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# **EKI-2741 Series** 10/100/1000T (X) to Fiber Optic Gigabit Industrial Media Converters

Provides 1 x 1000 Mbps fiber port with SC type connector for 1000Base-SX/

Provides 1 x 10/100/1000 Mbps Ethernet port with RJ45 connector

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 redundant 12 ~ 48 V<sub>DC</sub> power input · Provides flexible mounting: DIN-rail and wall mount

Provides Link Fault Pass-through (LFP)



### 

#### 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**

<ul> <li>Standard</li> </ul>	IEEE 802.3, 802.3u, 802.3ab, 802.3x, IEEE 802.3z	<ul> <li>Dimensions (W x H x D)</li> </ul>	30 x 1
- LAN	10/100/1000Base-T (X), 1000Base-SX or 1000Base-LX	Enclosure	IP30, I
<ul> <li>Transmission Distance</li> </ul>	Ethernet: Up to 100 m Fiber:	<ul> <li>Mounting</li> </ul>	DIN-ra
	Multi-mode: Up to 550 m	Protection	
	Single-mode: Up to 10 km (EKI-2741LX) or up to	Power Reverse	Preser
	110 km (EKI-2741F) SFP: Up to 110 km (EKI-2741F)	<ul> <li>Overload current</li> </ul>	Preser
Transmission Speed	Up to 1000 Mbps	<b>-</b>	
<ul> <li>Optical Fiber</li> </ul>		Environment	
Multi-mode	Wavelength: 850 nm	<ul> <li>Operating Temperature</li> </ul>	-10 ~
(EKI-2741SX/SXI)	Tx Power: -4/-9.5 dBm	Wide Temp Model	-40 ~
	Rx Sensitivity: -18 dBm	<ul> <li>Storage Temperature</li> </ul>	-40 ~
	Parameters: 50/125 um, 62.5/125 um	<ul> <li>Operating Humidity</li> </ul>	10 ~ 9
Single-mode	Wavelength: 1310 nm	<ul> <li>Storage Humidity</li> </ul>	10 ~ 9
(EKI-2741LX/LXI)	Tx Power: -3/-9.5 dBm	<ul> <li>MTBF</li> </ul>	TBD
	Rx Sensitivity: -20 dBm Parameters: 9/125 um	_	
	Faldineleis. 9/125 ulli	Certification	
Interface		<ul> <li>Safety</li> </ul>	UL 60
<ul> <li>Connectors</li> </ul>	1 x RJ45	= EMI	CE, FC
	1 x SC type fiber connector (EKI-2741SX/LX) or	EMS	EN 61
	1 x SFP type fiber connector (EKI-2741F)		EN 61
	6-pin removable screw terminal (power & relay)		EN 61
LED Indicators	P1, P2, P-Fail		EN 61
	Fiber: LNK/ACT		EN 61 EN 61
	Ethernet: 1000M, LNK/ACT	Shock	IEC 60
DIP Switch	Power alarm, LFP		
Power		Freefall     Vibration	IEC 60
	a =:	<ul> <li>Vibration</li> </ul>	IEC 60
Power Consumption	3.5W		
Power Input	$12 \sim 48 V_{DC}$ , redundant dual inputs		

#### Mechanism

**Features** 

LX device

Supports auto-negotiation

- Jumbo Frame: 9216 bytes

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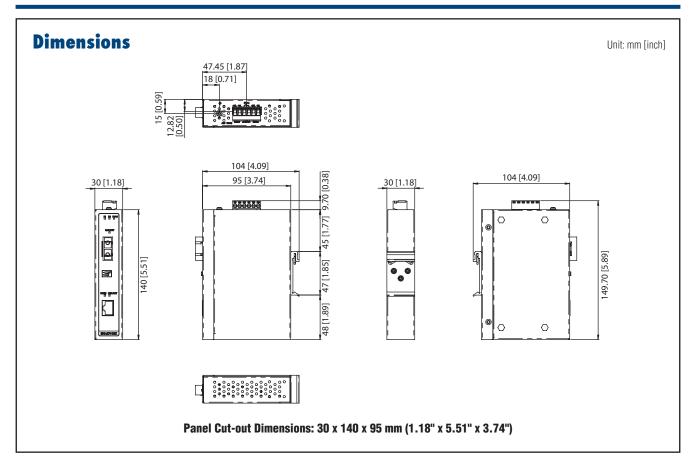
- 30. metal shell with solid mounting kits IN-rail, wall
- esent resent

<ul> <li>Operating Temperate</li> <li>Wide Temp Model</li> </ul>	ure -10 ~ 60 °C (14 ~ 140 °F) -40 ~ 75 °C (-40 ~ 167 °F)
<ul> <li>Storage Temperature</li> </ul>	e -40 ~ 85 °C (-40 ~ 185 °F)
Operating Humidity	10 ~ 95% (non-condensing)
Storage Humidity	10 ~ 95% (non-condensing)

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
IEC 60068-2-27
I IEC 60068-2-32
DN IEC 60068-2-6

Industrial Ethernet Soultions AD\ANTECH All product specifications are subject to change without notice.

#### **EKI-2741 Series**



### **Ordering Information**

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

Giga Ethernet to SFP fiber converter

temp.

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