

## Features

- Provides $1 \times 10 / 100 / 1000$ Mbps Ethernet port with RJ45 connector
- Provides $1 \times 1000$ Mbps fiber port with SC type connector for 1000Base-SX/ LX device
- Provides $1 \times 100 / 1000$ 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 $12 \sim 48$ Voc 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 $12 \sim 48 \mathrm{~V}_{\text {Dc }}$. 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
- LAN
- Transmission Distance
- Transmission Speed
- Optical Fiber Multi-mode (EKI-2741SX/SXI)

Single-mode (EKI-2741LX/LXI)

## Interface

- Connectors
- LED Indicators
- DIP Switch


## Power

- Power Consumption
3.5W
- Power Input

Fiber:
$1 \times$ RJ45

IEEE 802.3, 802.3u, 802.3ab, 802.3x, IEEE $802.3 z$
10/100/1000Base-T (X), 1000Base-SX or 1000Base-LX
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)
Up to 1000 Mbps

Wavelength: 850 nm
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
Rx Sensitivity: -20 dBm
Parameters: 9/125 um

1 x SC type fiber connector (EKI-2741SX/LX) or $1 \times$ SFP type fiber connector (EKI-2741F) 6-pin removable screw terminal (power \& relay) P1, P2, P-Fail Fiber: LNK/ACT Ethernet: 1000M, LNK/ACT
Power alarm, LFP

## Mechanism

- Dimensions (W x H x D) $30 \times 140 \times 95 \mathrm{~mm}\left(1.18^{\prime \prime} \times 5.51^{\prime \prime} \times 3.74^{\prime \prime}\right)$
- Enclosure IP30, metal shell with solid mounting kits
- Mounting DIN-rail, wall

Protection

- Power Reverse Present
- Overload current Present


## Environment

- Operating Temperature $-10 \sim 60^{\circ} \mathrm{C}\left(14 \sim 140^{\circ} \mathrm{F}\right.$

Wide Temp Model

- Storage Temperature
- Operating Humidity
- Storage Humidity
- MTBF

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-40 \sim 75^{\circ} \mathrm{C}\left(-40 \sim 167^{\circ} \mathrm{F}\right)
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$-40 \sim 85^{\circ} \mathrm{C}\left(-40 \sim 185^{\circ} \mathrm{F}\right)$
10 ~ 95\% (non-condensing)
10~95\% (non-condensing)
TBD

## Certification

- Safety UL 60950
- EMI CE, FCC Class
- 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
IEC 60068-2-27
IEC 60068-2-32

- Freefall

IEC 60068-2-6

## Dimensions



Panel Cut-out Dimensions: $30 \times 140 \times 95 \mathrm{~mm}\left(1.18^{\prime \prime} \times 5.51 " \times 3.74\right.$ ")

## 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 converter
Giga Ethernet to SFP fiber converter with wide temp
Giga Ethernet to 1000Base-SX fiber converter
Giga Ethernet to 1000Base-SX fiber converter with wide temp.
Giga Ethernet to 1000Base-LX fiber converter
Giga Ethernet to 1000Base-LX fiber converter with wide
temp.

