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 (0.44lbs.)

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 |

* DIN-Rail mounting kit included.

**100FX Fiber Options (XY)**

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<td>1A</td>
<td>Multi Mode (SC) - 2Km (1310nm)</td>
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<tr>
<td>1B</td>
<td>Multi Mode (ST) - 2Km (1310nm)</td>
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<td>2A</td>
<td>Single Mode (SC) - 20Km (1310nm)</td>
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<tr>
<td>2B</td>
<td>Single Mode (SC) - 40Km (1310nm)</td>
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<td>2D</td>
<td>Single Mode (ST) - 20Km (1310nm)</td>
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<td>1H</td>
<td>Multi Mode (SC) WDM - TX: 1310nm/RX: 1550nm-2Km</td>
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<td>1J</td>
<td>Multi Mode (SC) WDM - TX: 1310nm/RX: 1550nm-5Km</td>
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<td>2E</td>
<td>Single Mode (SC) WDM - TX: 1310nm/RX: 1550nm-20Km</td>
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<td>2F</td>
<td>Single Mode (SC) WDM - TX: 1310nm/RX: 1550nm-40Km</td>
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<td>1I</td>
<td>Multi Mode (SC) WDM - TX: 1550nm/RX: 1310nm-2Km</td>
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<td>1K</td>
<td>Multi Mode (SC) WDM - TX: 1550nm/RX: 1310nm-5Km</td>
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<td>2G</td>
<td>Single Mode (SC) WDM - TX: 1550nm/RX: 1310nm-20Km</td>
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<td>2H</td>
<td>Single Mode (SC) WDM - TX: 1550nm/RX: 1310nm-40Km</td>
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* More 100FX Fiber options also available upon request.

**Optional Accessories**

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