EKI-2525M

NEW

Features

- Provides 4 x 10/100 Mbps Ethernet ports with RJ45 connector
- Provides 1 x 100 Mbps multi-mode SC type fiber port
- Supports full/half duplex flow control
- Supports MDI/MDI-X auto crossover
- Provides surge (EFT) protection (3,000 VDC)
- Provides 4,000 VDC Ethernet ESD protection
- Provides broadcast storm protection
- Embedded with a switch controller, supports auto-negotiation
- Embedded with a memory buffer, supports store-and-forward transmission
- Supports redundant +12 ~ 48 VDC power input
- Provides flexible mounting: DIN-rail, panel mount
- Supports operating temperatures from -10 ~ 60° C

CE FCC (UL)

Introduction

The EKI-2525M is an industrial-grade Ethernet switch that enables the expansion of networks fast and cost-effectively. The EKI-2525M has 4 x 10/100 Mbps Ethernet ports, and additionally provides one multi-mode fiber-optic port. Using fiber-optics, noise can be prevented from interfering with systems, and high-speed (100 Mbps) & long distance (up to 2 km) transmissions are supported. EKI-2525M have industrial-grade designs that assure high-reliability and stability in harsh environments, making it a robust bridge between enterprise fiber backbones and Ethernet devices.

EKI-2525M includes a switch controller that can automatically sense transmission speeds. The RJ45 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 that all data can be transmitted properly.

Specifications

Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x
- **LAN** 10/100Base-TX, 100Base-FX
- **Transmission Distance** Ethernet: Up to 100 m
  Multi-mode Fiber: Up to 2 km
- **Transmission Speed** Up to 100 Mbps

Interface

- **Connectors** 4 x RJ-45
  1 x SC type fiber connector
  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** 2 x Unregulated 12 ~ 48 V_{DC}
- **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, Panel

Protection

- **ESD (Ethernet)** 4,000 V_{DC}
- **Surge (EFT for power)** 3,000 V_{DC}
- **Reverse Polarity** Present
- **Overload** 1.8A/60V Resetable Fuse

Environment

- **Operating Temperature** -10~60° C (14~140° F)
  Wide temp. model: -40~75° C(-40~167° F)
- **Storage Temperature** -40~85° C (-40~185° F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)
- **MTBF** 676,489 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
      IEC61000-4-2/3/4/5/6/8/11/12
    EN61000-6-2
- **Shock** IEC60068-2-27
- **Freefall** IEC60068-2-32
- **Vibration** IEC60068-2-6

Ordering Information

- **EKI-2525M** 5-port Industrial Unmanaged Ethernet Switch with
  1 x Multi-mode SC Type Fiber Optic Port