse polarity protection

Mechanical

Casing

- Plastic 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) 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)

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)

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 RFI 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)

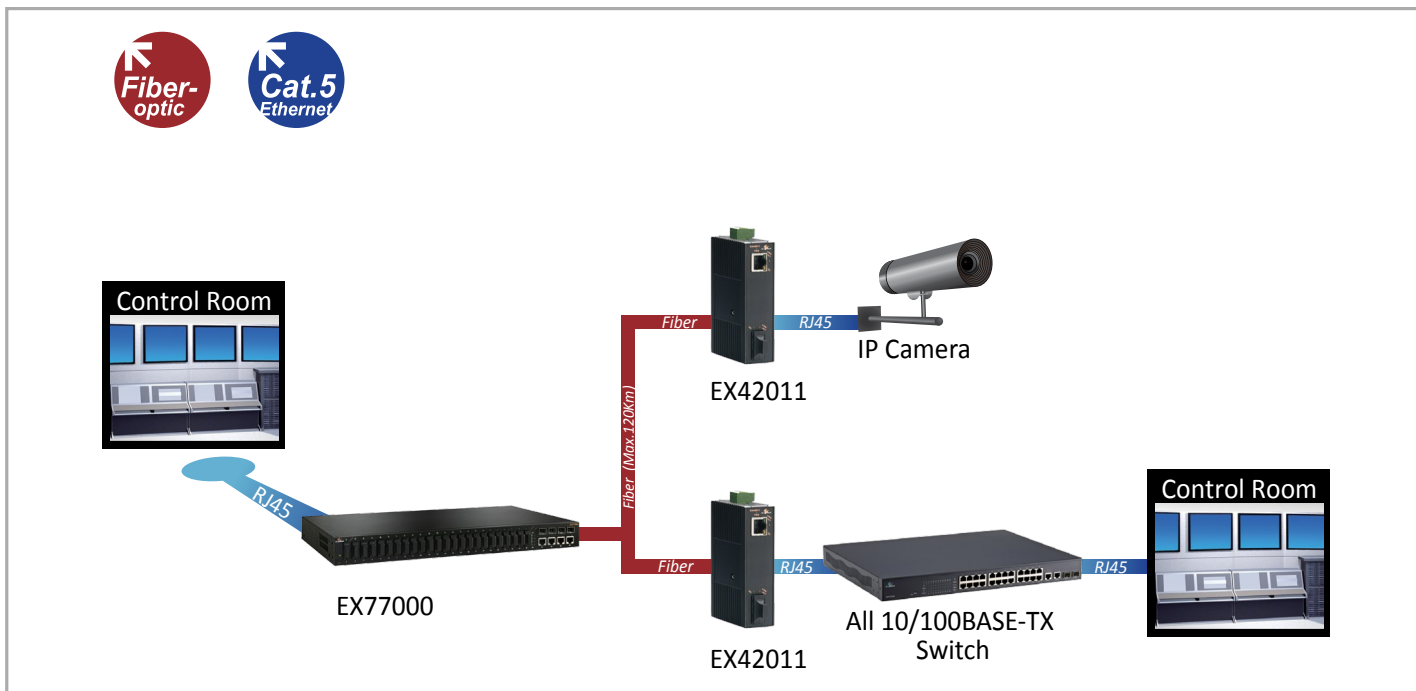
Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration Resistance)

