EKI-2525M/S

4+1 100FX Port Unmanaged Industrial Ethernet Switch

EKI-2525S EKI-2525M

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 Multi-mode ST type fiber optic port (EKI-2525M-ST)
- 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

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 provides one multi-mode fiber-optic ports, while the EKI-2525S provide one 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)   Tx Power: -14/-20 dBm
                        Rx Sensitivity: -31 dBm
                        Parameters: 50/125 um, 62.5/125 um
- **Single-Mode**   Wavelength: 1310 nm
  (EKI-2525S)   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-2525M/S) or
  1 x ST type fiber connector (EKI-2525M-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
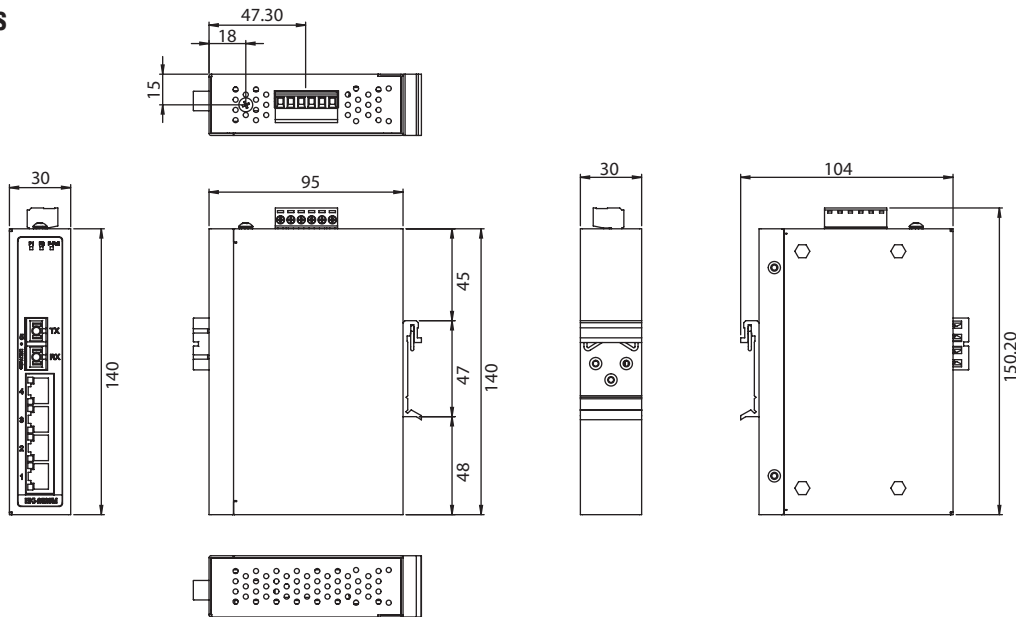
Environment

- **Operating Temperature** -10 ~ 60°C (14 ~ 140°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

EKI-2525M/S

Dimensions

Unit: mm

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47.30
18
15
30
95
45
47
48
140
30
104
140
150.20

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

Certification
- **Safety** — EKI-2525M-ST/EKI-2525S: UL/cUL 60950
  EKI-2525M: UL/cUL 60950 Class I, Division 2, Groups A, B, C and D
- **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

Ordering Information
- **EKI-2525M-BE** — 4-port Ethernet Switch w/ 1-port 100FX Multi-mode
- **EKI-2525M-ST-BE** — 4-port Ethernet Switch w/ 1-port 100FX Multi-mode (ST type connector)
- **EKI-2525S-AE** — 4-port Ethernet Switch w/ 1-port 100FX Single-mode