EKI-2541ML EKI-2541SL

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



Features

- 1 x 10/100 Mbps Ethernet port with RJ45 connector
- 1 x 100 Mbps Multi-mode/Single-mode SC type fiber port
- Full/Half duplex flow control and Auto-negotiation
- MDI/MDI-X auto-crossover
- Cost-Effective



Introduction

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.

Specifications

Communications

Standard 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 Fiber: Single-mode: up to 40 km

■ Transmission Speed Up to 100 Mbps

Optical Fiber

Multi-mode Wavelength: 1310 nm (EKI-2541ML) Tx Power: -14/-20 dBm Rx Sensitivity: -32 dBm

Parameters: 50/125 um.62.5/125 um

Single-mode Wavelength: 1310 nm (EKI-2541SL) Tx Power: -8/-15 dBm

Rx Sensitivity: -34 dBm Parameters: 9/125 um

Interface

• Connectors 1 x RJ45

1 x SC type fiber connector

• LED Indicators FIBER, LAN, PWR

Power

Operating Current 0.31APower Consumption 1.6 W

Power Adapter
5V DC, 1A external power adapter

Mechanism

Dimensions (W x H x D) 75 x 22.6 x 101.2 mm (2.95" x 0.89" x 3.98")

Enclosure IP30

Protection

Reverse Polarity Present

Environment

Operating Temperature 0 ~ 50°C (32 ~ 122°F)
Storage Temperature -40 ~ 70°C (-40 ~ 158°F)
Humidity 5 ~ 90% (non-condensing)
MTBF 1,776,203 hours

Certification

Safety LVD

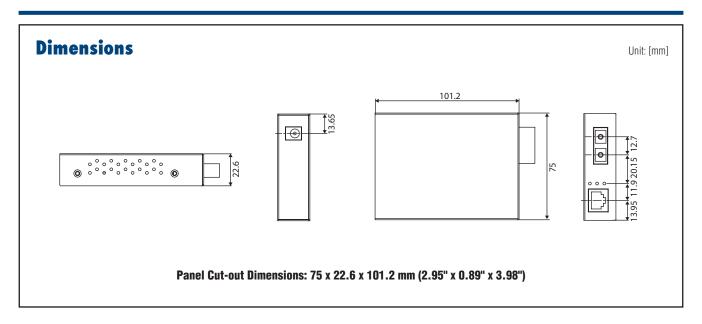
■ **EMI** EN 55024/EN 55032 Class A,

FCC Part 15 Subpart B Class A

■ **EMS** EN 61000-4-2

EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8

Freefall
Vibration
IEC 60068-2-32
IEC 60068-2-6



Ordering Information

Model Number	Description	Wavelength	Transmission Distance
EKI-2541ML-EU-AE	10/100T(X) to Fiber Converter, Multi-mode, SC connector (EU Adapter)	1310 nm	2 km
EKI-2541ML-UK-AE	10/100T(X) to Fiber Converter, Multi-mode, SC connector (UK Adapter)	1310 nm	2 km
EKI-2541ML-US-AE	10/100T(X) to Fiber Converter, Multi-mode, SC connector (US Adapter)	1310 nm	2 km
EKI-2541SL-EU-AE	10/100T(X) to Fiber Converter, Single-mode, SC connector (EU Adapter)	1310 nm	40 km
EKI-2541SL-UK-AE	10/100T(X) to Fiber Converter, Single-mode, SC connector (UK Adapter)	1310 nm	40 km
EKI-2541SL-US-AE	10/100T(X) to Fiber Converter, Single-mode, SC connector (US Adapter)	1310 nm	40 km