EKI-2525M
EKI-2526M/S

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

4+2 100FX Port Unmanaged Industrial Ethernet Switch

Features

- Provides 4 x 10/100 Mbps Ethernet ports with RJ-45 connector
- Provides 1 x 100 Mbps Multi-mode SC type fiber optic port (EKI-2525M)
- Provides 2 x 100 Mbps Multi-mode SC type fiber optic port (EKI-2526M)
- Provides 2 x 100 Mbps Single-mode SC type fiber optic port (EKI-2526S)
- Supports full/half duplex flow control
- Supports MDI/MDI-X auto crossover
- Provides 3,000 V_{DC} surge (EFT) protection
- Provides 4,000 V_{DC} Ethernet ESD protection
- Provides broadcast storm protection
- Provides redundant 12 ~ 48 V_{DC} power input
- Provides flexible mounting: DIN-rail, panel mounting

Introduction

EKI-2525M/2526M/2526S are industrial-grade Ethernet switches that enable you to expand your industrial network fast and cost-effectively. The EKI-2525M/2526M/2526S have four 10/100 Mbps Ethernet ports, and additionally the EKI-2525M/2526M provides one or two multi-mode fiber-optic ports, while the EKI-2526S provides two 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/2526M/2526S 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/2526M/2526S includes a switch controller that can automatically sense transmission speeds. The RJ-45 interface can also be auto-detected, 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/2526M)
  Single-mode Fiber: Up to 30 km (EKI-2526S)
- **Transmission Speed** Up to 100 Mbps
- **Optical Fiber**
  Multi-Mode (EKI-2525M/EKI-2526M) Wavelength: 1310nm
  Tx Power: -14/-20dBm
  Rx Sensitivity: -31dBm
  Parameters: 50/125um, 62.5/125um
  Single-Mode (EKI-2526S) Wavelength: 1310nm
  Tx Power: -8/-15dBm
  Rx Sensitivity: -34dBm
  Parameters: 9/125um

Interface

- **Connectors** 4 x RJ-45 ports
  1 x SC type fiber connector (EKI-2525M) or
  2 x SC type fiber connector (EKI-2526M/S)
  6-pin removable screw terminal (Power & Relay)
- **LED Indicators** P1, P2, P-Fail
  10/100T(X): Link/Activity, Duplex/Collision

Power

- **Power Consumption** EKI-2525M: Max. 5 W
  EKI-2526M: Max. 6.41 W
  EKI-2526S: Max. 6.45 W
- **Power Input** 12 ~ 48 V_{DC}, redundant dual inputs
- **Fault Output** 1 Relay Output

Mechanism

- **Dimensions (W x H x D)** 37 x 140 x 95 mm
- **Enclosure** IP30, Metal shell with solid mounting kits
- **Mounting** DIN-rail, Wall

Protection

- **ESD (Ethernet)** 4,000 V_{DC}
- **Surge (EFT for power)** 3,000 V_{DC}
- **Reverse Polarity** Present
- **Overload** EKI-2525M: 0.9 A @ 12 V_{DC} (Re-settable Fuse)
  EKI-2526M/S: 1.6 A @ 12 V_{DC} (Re-settable Fuse)

Environment

- **Operating Temperature** -10 ~ 60° C (14 ~ 140° F)
- **Storage Temperature** -40 ~ 85° C (-40 ~ 185° F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 610,453 hrs

Certifications

- **Safety** UL 60950-1, CAN/CSA-C22.2 No.60950
- **EMC** U.S.A.: FCC Part 15 CISPR 22
  EU: EN55011, EN61000-6-4, EN55022 Class A, EN61000-3-2/3, EN55024
  IEC61000-4-2/3/4/5/6/8, EN61000-6-2/4
- **Shock** IEC60068-2-27
- **Freefall** IEC60068-2-32
- **Vibration** IEC60068-2-6

Ordering Information

- **EKI-2525M** 5-port Ethernet Switch w/ 1-port 100FX MM
- **EKI-2526M** 6-port Ethernet Switch w/ 2-port 100FX MM
- **EKI-2526S** 6-port Ethernet Switch w/ 2-port 100FX SM