

# EKI-2528PAI

## 8-port Industrial PoE Switch with 24/48 V<sub>DC</sub> Power Input and Wide Temperature

### Preliminary



### Features

- Provides 8 Fast Ethernet ports with 4 PoE ports with injector function
- Supports redundant 24/48 V<sub>DC</sub> power input and P-Fail relay
- 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
- 56Kbytes Packet Buffer and 2K MAC Address Table
- Provides Slim size, DIN-rail/Wallmount with IP30 metal mechanism
- Supports wide operating temperatures (-40 ~ 75° C)

### Introduction

The EKI-2528PAI is a 8-port unmanaged PoE (Power-over-Ethernet) Industrial Ethernet switch that supports 4 PoE ports which are classified as power source equipment (PSE). These PoE devices make centralized power supply possible and provide up to 15.4 watts of power per port. Advantech EKI PoE devices can be used to power IEEE802.3af compliant powered devices (PD) through Ethernet cable and eliminate the need for additional power wiring. Advantech EKI PoE devices come equipped with all the standard features of the EKI family. Furthermore, they offer a 24/48 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)
- **Transmission Distance** Up to 100 m
- **Transmission Speed** Up to 100 Mbps

#### Interface

- **Connectors** PoE ports: 4 (Port1 ~ Port 4)  
Ethernet ports: 4 (Port 5 ~ Port 8)  
6-pin removable screw terminal (power and relay/relay)
- **LED Indicators** System: P1, P2, P-Fail  
Per Port: Link/Activity, Speed  
PoE (Port 1 to Port 4)

#### Power

- **Power Input** 24/48 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)** 48.6 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

#### 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)

#### Certifications

- **Safety** UL 508
- **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-2528PAI** 8-port PoE Switch w/ 24/48 V<sub>DC</sub> and Wide Temp