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

Introduction

The EKI-2741 is designed to convert Gigabit Ethernet networks to Gigabit fiber networks by transparently convert. o E hernet 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/MDL au 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 of a voptic 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 site or untinues 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 link has failed, giving the application software a chance to react to the situation.

Specifications

Communications

- Standard
- LAN
- Transmission Distance

Ethernet: Up to 100 m Fiber: Multi-mode: Up to 550 m Single-mode: Up to 10. m (EKI- 2741LX) or up to 110 km (EKI-27, 17F) SFP: Up to 110 km (EKI-2741F) Up to 1021 Mbrs

IEEE 802.3, 802.3u, 802.3ab, 802.3x, iLEE 802.3z

10/100/1000Base-T (X), 1000Bacc SX or 1000Base-LX

Optical Fiber Multi-mode (EKI-2741SX/SXI)

Transmission Speed

Single-mode (EKI-2741LX/LXI)

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
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Wavelength: 850 nm

Tx Power: -4/-9.5 dBm

Rx Sensitivity: -18 dBm

Wavelength: 1310 nm

Tx Power: -3/-9.5 dBm

Rx Sensitivity: -20 dBm Parameters: 9/125 um

Parameters: 50/125 um, 62.5/125 um

Power

Power Consumption 3.5W 12 ~ 48 V_{DC}, redundant dual inputs Power Input

Mechanism

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

Protection

Power Reverse Present **Overload current** Present

Environment

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

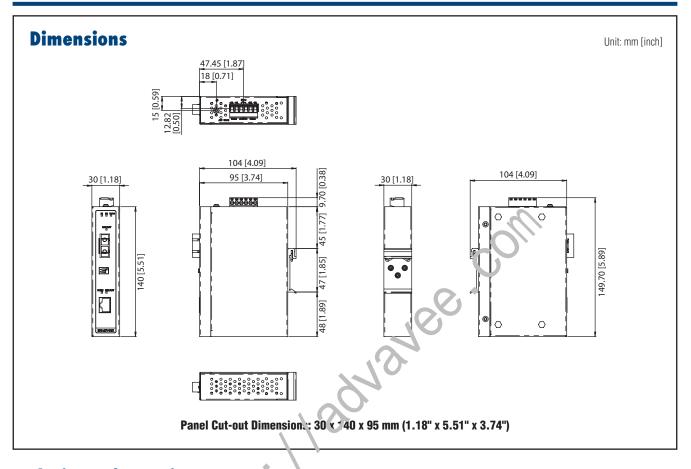
TBD

- Storage Humidity
- MTBF

Certification

 Safety EMI EMS 	UL 60950 CE, FCC Class A 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 Freefall 	IEC 60068-2-27 IEC 60068-2-32
Vibration	IEC 60068-2-6

EKI-2741 Series



Ordering Information

- EKI-2741F-BE
- EKI-2741FI-BE
- EKI-2741SX-BE
- EKI-2741SXI-BE
- EKI-2741LX-BE
- EKI-2741LXI-BE
- Giga Ethernet to SFP fiber convertor
- Giga Ethernet to STP fiber onve ter with wide temp. Giga Ethernet to STP fiber onve ter with wide temp. Giga Ethernet to 1000 Base V fiber converter Giga Ethernet to 1000 Base X fiber converter with wide temp. Giga Ethernet to 1000 Base X fiber converter

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- - Giga Ethernet to 1200Base-LX fiber converter with wide temp.