

# EKI-2525M EKI-2526M/S

## 4+1 100FX Port Multi-Mode/Single Mode Unmanaged Industrial Ethernet Switch 4+2 100FX Port 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 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<sub>DC</sub> power input
- Provides flexible mounting: DIN-rail and Wall mount

### 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 2526S provide one or two single-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/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 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/2526M)  
Single-mode Fiber: Up to 30 km (EKI-2526S)
- **Transmission Speed** Up to 100 Mbps
- **Optical Fiber** Wavelength: 1310 nm
  - Multi-Mode (EKI-2525M/EKI-2526M)
    - Tx Power: -14/-20 dBm
    - Rx Sensitivity: -31 dBm
    - Parameters: 50/125  $\mu$ m, 62.5/125  $\mu$ m
  - Single-Mode (EKI-2526S)
    - Wavelength: 1310 nm
    - Tx Power: -8/-15 dBm
    - Rx Sensitivity: -34 dBm
    - Parameters: 9/125  $\mu$ m

#### Interface

- **Connectors** 4 x RJ45 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  
10/100TX: 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<sub>DC</sub>, redundant dual inputs
- **Fault Output** 1 Relay Output

#### Mechanism

- **Dimensions (W x H x D)** 37 x 140 x 95 mm (1.46" x 5.51" 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** EKI-2525M/2526M/2526S: -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 hours

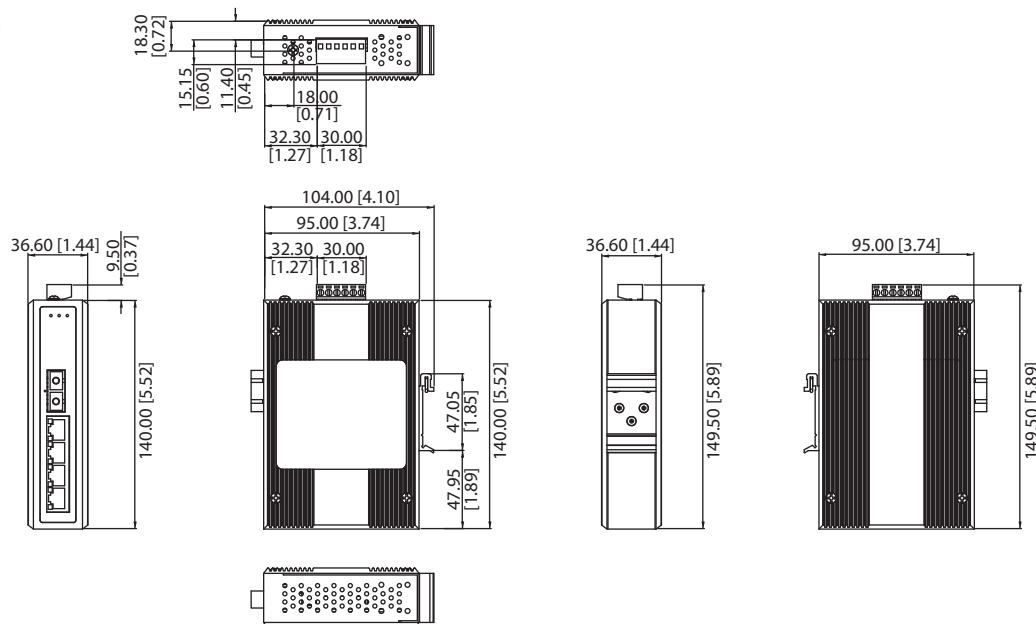
#### Certification

- **Safety** UL 60950-1, CAN/CSA-C22.2 No.60950, Class I, Division 2
- **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

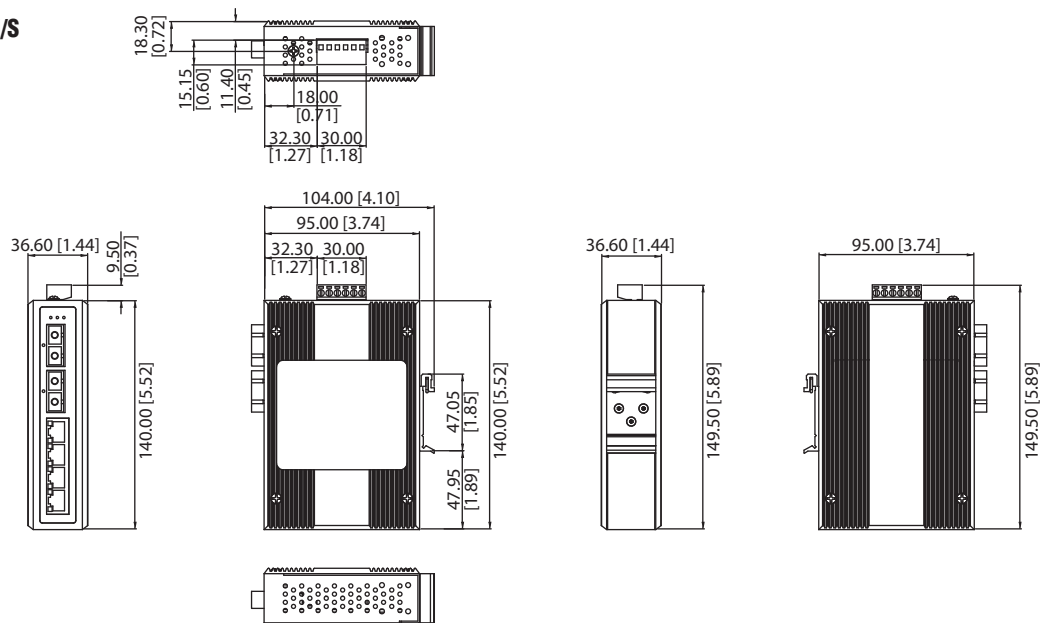
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### EKI-2525M



**Panel Cut-out Dimensions: 104 x 140 x 36.6 mm (4.1" x 5.52" x 1.44")**

### EKI-2526M/S



**Panel Cut-out Dimensions: 104 x 140 x 36.6 mm (4.1" x 5.52" x 1.44")**

## Ordering Information

- |             |  |                |  |
|-------------|--|----------------|--|
| ▪ EKI-2525M | 5-port Ethernet Switch w/ 1-port 100FX Multi-mode  | ▪ EKI-2526S-ST | 4-port Ethernet Switch w/ 2-port 100FX Single-mode (ST type connector) |
| ▪ EKI-2526M | 4-port Ethernet Switch w/ 2-port 100FX Multi-mode  | ▪ EKI-2526M-ST | 4-port Ethernet Switch w/ 2-port 100FX Multi-mode (ST type connector)  |
| ▪ EKI-2526S | 4-port Ethernet Switch w/ 2-port 100FX Single-mode |                |  |