

# EKI-2525SPI

## 4+1 100FX Port Single-Mode Industrial PoE Switch with Wide Temperature

NEW



### Features

- Provides 1 x 100FX Ethernet port plus 4 x PoE injector ports
- Supports 10/100Mbps auto negotiation
- Provides broadcast storm protection
- Supports Ethernet ESD protection
- Provides surge (EFT) protection 3,000 V<sub>DC</sub> for power line
- Provides Slim size, DIN-rail/Wallmount with IP30 metal mechanism
- Supports Redundant 48 V<sub>DC</sub> power input and P-Fail relay
- Supports wide operating temperatures (-40 to 75° C)

### Introduction

The EKI-2525SPI is a 4+1 100FX port unmanaged PoE (Power-over-Ethernet) Industrial Ethernet switch that supports 4 PoE ports which are classified as power source equipment (PSE), and additionally provides one single-mode fiber-optic port. This PoE device makes centralized power supply come true and provides up to 15.4 watts of power per port. Advantech EKI PoE devices can be used to power IEEE802.3af compliant powered devices (PD) by Ethernet cable and eliminates the need for additional power wiring. 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. Advantech EKI PoE devices come equipped with all the standard features of the EKI family. Furthermore, it offers a 48 V<sub>DC</sub> redundant power input design, and is secured with a double protection mechanism; Power Polarity Reverse Protect and an Overload Current Resettable Fuse. Advantech EKI PoE devices come with compact metal housing that rates IP30 to help against from dusty industrial environments.

### Specifications

#### Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3af
- **LAN** 10/100Base-T(X), 100Base-FX
- **Transmission Distance** Ethernet: Up to 100 m  
Single-mode Fiber-optic: Up to 30 km
- **Transmission Speed** Up to 100 Mbps
- **Fiber-optic** Wavelength: 1310nm  
Tx Power: -8/-15dBm  
Rx Sensitivity: -34dBm  
Parameters: 9/125um

#### Interface

- **Connectors** PoE Ports: 4 (Ports 1 ~ 4)  
1 x SC type fiber-optic connector  
6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail  
10/100TX: Link/Active, Duplex/Collision  
Fiber: Link/Active  
PoE: Feeding Power

#### Power

- **Power Consumption** 4.6 W (without PoE), 58 W (Full load PoE)
- **Power Input** 48 V<sub>DC</sub> redundant dual inputs
- **Power Output** 15.4 W at 48V (per PoE port)
- **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<sub>DC</sub>
- **Surge (EFT for power)** 3,000 V<sub>DC</sub>
- **Reverse Polarity** Present
- **Overload** 3A @ 48 V<sub>DC</sub>

#### Environment

- **Operating Temperature** -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** 208,900 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
- **Shock** IEC60068-2-27
- **Freefall** IEC60068-2-32
- **Vibration** IEC60068-2-6

### Ordering Information

- **EKI-2525SPI** 4+1 100FX SM Industrial PoE Switch w/ Wide Temp