EKI-2525M
EKI-2526M/S

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

4+2 100FX Port Unmanaged Industrial Ethernet Switch

EKI-2525M   EKI-2526M/S

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 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**   Wavelength: 1310nm
  Multi-Mode
  (EKI-2525M/EKI-2526M)   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

- **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