EKI-2741 Series Optic Gigabit Industrial Media Converters

10/100/1000T (X) to Fiber



Features

- Provides 1 x 1000 Mbps Ethernet port with RJ45 connector
- Provides 1 x 1000 Mbps fiber port with SC or SFP (mini-GBIC) type connector for 1000Base-SX/LX device
- Provides DIP switch for full/half duplex setting
- 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: 9K bytes

Introduction

EKI-2741 is designed to convert Gigabit Ethernet networks to Gigabit fiber networks by transparently converting Ethernet signals to optic signals. Therefore, 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 Vbc. Besides, it also provides 3,000 Vbc surge (EFT) protection against over-voltage, so it is suitable for harsh operating environments.

EKI-2741 is an enhanced gigabit Ethernet to fiber optic converter. Aside from its standard features, the versatile EKI-2741 also has the LFP (Link Fault Pass-through) feature. When one side of the link fails, the other side continues transmitting packets, and waiting for a response that never arrives from the disconnected side. EKI-2741 will force the link to shut down as soon as noticed that the other link has failed, giving the application software a chance to react to the situation.

Specifications

Communications

IEEE 802.3, 802.3u, 802.3ab, 802.3x, IEEE 802.3z Standard IAN 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 Wavelength: 850 nm (EKI-2741SX) Tx Power: -4/-9.5 dBm Rx Sensitivity: -18 dBm

Parameters: 50/125 um, 62.5/125 um

Single-mode Wavelength: 1310 nm (EKI-2741LX/LXI) Tx Power: -3/-9.5 dBm Rx Sensitivity: -20 dBm

Parameters: 9/125 um

Interface

Connectors

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 Port Alarm, LFP

Power

Power Consumption 5.28 W (EKI-2741F)

5.18 W (EKI-2741SX) 5.30 W (EKI-2741LX)

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

Mechanism

Dimensions (W x H x D) 37 x 140 x 95 mm (1.46" x 5.51" x 3.74") IP30, Metal shell with solid mounting kits **Enclosure** 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 5 ~ 95% (non-condensing) **Storage Humidity** 0 ~ 95% (non-condensing) MTBF 515,600 hours (EKI-2741F) 525,300 hours (EKI-2741SX/LX)

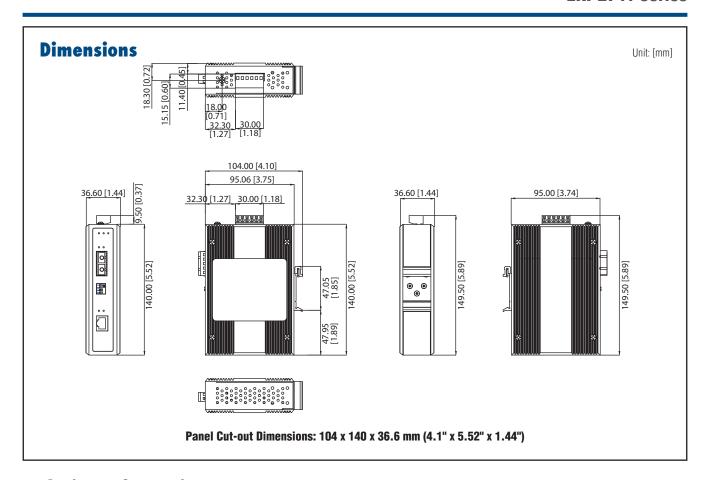
Certification

Vibration

Safety UL 60950-1, CAN/CSA-C22.2 No.60950 EMI FCC Part 15 Subpart B Class A, EN 55022 Class A EMS EN 61000-4-2 EN 61000-4-3 FN 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-2741FEKI-2741SX Giga Ethernet to SFP Fiber Converter

Giga Ethernet to 1000Base-SX Fiber Converter

EKI-2741LX Giga Ethernet to 1000Base-LX Fiber Converter

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