

EKI-2541M/2541S Series Industrial Ethernet to Fiber Optic Converters Startup Manual

Packing List

Before you begin installing your converter, please make sure that the following materials have been shipped:

- 1 x EKI-2541M or EKI-2541S Industrial Ethernet to Fiber Optic Converter
- 2 x Wall Mounting Bracket and Screws
- 1 x DIN-rail Mounting Bracket and Screws
- 1 x EKI-2541M/2541S Startup Manual

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

Overview

The EKI-2541M/2541S Series Industrial Ethernet to Fiber Optic Converter is a cost-effective solution and meets the high reliability requirements demanded by industrial applications. It provides the redundant power inputs that prevent the power failure.

User Manual

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

Specifications

- **Compatibility:** IEEE 802.3, 802.3u, 802.3x
- **LAN:** 100Base-TX, 100Base-FX
- **Transmission Distance:**
 - Ethernet: 10/100Base-TX
 - Multi-Mode Fiber: 2Km, 50/125um~62.5/125um
 - 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 Vdc , Protected against power reversal.
- **Overload current protection:** 0.9A@12Vdc(25°C)
- **Link Fault Pass-Through(LFP):** Fiber port to TX port and TX port to Fiber port
- **DIP switch:** Port Alarm, LFP, Full/Half mode, Switch/Converter mode
- **Power Consumption:**
 - EKI-2541M(I): 2.7Watts
 - EKI-2541S(I): 2.3Watts
- **Dimension (W x H x D):** 30 x 140 x 95 mm
- **Enclosure:** IP 30
- **ESD Protection:** 4,000Vdc (Ethernet)
- **Surge (EFT) Protection:** 3,000Vdc (Power)
- **Operating Temperature:**
 - 10°C~60°C(14~140°F):EKI-2541M,EKI-2541S
 - 40°C~75°C(-40~167°F):EKI-2541MI,EKI-2541SI
- **Storage Temperature:** -40°C~85°C (-40~185°F)
- **Operating Humidity:** 5% ~ 95% (non-condensing)
- **Storage Humidity:** 0% ~ 95% (non-condensing)
- **EMI:** Meets FCC Class A, CE and UL
- **Warranty:** 2 years

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

<http://www.advantech.com>

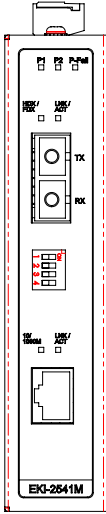
<http://www.advantech.com/eAutomation>

For technical support and service, please visit our support website at:

<http://service.advantech.com.tw/eservice/>

1st Edition
March 2021

Overview



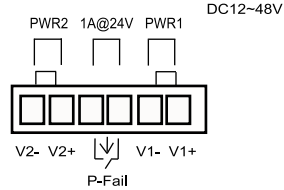
DIP Switch

- DIP Switch 1: ON : Enables Power Alarm
OFF: Disables Power Alarm
- DIP Switch 2: ON : Enables LFP (Link Fault Pass-Through)
OFF: Disables LFP (Link Fault Pass-Through)
- DIP Switch 3: ON : 100Base-FX Half-mode
OFF: 100Base-FX Full-mode
- DIP Switch 4: ON : Converter mode (100TX to 100FX)
OFF: Switch mode

Power Connection

The EKI-2541M/2541S series Industrial Ethernet to Fiber Optic Converter supports dual +12 ~ 48 Vdc power inputs and power fail relay output.

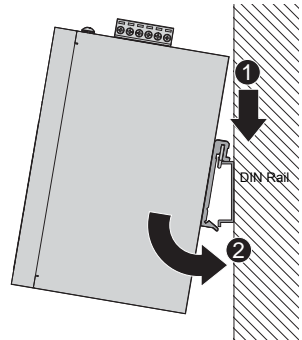
1. Insert the positive and negative wires into the V+ and V- contacts on the terminal block connector.
2. To tighten the wire-clamp screws for preventing the DC wires to loose.



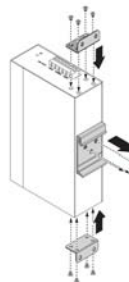
Mounting

• Din-Rail Mounting

1. Insert the top of DIN-Rail into the track.
2. Tightly push the DIN-Rail into the track.



• Wall Mounting



1. Use the screws included in the package to combine the EKI-2541M/2541S Industrial Ethernet to Fiber Optic Converter and metal mounting kit.
2. Hang on the EKI-2541M/2541S Industrial Ethernet to Fiber Optic Converter to the nails on the wall.