

# EKI-2741ML/SL/FL Series

## 10/100/1000T (X) to Fiber Optic Gigabit Media Converters

### Overview

The EKI-2741 series is designed to convert Gigabit Ethernet networks to Gigabit fiber networks by transparently converting Ethernet signals to optic signals. Therefore, the EKI-2741 series is an ideal solution for “fiber to building” applications at central offices or local sites. EKI-2741 series supports MDI/MDIX auto detection, so you don’t need to use crossover wires. EKI-2741 series is an enhanced gigabit Ethernet to fiber optic converter. Furthermore, the EKI-2741 series 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-2741ML/SL/FL Fiber Optic Gigabit Media Converters
- 5V/1A Power Adapter
- 1 x EKI-2741ML/SL/FL 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-2741ML, EKI-2741SL & EKI-2741FL.

1st Edition

Sept. 2018

### Specifications

#### General

- **Compatibility:** IEEE 802.3, 802.3u, 802.3ab, 802.3x, IEEE 802.3z
- **LAN:** 10/100/1000Base-T (X), 1000Base-SX or 1000Base-LX
- **Transmission Distance:**
  - Ethernet: Up to 100 m
  - Fiber:
    - Multi-mode: Up to 550 m (EKI-2741ML)
    - Single-mode: Up to 10 km (EKI-2741SL)
  - SFP: N/A (EKI-2741FL)
- **Transmission Speed:** Up to 1000Mbps
- **Optical Fiber:**
  - Multi-Mode (EKI-2741ML)
    - Wavelength: 850nm
    - Tx Power: -4 / -9.5 dBm
    - Rx Sensitivity: -17 dBm
    - Parameters: 50/125 um, 62.5/125 um
  - Single-Mode (EKI-2741SL)
    - Wavelength: 1310nm
    - Tx Power: -3/-9.5 dBm
    - Rx Sensitivity: -20 dBm
    - Parameters: 9/125 um
- **Connectors:**
  - 1 x RJ45
  - 1 x SC type fiber connector (EKI-2741ML/SL) or
  - 1 x SFP type fiber connector (EKI-2741FL)
- **LED Indicators:**
  - EKI-2741ML/SL FIBER, LAN, PWR
  - EKI-2741FL Fiber: LINK/ACT
  - LAN: LINK/ACT
  - PWR
- **Operating Current:** 0.61A (EKI-2741ML/SL)  
0.52A (EKI-2741FL)
- **Power Adapter:** 5V DC, 1A external power adapter
- **Power Consumption:** 0.5 W (EKI-2701FL, w/o insert SFP transceiver)
- **Dimensions (W x H x D):**
  - EKI-2741FL: 60.88 x 23 x 75.58 mm  
(2.4" x 0.91" x 2.98")
  - EKI-2741ML/SL: 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:** 10 ~ 95% (non-condensing)
- **Safety:** LVD
- **EMC:** CE, FCC
- **Warranty:** 2 years

## Overview

### EKI-2741ML/SL



### EKI-2741FL (Front view)



### EKI-2741FL (Rear view)

