

# EKI-2541ML/SL Series

## 10/100T (X) to Multi-Mode and Single-Mode SC Type Fiber Optic Media Converter

### Overview

The EKI-2541ML/2541SL 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, the EKI-2541ML/2541SL is an ideal solution for “fiber to building” applications at central offices or local sites.

EKI-2541ML/2541SL supports MDI/MDIX auto detection, so you don't need to use crossover wires. Furthermore, the EKI-2541ML/SL can work normally from 0 to 50°C and also is the most cost-effective solution for fiber optic media converter.

### Packing List

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

- 1 x EKI-2541ML/SL Fiber Optic Media Converter
- 5V/1A Power Adapter
- 1 x EKI-2541ML/SL Series Startup manual

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

### Datasheet

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

### Notes

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

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

For technical support and service:

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

This startup manual is for EKI-2541ML & EKI-2541SL.

1st Edition

Sept. 2018

### Specifications

#### General

- **Compatibility:** IEEE 802.3, 802.3u, 802.3x
- **LAN:** 10/100Base-T (X), 100Base-FX
- **Transmission Distance:**
  - Ethernet: Up to 100 m
  - Fiber:
    - Multi-mode: Up to 2 km (EKI-2541ML)
    - Single-mode: Up to 40 km (EKI-2541SL)
- **Transmission Speed:** Up to 100Mbps
- **Optical Fiber:**
  - Multi-Mode (EKI-2541ML)
    - Wavelength: 1310nm
    - Tx Power: -14 / -20 dBm
    - Rx Sensitivity: -32 dBm
    - Parameters: 50/125 um, 62.5/125 um
  - Single-Mode (EKI-2541SL)
    - Wavelength: 1310nm
    - Tx Power: -8/-15 dBm
    - Rx Sensitivity: -34 dBm
    - Parameters: 9/125 um
- **Connectors:**
  - 1 x RJ45
  - 1 x SC type fiber connector
- **LED Indicators:** FIBER, LAN, PWR
- **Operating Current:** 0.31A
- **Power Adapter:** 5V DC, 1A external power adapter
- **Power Consumption:** 1.6W
- **Dimensions (W x H x D):** 75 x 22.6 x 101.2 mm (2.95" x 0.89" x 3.98")
- **Enclosure:** IP30
- **Operating Temperature:** 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature:** -40 ~ 70°C (-40 ~ 158°F)
- **Humidity:** 5 ~ 90% (non-condensing)
- **Safety:** LVD
- **EMC:** CE, FCC
- **Warranty:** 2 years

### Overview

#### EKI-2541ML/SL

