EKI-2525M
EKI-2525S

4+1 100FX Port Multi-Mode Unmanaged Industrial Ethernet Switch

4+1 100FX Port Single Mode 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-2525M)
- Provides 1 x 100 Mbps Single-mode SC type fiber optic port (EKI-2525S)
- 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

EKI-2525S   EKI-2525M

Introduction

EKI-2525M/2525S are industrial-grade Ethernet switches that enable you to expand your industrial network fast and cost-effectively. The EKI-2525M/2525S have four 10/100 Mbps Ethernet ports, and additionally the EKI-2525M/2525S provides one multi-mode/single mode fiber-optic ports. Using fiber-optics, you can prevent noise from interfering with your system and supports high-speed (100 Mbps) and high-distance (up to 30 km) transmissions.

EKI-2525M/2525S have industrial-grade designs, assuring high reliability and stability in harsh environments, making it a robust bridge between enterprise fiber-optic backbones and Ethernet devices. EKI-2525M/2525S includes a switch controller that can automatically sense transmission speeds. The RJ45 interface can also be autodetected, so MDI or MDI-X is automatically selected and a crossover cable is not required. All the 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-2525M)
  Single-mode Fiber: Up to 30 km (EKI-2525S)
- **Transmission Speed** — Up to 100 Mbps
- **Optical Fiber**
  Multi-Mode — Wavelength:1310nm
  (EKI-2525M) — Parameters: 50/125 um, 62.5/125 um
  Single-Mode — Wavelength: 1310 nm
  (EKI-2525S) — Parameters: 9/125 um

Interface

- **Connectors** — 4 x RJ45 ports
  1 x SC type fiber connector (EKI-2525M/2525S) or
  6-pin removable screw terminal (Power & Relay)
- **LED Indicators** — P1, P2, P-Fail
  10/100TX: Link/Activity, Duplex/Collision

Power

- **Power Consumption** — 4.2W
- **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 5.51" x 3.73")
- **Enclosure** — IP30, Metal shell with solid mounting kits
- **Mounting** — DIN-rail, Wall

Protection

- **Reverse Polarity** — Present
- **Overload Current** — Present

Environment

- **Operating Temperature** — -10~60°C (14~140°)
- **Storage Temperature** — -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** — 10 ~ 95%
- **Storage Humidity** — 0 ~ 95% (non-condensing)
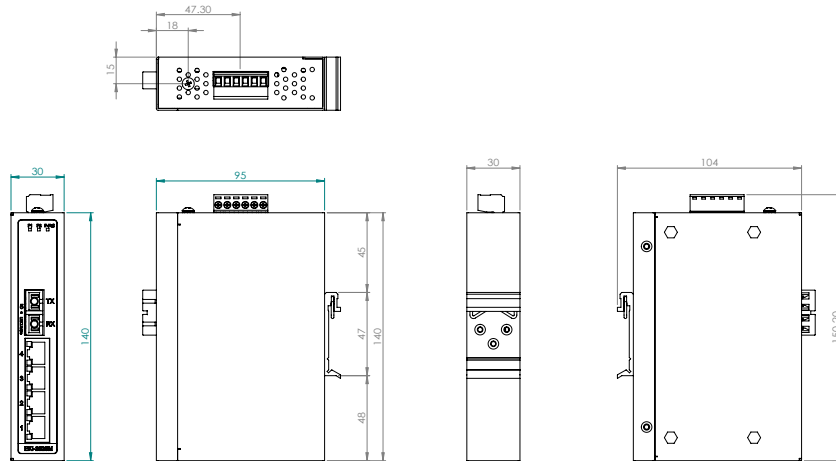- **MTBF** — 674,572 hours

Certification

- **Safety** — EKI-2525M: UL/cUL 60950 Class I, Division 2, Groups A, B, C and D
  EKI-2525S: UL/cUL 60950
- **EMI** — FCC Part 15 Subpart B Class A, EN 55022 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
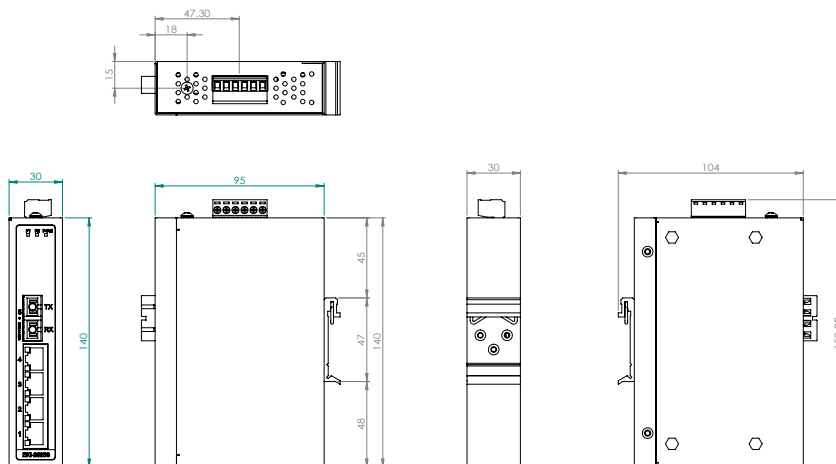- **Vibration** — IEC60068-2-6

Dimensions

Unit: [mm]

EKI-2525M

Panel Cut-out Dimensions: 30 x 140 x 95 mm (1.18" x 5.51" x 3.73")

EKI-2525S

Panel Cut-out Dimensions: 30 x 140 x 95 mm (1.18" x 5.51" x 3.73")

Ordering Information

- **EKI-2525M-BE**   5-port Ethernet Switch w/ 1-port 100FX Multi-mode
- **EKI-2525S-AE**   5-port Ethernet Switch w/ 1-port 100FX Single-mode