EKI-2541M Series 10/100TX to Multi-mode SC Type Fiber EKI-2541S Series

Optic Industrial Media Converters 10/100TX to Single-mode SC Type Fiber **Optic Industrial Media Converters**



Features

- Provides 1 x 10/100 Mbps Ethernet port with RJ45 connector
- Provides 1 x 100 Mbps multi-mode/single-mode SC type fiber port .
- Provides internal jumper for Link Fault Pass-through (LFP) setting •
- Supports full/half duplex flow control
- Supports store and forward transmission
- Supports auto-negotiation
- Supports MDI/MDI-X auto crossover
- Provides surge (EFT) protection 3,000 V_{DC} for power line
- Supports 4,000 V_{DC} Ethernet ESD protection
- Supports redundant +12-48 V_{DC} power input
- Provides flexible mounting: DIN-rail & Panel Mounting
- Supports wide Operating Temperature from -40 ~ 85° C

Present

0.9 A@ 12 V_{DC} (Re-settable Fuse)

Introduction

EKI-2541M/2541S is designed to convert Ethernet networks to fiber networks by transparently converting Ethernet signals to optic signals. The advantages of fiber optics are wide bandwidth, EMI immunity and long-distance transmissions.

Therefore, EKI-2541M/2541S is an ideal solution for "fiber to building" applications at central offices or local sites.

EKI-2541M/2541S supports MDI/MDIX auto detection, so you don't need to use crossover wires. Furthermore, the EKI-2541M/2541S can work normally from -10 ~ 60° C and 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.

Link Fault Pass-Through (LFP)

EKI-2541M/2541S is an enhanced Ethernet to fiber-optic converter. Aside from its standard features, the versatile EKI-2541M/2541S 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. Use the internal jumper to enable the LFP function, then EKI-2541M/2541S 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.

Power Reverse

Overload

Environmont

Specifications

Communications

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 Standard LAN Transmission Distance 	IEEE802.3, 802.3u, 802.3x 10/100Base-TX, 100Base-FX Ethernet: Up to 100m Fiber: Multi-mode: up to 2 km	 Operating Temperature Wide Temp. model Storage Temperature Operating Humidity 	-40 ~ 85° C (-40 ~ 185° F)
 Transmission Speed 	Fiber: Single-mode: up to 30 km Up to 100 Mbps	 Operating Humidity Storage Humidity MTBF 	5 ~ 95% (non-condensing) 0 ~ 95% (non-condensing) 577,175 hrs
Interface		Certifications	
 Connectors 	1 x RJ-45 1 x SC type fiber connector 6-pin removable screw terminal (power)	SafetyEMC	UL 60950-1, CAN/CSA-C22.2 No.60950 U.S.A.: FCC Part 15 CISPR 22
 LED Indicators 	P1, P2, P-Fail Ethernet: 10/100M, LNK/ACT Fiber: HDX/FDX, LNK/ACT		EU: EN55011, EN61000-6-4, EN55022 Class A, EN61000-3-2/3, EN55024, IEC61000-4-2/3/4/5/6/8, EN61000-6-2
 DIP Switch 	Port/Power Alarm, LFP Fiber: HDX/FDX, Converter/Switch	ShockFreefallVibration	IEC60068-2-27 IEC60068-2-32 IEC60068-2-6
Power			
 Power Consumption 	Max. 5W	Ordering Info	or mation
Power Input	$2 \text{ x Unregulated } 12 \sim 48 \text{ V}_{\text{DC}}$	 EKI-2541M 	Industrial Ethernet to Multi-mode SC Type Fiber Optic Converter
MechanismDimensions (W x H x D)		 EKI-2541MI 	Industrial Ethernet to Multi-mode SC Type Fiber Optic Converter, Wide Temp.
 Mounting 	DIN-rail, Wall	EKI-2541S	Industrial Ethernet to Single-mode SC Type Fiber Optic Converter
Protection ESD (Ethernet) Surge (EFT for power) 	4,000 V _{DC} 3,000 V _{DC}	• EKI-2541SI	Industrial Ethernet to Single-mode SC Type Fiber Optic Converter, Wide Temp.

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