

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 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

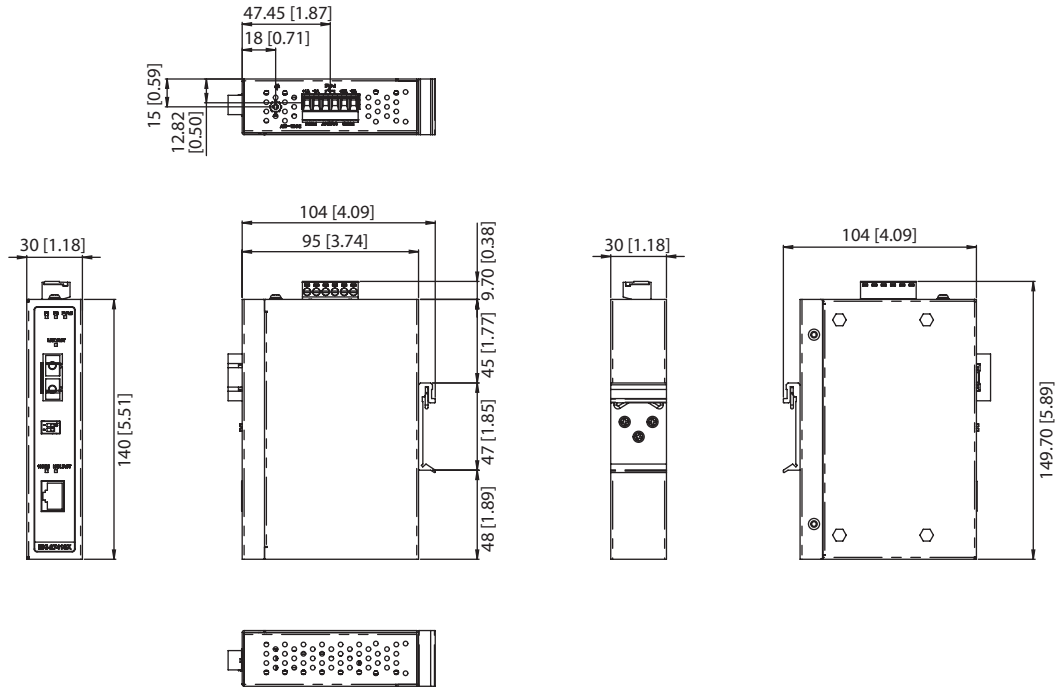
- **Operating Temperature** -10 ~ 60 °C (14 ~ 140 °F)
Wide Temp Model -40 ~ 75 °C (-40 ~ 167 °F)
- **Storage Temperature** -40 ~ 85 °C (-40 ~ 185 °F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** TBD

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

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. |

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

 Uhlířská 1064/3, 710 00 Ostrava, Česká republika

 obchod@autocont-ipc.cz

 +420 552 301 002

 www.autocont-ipc.cz



PRŮMYSLOVÉ POČÍTAČE

fanless embedded PC, do racku, ...



POČÍTAČE S DISPLEJEM

panelové PC, terminály, do vozidel, ...



AUTOMATIZACE A SBĚR DAT

převodníky, karty, moduly, switche, ...



PERIFERIE A KOMPONENTY

monitory, klávesnice, desky, skříně, ...



NOTEBOOKY A TABLETY

odolné, windows, android, IP65, ...



INFORMAČNÍ KIOSKY

interiérové, venkovní, ...



MEDICÍNSKÁ TECHNIKA

počítače, tablety, LCD, klávesnice, ...



SOFTWAREVÁ ŘEŠENÍ

pro výrobu, zaměstnance, kiosky, ...



PŘEJÍT DO E-SHOPU

eshop.autocont-ipc.cz



DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.