# EKI-2741 Series

#### 10/100/1000T (X) to Fiber Optic Gigabit **Industrial Media Converters**



#### **Features**

- Provides 1 x 10/100/1000 Mbps Ethernet port with RJ45 connector
- Provides 1 x 1000 Mbps fiber port with SC type connector for 1000Base-SX/
- Provides 1 x 100/1000 Mbps Ethernet port with SFP (mini-GBIC) type
- Provides DIP switch for power alarm & LFP
- Supports MDI/MDI-X auto crossover
- Supports auto-negotiation
- Supports redundant 12 ~ 48 V<sub>DC</sub> power input
- Provides flexible mounting: DIN-rail and wall mount
- Provides Link Fault Pass-through (LFP)
- Jumbo Frame: 9216 bytes







#### Introduction

The EKI-2741 is designed to convert Gigabit Ethernet networks to Gigabit fiber networks by transparently converting Ethernet signals to optic signals. Therefore, the EKI-2741 is an ideal solution for "fiber to building" applications at central offices or local sites. EKI-2741 supports MDI/MDIX auto detection, so you don't need to use crossover wires. Furthermore, the EKI-2741 accepts a wide voltage range from 12 ~ 48 Vpc. EKI-2741 is an enhanced gigabit Ethernet to fiber optic converter. Aside from its standard features, the versatile the EKI-2741 also has the LFP (Link Fault Pass-through) feature. So when one side of the link fails and the other side continues transmitting packets, waiting for a response that never arrives from the disconnected side, EKI-2741 will force the link to shut down as soon as it has noticed the other link has failed, giving the application software a chance to react to the situation.

## **Specifications**

#### **Communications**

Standard IEEE 802.3, 802.3u, 802.3ab, 802.3x, IEEE 802.3z LAN 10/100/1000Base-T (X), 1000Base-SX or 1000Base-LX

 Transmission Distance Ethernet: Up to 100 m

Multi-mode: Up to 550 m Single-mode: Up to 10 km (EKI-2741LX) or up to

110 km (EKI-2741F) SFP: Up to 110 km (EKI-2741F)

Wavelength: 850 nm

 Transmission Speed Up to 1000 Mbps

**Optical Fiber** 

Single-mode

(EKI-2741SX/SXI)

Multi-mode

Tx Power: -4/-9.5 dBm Rx Sensitivity: -18 dBm Parameters: 50/125 um, 62.5/125 um Wavelength: 1310 nm Tx Power: -3/-9.5 dBm

(EKI-2741LX/LXI) Rx Sensitivity: -20 dBm Parameters: 9/125 um

Interface

Connectors 1 x RJ45

1 x SC type fiber connector (EKI-2741SX/LX) or 1 x SFP type fiber connector (EKI-2741F) 6-pin removable screw terminal (power & relay)

 LED Indicators P1, P2, P-Fail Fiber: LNK/ACT

Ethernet: 1000M, LNK/ACT DIP Switch Power alarm, LFP

Power

 Power Consumption 3.5W

 Power Input 12 ~ 48 V<sub>DC</sub>, redundant dual inputs

#### Mechanism

■ **Dimensions (W x H x D)** 30 x 140 x 95 mm (1.18" x 5.51" x 3.74") Enclosure IP30, metal shell with solid mounting kits

Mounting DIN-rail, wall

Protection

**Power Reverse** Present Overload current Present

#### **Environment**

 Operating Temperature -10 ~ 60 °C (14 ~ 140 °F) Wide Temp Model -40 ~ 75 °C (-40 ~ 167 °F) -40 ~ 85 °C (-40 ~ 185 °F) Storage Temperature **Operating Humidity** 10 ~ 95% (non-condensing) Storage Humidity 10 ~ 95% (non-condensing)

MTBF

#### Certification

Vibration

Safety UL 60950 EMI CE, FCC Class A EMS EN 61000-4-2 FN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 Shock IEC 60068-2-27 IEC 60068-2-32 Freefall

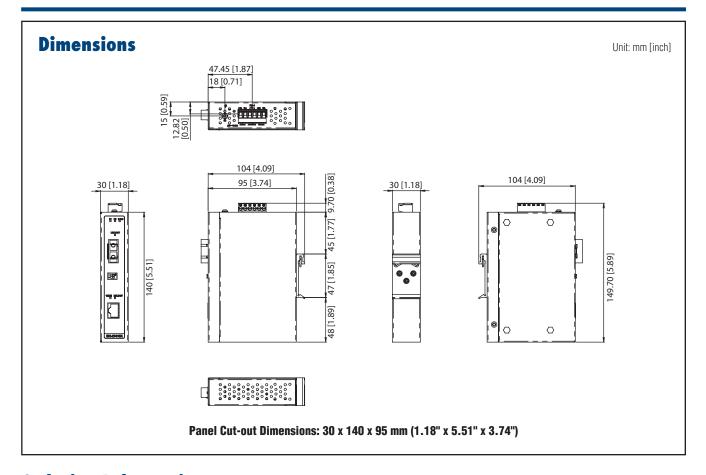
IEC 60068-2-6

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# **Ordering Information**

- EKI-2741F-BE
- Giga Ethernet to SFP fiber converter EKI-2741FI-BE Giga Ethernet to SFP fiber converter with wide temp.
- EKI-2741SX-BE
- Giga Ethernet to 1000Base-SX fiber converter
- EKI-2741SXI-BE
- Giga Ethernet to 1000Base-SX fiber converter with wide temp. Giga Ethernet to 1000Base-LX fiber converter
- EKI-2741LX-BE
- EKI-2741LXI-BE Giga Ethernet to 1000Base-LX fiber converter with wide

temp.

