EKI-2525MI/SI

4+1 100FX Port Unmanaged Industrial Ethernet Switch

EKI-2525SI   EKI-2525MI

Features

- ③ Provides 4 x 10/100 Mbps Ethernet ports with RJ45 connector
- ③ Provides 1 x 100 Mbps Multi-mode SC type fiber optic port (EKI-2525MI)
- ③ Provides 1 x 100 Mbps Multi-mode ST type fiber optic port (EKI-2525MI-ST)
- ③ Provides 1 x 100 Mbps Single-mode SC type fiber optic port (EKI-2525SI)
- ③ Provides 1 x 100 Mbps Single-mode ST type fiber optic port (EKI-2525SI-ST)
- ③ Supports MDI/MDI-X auto crossover
- ③ Provides redundant 12 ~ 48 V_{DC} power input
- ③ 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

- ③ **Standard** IEEE 802.3, 802.3u, 802.3x
- ③ **LAN** 10/100Base-T (X), 100Base-FX
- ③ **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)
- ③ **Transmission Speed** Up to 100 Mbps

Optical Fiber

- ③ **Multi-Mode** Wavelength: 1310nm
  (EKI-2525MI) Tx Power: -14/-20 dBm
  Rx Sensitivity: -31 dBm
  Parameters: 50/125 um, 62.5/125 um
- ③ **Single-Mode** Wavelength: 1310 nm
  (EKI-2525SI) Tx Power: -8/-15 dBm
  Rx Sensitivity: -34 dBm
  Parameters: 9/125 um

Interface

- ③ **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)
- ③ **LED Indicators** P1, P2, P-Fail
  10/100TX: Link/Activity, Duplex/Collision

Power

- ③ **Power Consumption** Max. 5 W
- ③ **Power Input** 12 ~ 48 V_{DC}, Redundant Dual Inputs
- ③ **Fault Output** 1 Relay Output

Mechanism

- ③ **Dimensions (W x H x D)** 30 x 140 x 95 mm (1.18" x 5.52" x 3.74")
- ③ **Enclosure** IP30, Metal Shell with Solid Mounting Kits
- ③ **Mounting** DIN-Rail, Wall

Protection

- ③ **Reverse Polarity** Present
- ③ **Overload Current** Present

Environment

- ③ **Operating Temperature** -40 ~ 75°C (-40 ~ 167°F)
- ③ **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- ③ **Operating Humidity** 10 ~ 95% (non-condensing)
- ③ **Storage Humidity** 10 ~ 95% (non-condensing)
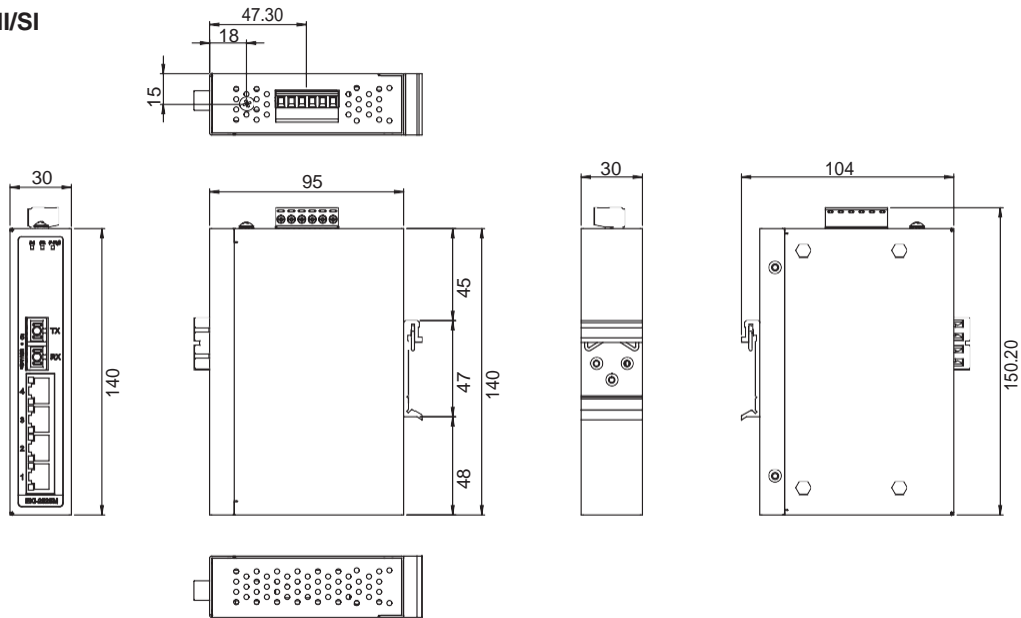- ③ **MTBF** 382,904 hours

Certification

- ③ **EMI** CE, FCC Class A
- ③ **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
- ③ **Shock** IEC60068-2-27
- ③ **Freefall** IEC60068-2-32
- ③ **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

③	**EKI-2525MI-BE**	4-port Ethernet Switch w/ 1-port 100FX Multi-mode
③	**EKI-2525MI-ST-BE**	4-port Ethernet Switch w/ 1-port 100FX Multi-mode (ST type connector)
③	**EKI-2525SI-AE**	4-port Ethernet Switch w/ 1-port 100FX Single-mode
③	**EKI-2525SI-ST-AE**	4-port Ethernet Switch w/ 1-port 100FX Single-mode (ST type connector)