EKI-3541M/3541S

Industrial Ethernet to Fiber Optic Converters

STARTUP MANUAL

Overview

The EKI-3541M/3541S Series Industrial Ethernet Fiber Optic Convertor is a cost effective solution and meets the high reliability requirements demanded by industrial applications. It provides the redundant power inputs that prevent power failure.

Packing List

Before installation, please make sure that you have received the following:

- 1 x EKI-3541M or EKI-3541S Industrial Ethernet to Fiber Optic Converters
- 1 x Wall Mounting Bracket
- 1 x DIN-rail Mounting Bracket and Screws
- 1 x EKI-3541M/3541S Startup Manual

If anything is missing or damaged, contact your distributor or sales representative immediately.

User Manual

For more detailed information, please refer to the full manual which can be found on the Advantech's website.

Specifications

General

- Compatibility**:** IEEE 802.3, 802.3u, 802.3x,
- LAN: 10Base-TX, 100Base-FX
- Transmission Distance:
  Ethernet: 10/100Base-TX
  Multi-Mode Fiber: 2Km, 50/125um-62.51125um
  Single-Mode Fiber: 30Km, 9/125um
  Wavelength: 1310nm (Multi-mode/Single-mode)
- Connectors:
  1 x 10/100Base-TX RJ-45 port and
  1 x 100Base-FX Fiber Optic port
- Switch Architecture**:** Store and Forward
- Power Requirements: Unregulated + 12-48 V_{DC}, Protected against power reversal
- Link Fault Pas-Through (LFP): Present
- DIP switch: LFP,Full/Half mode of TP and Fiber, TP Speed, TP Auto-Negotiation.
- Power Consumption**:**
  EKI-3541M: 2.4 Watts
  EKI-3541S: 2.4 Watts
- Dimensions (W x H x D)**:** 27x120x85 mm
- Enclosure**:** IP40
- Operating Temperature: -10 ~ 60°C (14°F~140°F)
- Storage Temperature: -40 ~ 85°C (-40°F~185°F)
- Operating Humidity: 5%~95% (non-condensing)
- Storage Humidity 0%-95% (non-condensing)
- Safety: UL60950
- EMI: FCC Class A, CE and UL
- Warranty: 5 years

Notes

For more information on this and other Advantech products, please visit our websites at:

http://www.advantech.com/eAutomation

For technical support and service:

http://www.advantech.com/support/

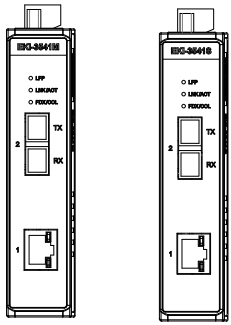
This startup manual is for EKI-3541M/3541S

Part No. xxxxxxxxxxx 1st Edition
March 2013

ADVANTECH

Overview

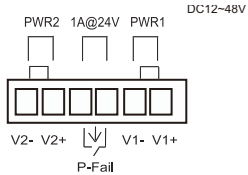
EKI-3541M EKI-3541S



Power Connection

The EKI-3541M/3541S series switch supports dual +12~48V_{DC} power inputs.

1. Insert the positive and negative wires into the V+ and V- contacts on the terminal block.
2. Tighten wire-clamps to prevent the DC wires from loosing.



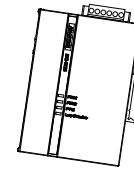
Warning: This is a Class A product. In domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

DIP Switch

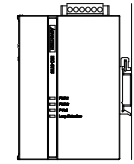
DIP No.	Function	ON	OFF
1	Link Fault Pass Through	Enable	Disable
	ON: Enables "LFP", the link status on TX port will inform the FX port of the same device. **OFF**: Disables "LFP", the link status on TX port will not inform the FX port of the same device.		
2	Force Fiber Port Duplex	Enable	Disable
	ON: Forces Full Duplex on Fiber port **OFF**: Forces Half Duplex on Fiber port		
3	TX Port for Auto-Negotiation	Enable	Disable
	ON: Enable Auto-Negotiation for TX port **OFF**: Enable forced mode for TX port		
4	Force TP Speed	Enable	Disable
	(Only when Auto-Negotiation is disabled, DIP No.3) **ON**: Forces 100Mbps on TX port. **OFF**: Forces 10Mbps on TX port.		
5	Force TP Duplex	Enable	Disable
	(Only when Auto-Negotiation is disabled, DIP No.3) **ON**: Forces Full Duplex on TX port. **OFF**: Forces Half Duplex on TX port.		

Mounting

DIN-rail Mounting

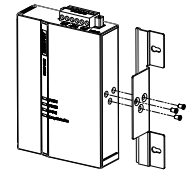


1. Hang the device to the DIN-rail.

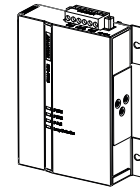


2.Hook the device over the DIN rail and let it drop down straight to slide over the rail smoothly.

Wall Mounting



1. Attach the brackets included to the switch with screws.



2.With the brackets attached, hang the switch to nails on the wall.