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 Vpc. Besides, it also provides 3,000 Vpc 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.

Mechanism

Specifications

Communications

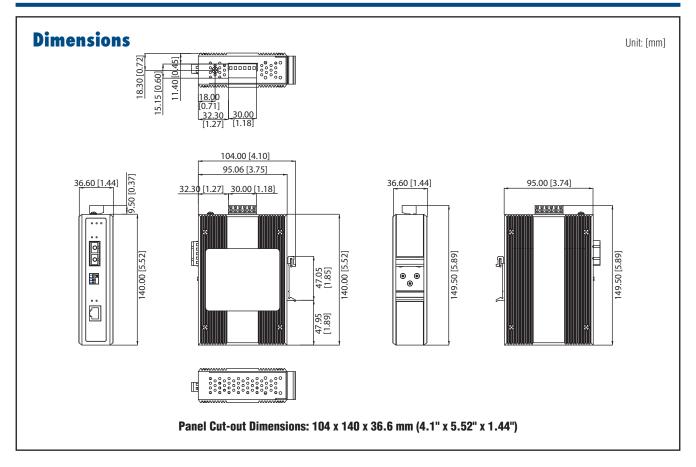
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 Standard LAN Transmission Distance 	IEEE 802.3, 802.3u, 802.3ab, 802.3x, IEEE 802.3z 10/100/1000Base-T (X), 1000Base-SX or 1000Base-LX Ethernet: Up to 100 m Fiber:	 Dimensions (W x H x D) Enclosure Mounting 	37 x 140 x 95 mm (1.46" x 5.51" x 3.74") IP30, Metal shell with solid mounting kits DIN-rail, Wall
	Multi-mode: Up to 550 m	Protection	
	Single-mode: Up to 10 km (EKI-2741LX) or up to 110 km (EKI-2741F) SFP: Up to 110 km (EKI-2741F)	Power ReverseOverload current	Present Present
 Transmission Speed 	Up to 1000 Mbps	Environment	
 Optical Fiber 		 Operating Temperature 	-10 ~ 60°C (14 ~ 140°F)
Multi-mode (EKI-2741SX)	Wavelength: 850 nm Tx Power: -4/-9.5 dBm Rx Sensitivity: -18 dBm Parameters: 50/125 um, 62.5/125 um	 Operating Temperature Wide Temp Model Storage Temperature Operating Humidity 	$-40 \sim 75^{\circ}C (-40 \sim 167^{\circ}F)$ $-40 \sim 85^{\circ}C (-40 \sim 185^{\circ}F)$ $5 \sim 95\%$ (non-condensing)
Single-mode (EKI-2741LX/LXI)	Wavelength: 1310 nm Tx Power: -3/-9.5 dBm Rx Sensitivity: -20 dBm	 Storage Humidity MTBF 	0 ~ 95% (non-condensing) 515,600 hours (EKI-2741F) 525,300 hours (EKI-2741SX/LX)
	Parameters: 9/125 um	Certification	
Interface		 Safety 	UL 60950-1, CAN/CSA-C22.2 No.60950
 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)	• EMI • EMS	FCC Part 15 Subpart B Class A, EN 55022 Class A EN 6100-4-2 EN 61000-4-3 EN 61000-4-4
 LED Indicators 	P1, P2, P-Fail Fiber: LNK/ACT Ethernet: 1000M, LNK/ACT		EN 61000-4-5 EN 61000-4-6 EN 61000-4-8
DIP Switch	Port Alarm, LFP	Shock	IEC 60068-2-27
Power		FreefallVibration	IEC 60068-2-32 IEC 60068-2-6
 Power Consumption 	5.28 W (EKI-2741F) 5.18 W (EKI-2741SX)		

Power Input

5.30 W (EKI-2741LX)

12 ~ 48 V_{DC}, redundant dual inputs

EKI-2741 Series



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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