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/LX device
- 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_{DC} power input
- Provides flexible mounting: DIN-rail and wall mount
- Provides Link Fault Pass-through (LFP)
- Jumbo Frame: 9216 bytes

Vertrieb durch AMC
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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 V_{DC}. 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
  Fiber:
  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)
- **Transmission Speed** Up to 1000 Mbps
- **Optical Fiber**
  Multi-mode (EKI-2741SX/SXI)
  Wavelength: 850 nm
  Tx Power: -4/-9.5 dBm
  Rx Sensitivity: -18 dBm
  Parameters: 50/125 um, 62.5/125 um
  Single-mode (EKI-2741LX/LXI)
  Wavelength: 1310 nm
  Tx Power: -3/-9.5 dBm
  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_{DC}, 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)
- **Storage Temperature** -40 ~ 85 °C (-40 ~ 185 °F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** TBD

Certification

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

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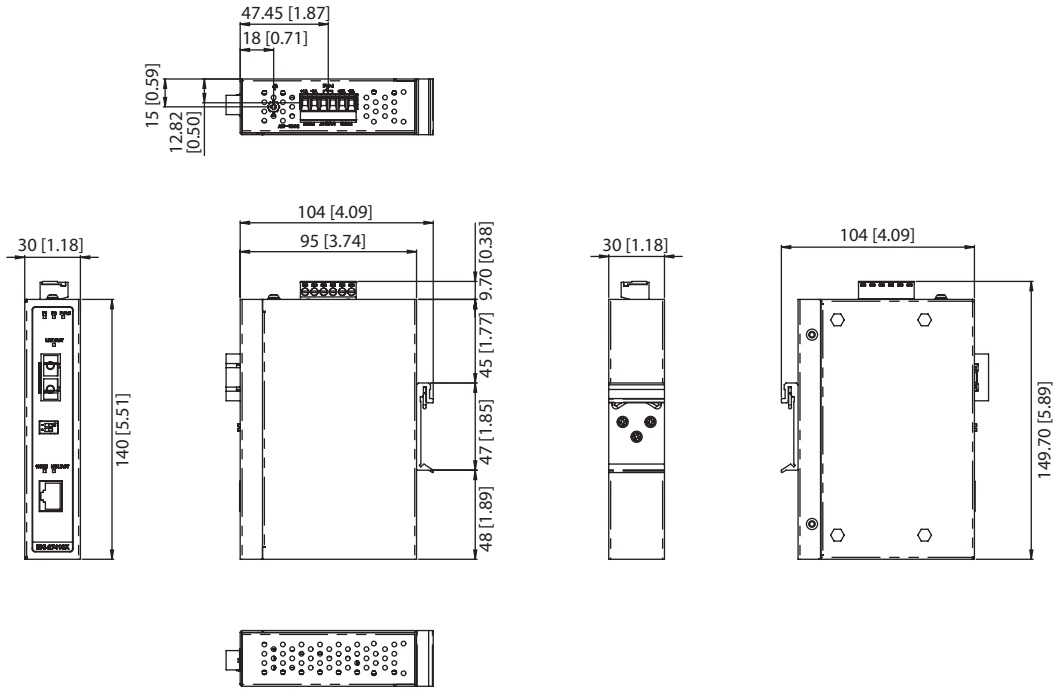
Dimensions

Unit: mm [inch]



Panel Cut-out Dimensions: 30 x 140 x 95 mm (1.18" x 5.51" x 3.74")

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.
- **EKI-2741LX-BE** Giga Ethernet to 1000Base-LX fiber converter
- **EKI-2741LXI-BE** Giga Ethernet to 1000Base-LX fiber converter with wide temp.

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