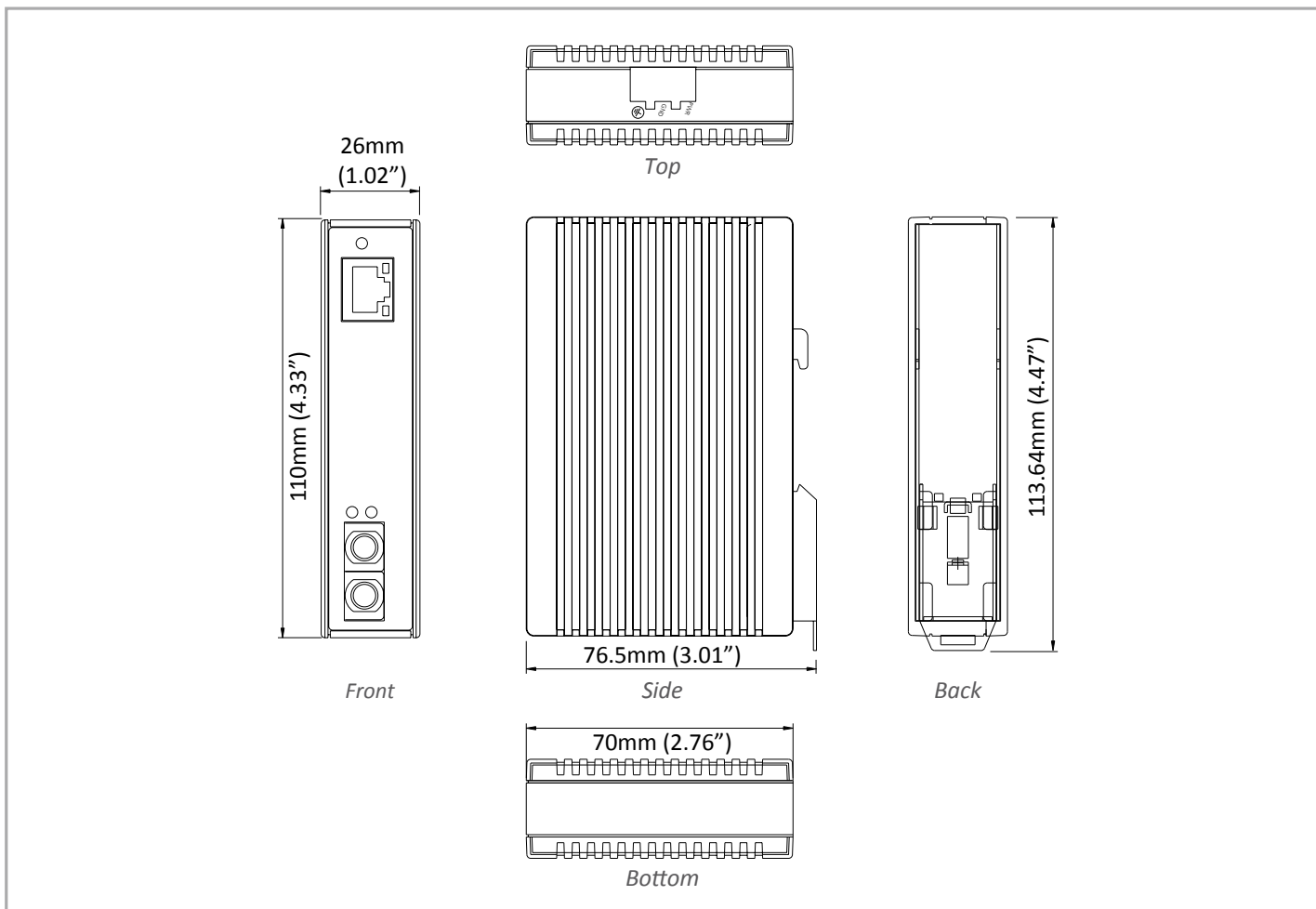
IEC 60068-2-27 Ea (Shock)

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

Application Diagram



Dimensions



Ordering Information

Model

EX42011-XY-1-A	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)

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

* More 100FX Fiber options also available upon request.

Optional Accessories

HDR-30-24	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
HDR-60-24	60W/2.5A DIN-Rail 24VDC Industrial Power Supply
EDR-75-24	75W/3.2A DIN-Rail 24VDC Industrial Power Supply
EDR-120-24	120W/5A DIN-Rail 24VDC Industrial Power Supply
EX41-145046-X	Power Supply 45W 12VDC with Open Wire (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA