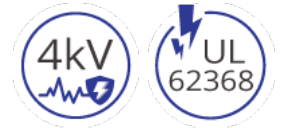


EX42011 Series

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

+ 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

+ 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 (0.44lbs.)

Installation

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

+ 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)

+ 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)

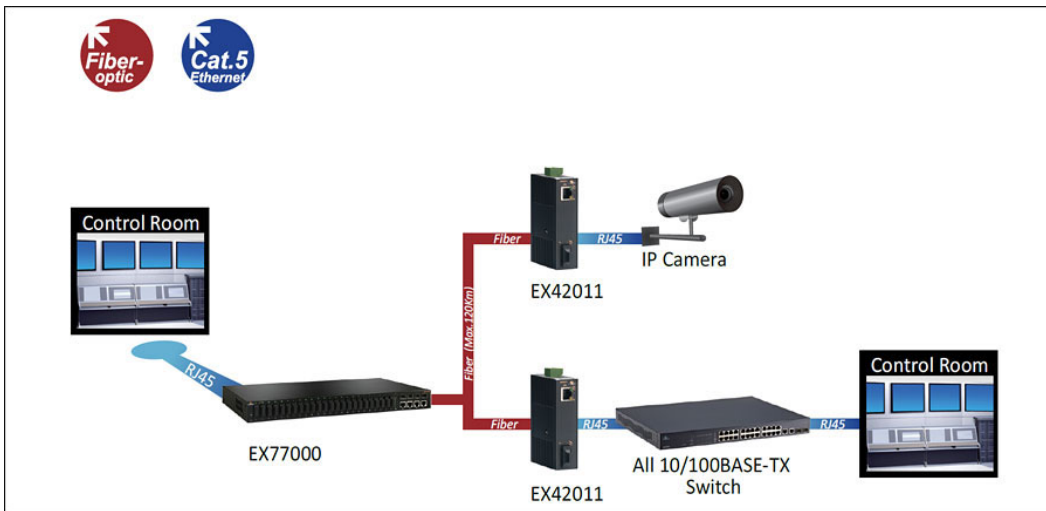
Signal ports: ±4kV line-to-ground

• EN 61000-4-6 (Induced RFI Standards)
• EN 61000-4-8 (Magnetic Field Standards)

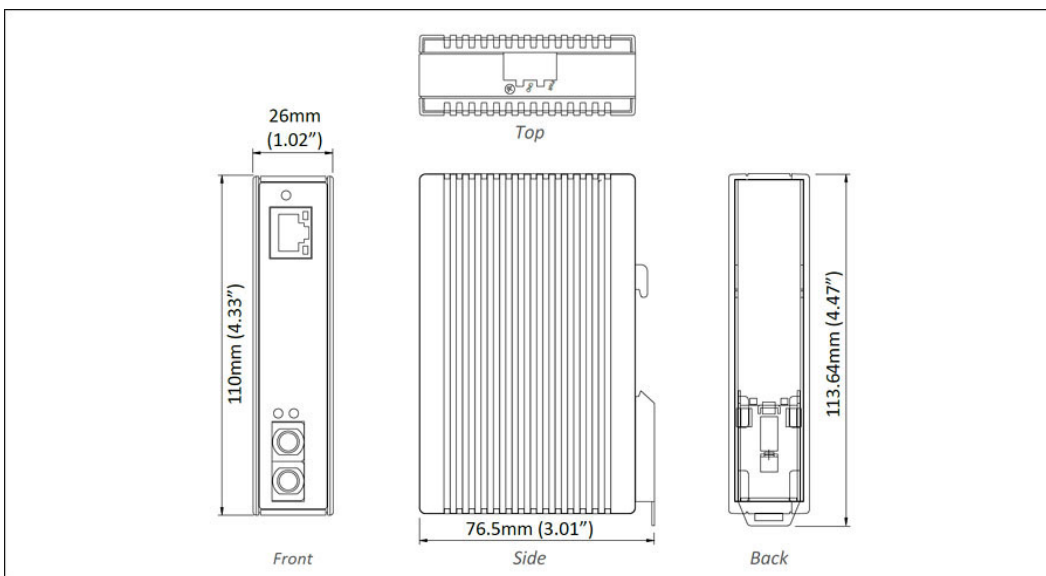
Environmental Test Compliances

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

| | |
|-----------------------|--|
| EX42011-XY-1-A | 10/100BASE-TX to 100BASE-FX Industrial Media Converter with 4kV surge protection |
|-----------------------|--|

* 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

