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# 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 MDI/MDI-X auto crossover
- 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** (EKI-2525MI) Wavelength: 1310nm
  Tx Power: -14/-20 dBm
  Rx Sensitivity: -31 dBm
  Parameters: 50/125 um, 62.5/125 um
- **Single-Mode** (EKI-2525SI) Wavelength: 1310 nm
  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)
- **LED Indicators** P1, P2, P-Fail
  10/100TX: Link/Activity, Duplex/Collision

### 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** Present
- **Overload 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

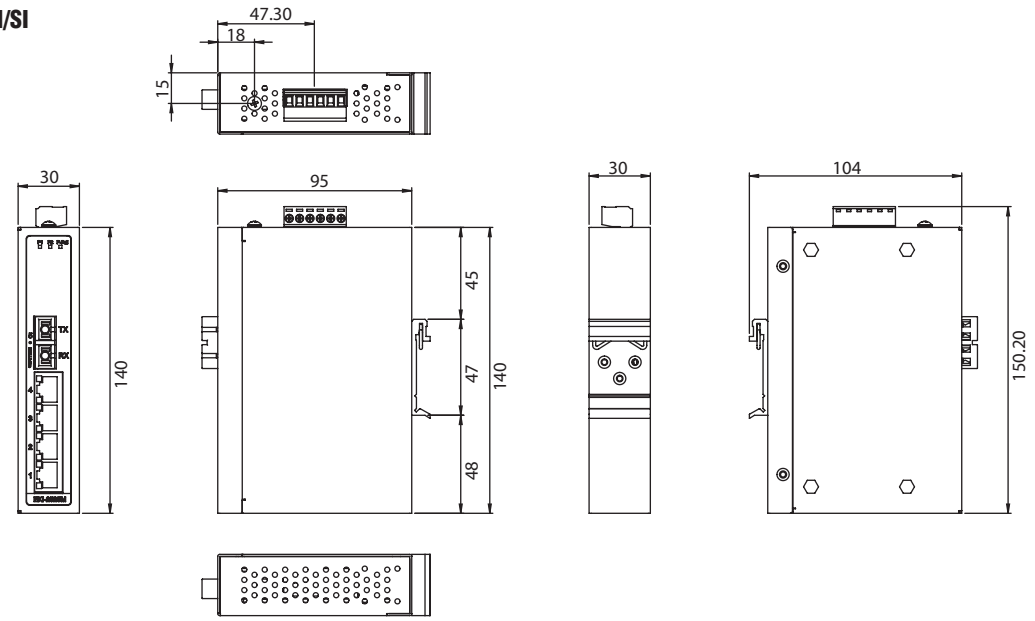


Last updated: 5-Mar-2020

## Dimensions

Unit: mm

**EKI-2525MI/SI**




**Panel Cut-out Dimensions: 104 x 140 x 30 mm (4.1" x 5.51" x 1.18")**

## Ordering Information

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

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