EKI-2741 Series

10/100/1000TX to Fiber Optic **Gigabit Industrial Media Converters**



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 3,000 V_{DC} surge (EFT) protection
- Supports 4,000 V_{DC} Ethernet ESD protection
- . Supports redundant +12-48 V_{DC} power input
- Provides flexible mounting: DIN-rail & Wallmounting
- Provides Link Fault Pass-through (LFP) .
- Supports wide Operating Temperature from -40 ~ 85° C

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 V_{DC}. Besides, it also provides 3,000 V_{DC} surge (EFT) protection against over-voltage, so it is suitable for harsh operating environments.

EKI-2741 is an enhanced glogabit 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

Enclosure

Mounting

•	Standard LAN Transmission Distance	Fiber: Multi-mode: Up to 550 m Single-mode: Up to 10 km (2741LX) or 110 km (2741F) SFP: Up to 110 km (2741F)			
•	Transmission Speed	Up to 1000 Mbps			
Interface					
•	Connectors LED Indicators	1 x RJ-45 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) 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	2 x Unregulated 12 \sim 48 V _{DC}			
Mechanism					
•	Dimensions (W x H x D) 37 x 140 x 95 mm				

IP30, Metal shell with solid mounting kits

Protection

ESE) (Ethernet)	4,000 V _{DC}
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- Surge (EFT for power) 3,000 V_{DC} Present
- **Power Reverse** Overload

0.9 A/12 Vdc (Re-settable Fuse)

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 hrs (EKI-2741F)		
		525,300 hrs (EKI-2741SX/LX)		
Certifications				
•	Safety	UL 60950-1, CAN/CSA-C22.2 No.60950		
•	EMC	U.S.A.: FCC Part 15 CISPR 22		
		EU: EN55011, EN61000-6-4, EN55022 Class A,		
		EN61000-3-s2/3, EN55024,		
		IEC61000-4-2/3/4/5/6/8, EN61000-6-2		
•	Shock	IEC60068-2-27		

- Shock Freefall
- Vibration

Ordering Information

EKI-2741F Industrial Gigabit Ethernet to SFP Type Fiber Optic Converter EKI-2741SX Industrial Gigabit Ethernet to 1000Base-SX SC Type Fiber Optic Converter

IEC60068-2-32

IEC60068-2-6

Industrial Gigabit Ethernet to 1000Base-LX SC Type EKI-2741LX Fiber Optic Converter

- Industrial Gigabit Ethernet to 1000Base-LX SC Type EKI-2741LXI Fiber Optic Converter, Wide Temp.
- **Industrial Ethernet Solutions** AD\ANTECH

DIN-rail, Wall