EKI-2525MI/SI

4+1 100FX Port Unmanaged Industrial Ethernet Switch



Features

- Provides 4 x 10/100 Mbps Ethernet ports with RJ45 connector
- Provides 1 x 100 Mbps Multi-mode SC type fiber optic port (EKI-2525MI)
- Provides 1 x 100 Mbps Multi-mode ST type fiber optic port (EKI-2525MI-ST)
- Provides 1 x 100 Mbps Single-mode SC type fiber optic port (EKI-2525SI)
- Provides 1 x 100 Mbps Single-mode ST type fiber optic port (EKI-2525SI-ST)
- Supports full/half duplex flow control
- Supports MDI/MDI-X auto crossover
- Provides broadcast storm protection
- Provides redundant 12 ~ 48 V_{DC} power input
- Provides flexible mounting: DIN-rail and wall mount

Introduction

EKI-2525MI/2525SI are industrial-grade Ethernet switches that enable you to expand your industrial network quickly and cost-effectively. The EKI-2525MI/2525SI have four 10/100 Mbps Ethernet ports. Additionally the EKI-2525MI provides one multi-mode fiber-optic ports, while the EKI-2525SI provides one single-mode fiber-optic port. Using fiber-optics prevents noise from interfering with your system and supports high-speed (100 Mbps) and high-distance (up to 30 km) transmission.

EKI-2525MI/2525SI have industrial-grade designs, assuring high reliability and stability in harsh environments. This makes them a robust bridge between enterprise fiber-optic backbones and Ethernet devices. EKI-2525MI/2525SI includes a switch controller that can automatically sense transmission speeds. The RJ45 interface can also be autodetected, so MDI or MDI-X are automatically selected and a crossover cable is not required. All Ethernet ports have memory buffers that support the store and forward mechanism, assuring all data is transmitted properly.

Specifications

Communications

Standard IEEE 802.3, 802.3u, 802.3x
LAN 10/100Base-T (X), 100Base-FX

• Transmission Distance Ethernet: Up to 100 m

Multi-mode Fiber: Up to 2 km (EKI-2525MI) Single-mode Fiber: Up to 30 km (EKI-2525SI)

Transmission Speed Up to 100 Mbps

Optical Fiber

• Multi-Mode Wavelength: 1310nm (EKI-2525MI) Tx Power: -14/-20 dBm Rx Sensitivity: -31 dBm

Parameters: 50/125 um, 62.5/125 um

Single-Mode Wavelength: 1310 nm (EKI-2525SI) Tx Power: -8/-15 dBm Rx Sensitivity: -34 dBm Parameters: 9/125 um

Interface

Connectors
4 x RJ45 ports

1 x SC Type Fiber Connector (EKI-2525MI/SI) or 1 x ST Type Fiber Connector (EKI-2525MI/SI-ST) 6-pin removable screw terminal (Power & Relay)

10/100TX: Link/Activity, Duplex/Collision

LED Indicators
P1, P2, P-Fail

Power

Power Consumption Max. 5 W

■ **Power Input** 12 ~ 48 V_{DC}, Redundant Dual Inputs

• Fault Output 1 Relay Output

Mechanism

Dimensions (W x H x D) 30 x 140 x 95 mm (1.18" x 5.52" x 3.74")
Enclosure IP30, Metal Shell with Solid Mounting Kits

Mounting DIN-Rail, Wall

Protection

Reverse Polarity PresentOverload Current Present

Environment

Operating Temperature -40 ~ 75°C (-40 ~ 167°F)
Storage Temperature -40 ~ 85°C (-40 ~ 185°F)
Operating Humidity 10 ~ 95% (non-condensing)
Storage Humidity 10 ~ 95% (non-condensing)

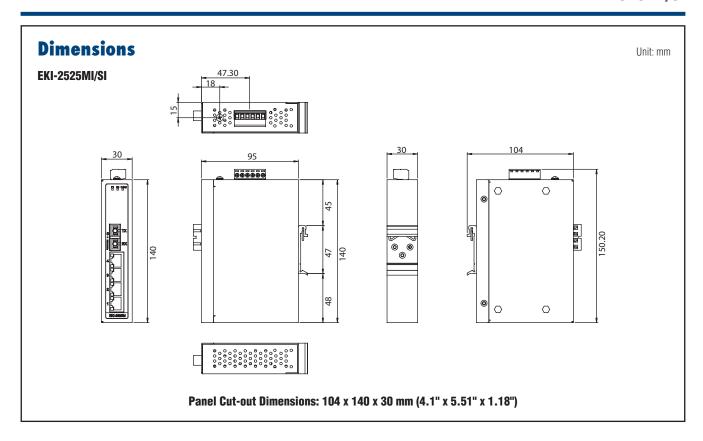
• **MTBF** 382,904 hours

Certification

■ EMI CE, FCC 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

Shock IEC60068-2-27
Freefall IEC60068-2-32
Vibration IEC60068-2-6



Ordering Information

EKI-2525MI-BE
EKI-2525MI-ST-BE
4-port Ethernet Switch w/ 1-port 100FX Multi-mode
4-port Ethernet Switch w/ 1-port 100FX Multi-mode

(ST type connector)

EKI-2525SI-AE
EKI-2525SI-ST-AE
4-port Ethernet Switch w/ 1-port 100FX Single-mode (ST type connector)