

# 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 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 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 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: 1310nm
  - Multi-Mode (EKI-2525M/EKI-2526M) Tx Power: -14/-20 dBm  
Rx Sensitivity: -31 dBm  
Parameters: 50/125 um, 62.5/125 um
  - Single-Mode (EKI-2526S) Wavelength: 1310 nm  
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) 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** -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

## Ordering Information

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