EKI-2541M/MI EKI-2541S/SI

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



Features

- Provides 1 x 10/100 Mbps Ethernet port with RJ45 connector
- Provides 1 x 100 Mbps Multi-mode/Single-mode SC type fiber port
- Provides internal jumper for Link Fault Pass-through (LFP) setting
- Supports full/half duplex flow control
- Supports store and forward transmission
- Supports Auto-Negotiation
- Supports MDI/MDI-X auto crossover
- Supports redundant 12-48 V_{DC} power input
- Provides flexible mounting: DIN-rail and Panel mount
- Supports wide operating temperatures from -40 to 75°C (EKI-2541MI/SI)











EKI-2541M/2541S 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, EKI-2541M/2541S is an ideal solution for "fiber to building" applications at central offices or local sites. EKI-2541M/2541S supports MDI/MDIX auto detection, so you don't need to use crossover wires. Furthermore, the EKI-2541M/2541S can work normally from -10 to 60°C and accepts a wide voltage range from 12 ~ 48 V_{DC}. Besides, it also provides 3,000 V_{DC} surge (EFT) protection against over-voltage, so it is suitable for harsh operating environments.

Link Fault Pass-Through (LFP)

EKI-2541M/2541S is an enhanced Ethernet to fiber-optic converter. Aside from its standard features, the versatile EKI-2541M/2541S also has the LFP (Link Fault Pass-through) feature. When one side of the link fails, the other side continues transmitting packets, and waiting for a response that never arrives from the disconnected side. Use the internal jumper to enable the LFP function, then EKI-2541M/2541S will force the link to shut down as soon as noticed that the other link has failed, giving the application software a chance to react to the situation.

Specifications

Communications

Standard LAN **Transmission Distance**

Transmission Speed **Optical Fiber**

Multi-mode (EKI-2541M/MI)

Single-mode (EKĬ-2541S/SI) IEEE 802.3, 802.3u, 802.3x 10/100Base-T (X), 100Base-FX Ethernet: Up to 100 m

Fiber: Multi-mode: up to 2 km Fiber: Single-mode: up to 30 km

Up to 100 Mbps

Wavelength: 1310 nm Tx Power: -14/-20 dBm Rx Sensitivity: -31 dBm Parameters: 50/125 um,62.5/125 um

Wavelength: 1310 nm

Tx Power: -8/-15 dBm Rx Sensitivity: -34 dBm Parameters: 9/125 um

Interface

Connectors 1 x RJ45

1 x SC type fiber connector

6-pin removable screw terminal (power)

LED Indicators P1, P2, P-Fail

Ethernet: 10/100 m, LNK/ACT Fiber: HDX/FDX, LNK/ACT Port/Power Alarm, LFP Fiber: HDX/FDX, Converter/Switch

Power

DIP Switch

Power Consumption

Max. 2.7 W

12 ~ 48 V_{DC}, redundant dual inputs Power Input

Mechanism

Dimensions (W x H x D) 37 x 140 x 95 mm (1.46" x 5.51" x 3.74")

Mounting

DIN-rail, Wall

Enclosure IP30, Metal shell with solid mounting

Protection

Power Reverse Overload current

Present Present

Environment

Operating Temperature -10 ~ 60°C (14 ~ 140°F) Wide Temp. model -40 ~ 75°C (-40 ~ 167°É) -40 ~ 85°C (-40 ~ 185°F) Storage Temperature **Operating Humidity** 5 ~ 95% (non-condensing) Storage Humidity 0 ~ 95% (non-condensing)

MTBF 577.175 hours

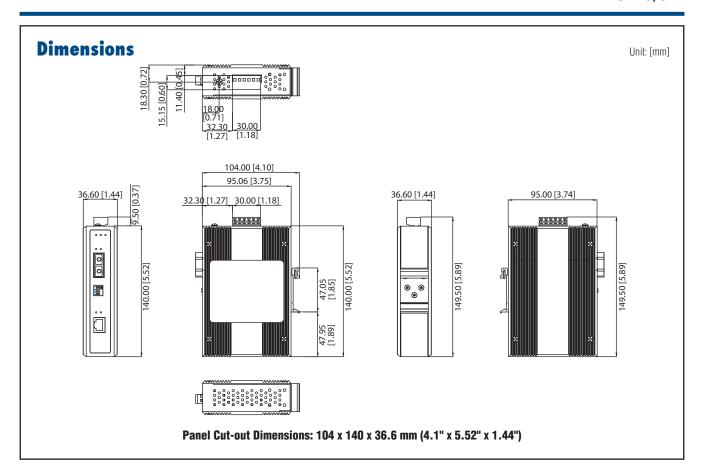
Certification

EMS

Safety UL 60950-1, CAN/CSA-C22.2 No.60950 FCC Part 15 Subpart B Class A, EN 55022 Class A EMI

EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8

Shock IEC 60068-2-27 IEC 60068-2-32 Freefall Vibration IEC 60068-2-6



Ordering Information

- EKI-2541MEKI-2541MIEKI-2541SEKI-2541SI

- Ethernet to Multi-mode Fiber Converter Ethernet to Multi-mode Fiber Converter w/ Wide Temp. Ethernet to Single-mode Fiber Converter
- Ethernet to Single-mode Fiber Converter w/ Wide Temp.

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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