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 Voc. 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	 Dimensions (W x H x D) 	
LAN	10/100/1000Base-T (X), 1000Base-SX or 1000Base-LX	 Enclosure 	IP30, metal shell
 Transmission Distance 	Ethernet: Up to 100 m Fiber:	 Mounting 	DIN-rail, wall
	Multi-mode: Up to 550 m	Protection	
	Single-mode: Up to 10 km (EKI-2741LX) or up to	Power Reverse	Present
	110 km (EKI-2741F) SFP: Up to 110 km (EKI-2741F)	 Overload current 	Present
 Transmission Speed 	Up to 1000 Mbps	Environment	
 Optical Fiber 		 Operating Temperature 	-10 ~ 60 °C (14
Multi-mode	Wavelength: 850 nm	Wide Temp Model	-40 ~ 75 °C (-40
(EKI-2741SX/SXI)	Tx Power: -4/-9.5 dBm Rx Sensitivity: -18 dBm	 Storage Temperature 	-40 ~ 85 °C (-40
	Parameters: 50/125 um, 62.5/125 um	 Operating Humidity 	10 ~ 95% (non-c
Single-mode	Wavelength: 1310 nm	 Storage Humidity 	10 ~ 95% (non-c
(EKI-2741LX/LXI)	Tx Power: -3/-9.5 dBm	= MTBF	TBD
	Rx Sensitivity: -20 dBm		100
	Parameters: 9/125 um	Certification	
Interface		 Safety 	UL 60950
Connectors	1 x RJ45	= EMI	CE, FCC Class A
	1 x SC type fiber connector (EKI-2741SX/LX) or	= EMS	EN 61000-4-2
	1 x SFP type fiber connector (EKI-2741F)		EN 61000-4-3
	6-pin removable screw terminal (power & relay)		EN 61000-4-4
LED Indicators	P1, P2, P-Fail		EN 61000-4-5 EN 61000-4-6
	Fiber: LNK/ACT Ethernet: 1000M, LNK/ACT		EN 61000-4-8
DIP Switch	Power alarm. LFP	Shock	IEC 60068-2-27
- DIF SWILLI	r uwei alaiii, Li r	 Freefall 	IEC 60068-2-32
Power		 Vibration 	IEC 60068-2-6
 Power Consumption 	3.5W		
 Power Input 	$12 \sim 48 V_{DC}$, redundant dual inputs		
. enor input			

V_{DC}, redundant dua

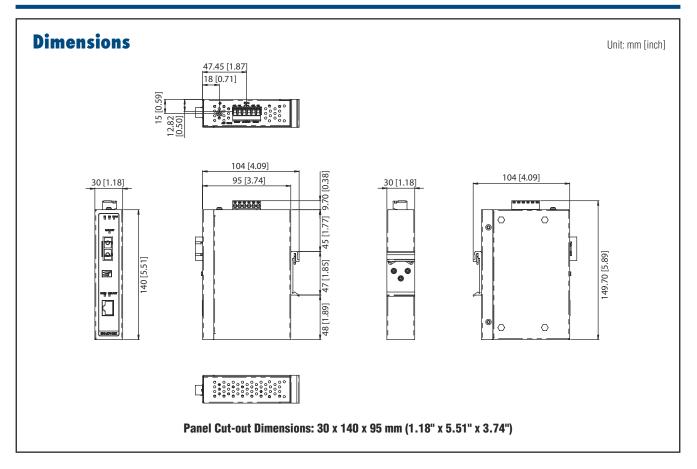
Mechanism

- mm (1.18" x 5.51" x 3.74")
 - ell with solid mounting kits

•	Operating Temperature Wide Temp Model	-10 ~ 60 °C (14 ~ 140 °F) -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)

 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	IEC 60068-2-27
 Freefall Vibration 	IEC 60068-2-32 IEC 60068-2-6

EKI-2741 Series



Ordering Information

- EKI-2741F-BE
- EKI-2741FI-BE EKI-2741SX-BE
- Giga Ethernet to SFP fiber converter with wide temp.
- EKI-2741SXI-BE
- EKI-2741LX-BE
- EKI-2741LXI-BE
- Giga Ethernet to 1000Base-SX fiber converter Giga Ethernet to 1000Base-SX fiber converter Giga Ethernet to 1000Base-LX fiber converter

Giga Ethernet to SFP fiber converter

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