

# EKI-2705G-1GPI

# EKI-2705E-1GPI

**4GE PoE + 1GE Unmanaged Industrial Switch**

**4FE PoE + 1GE Unmanaged Industrial Switch**

**Preliminary**



EKI-2705G-1GPI

EKI-2705E-1GPI



## Features

- Supports 10/100/1000Mbps auto negotiation (EKI-2705G)
- Supports jumbo frame transmission up to 9k bytes
- DIN-rail with IP30 metal mechanism
- Redundant 24 ~ 48 V<sub>DC</sub> power input
- 4 x IEEE 802.3 af/at PoE /PoE+ ports & 1 x Giga (Fast Ethernet) Copper ports

## Introduction

The EKI-2705 series supports 24 ~ 48V<sub>DC</sub> redundant power input and is secured with a double protection mechanism: power polarity reverse protection and an overload current fuse. The EKI-2705 series supports up to 4-port IEEE 802.3 af/at PoE /PoE+ ports. Each port of EKI-2705 has two LED indicators to show the link status transmission speed. It also provides a relay output for an event alarm. In the event of a power failure, the built-in LED will activate the alarm to notify, administrators. Engineers can simply verify the hardware status by checking the LED to make troubleshooting easily and fast. EKI-2705 comes with a compact metal housing rated at IP30 to protect against dusty industrial environments.

## Specifications

### Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3ab, 802.3z
- **LAN** EKI-2705G-1GPI: 5 x 10/100/1000Mbps (RJ-45)  
EKI-2705E-1GPI: 4 x 10/100Mbps (RJ-45) + 1 x 10/100/1000Mbps(RJ-45)
- **Transmission Distance** Ethernet: Up to 100 m (4-wire Cat.5e, Cat.6 RJ45 cable)
- **Transmission Speed** Gigabit Copper: 10/100/(1000) Mbps, Auto-Negotiation

### Interface

- **Connectors** 5 x RJ-45  
6-pin removable screw terminal (power & relay)
- **LED Indicators** P1, P2, P-Fail  
Link / Speed / Activity/ POE

### Power

- **Power Consumption** Max. 2 W
- **Power Input** 24 ~ 48 V<sub>DC</sub>
- **Input current** 1.92A @ 48 V<sub>DC</sub>  
4.12A @ 24 V<sub>DC</sub>
- **Fault Output** 1 Relay Output, 1 A @ 24 V<sub>DC</sub>
- **Power Budget** 60W @ 75°C  
90W @ 60°C

### Mechanism

- **Dimensions (W x H x D)** 30 x 140 x 95 mm (1.18" x 5.51" x 3.74")
- **Enclosure** IP30, metal shell with solid mounting kits
- **Mounting** DIN-rail, Wall

### Protection

- **Power Reverse** Present
- **Overload current** Present

### Environment

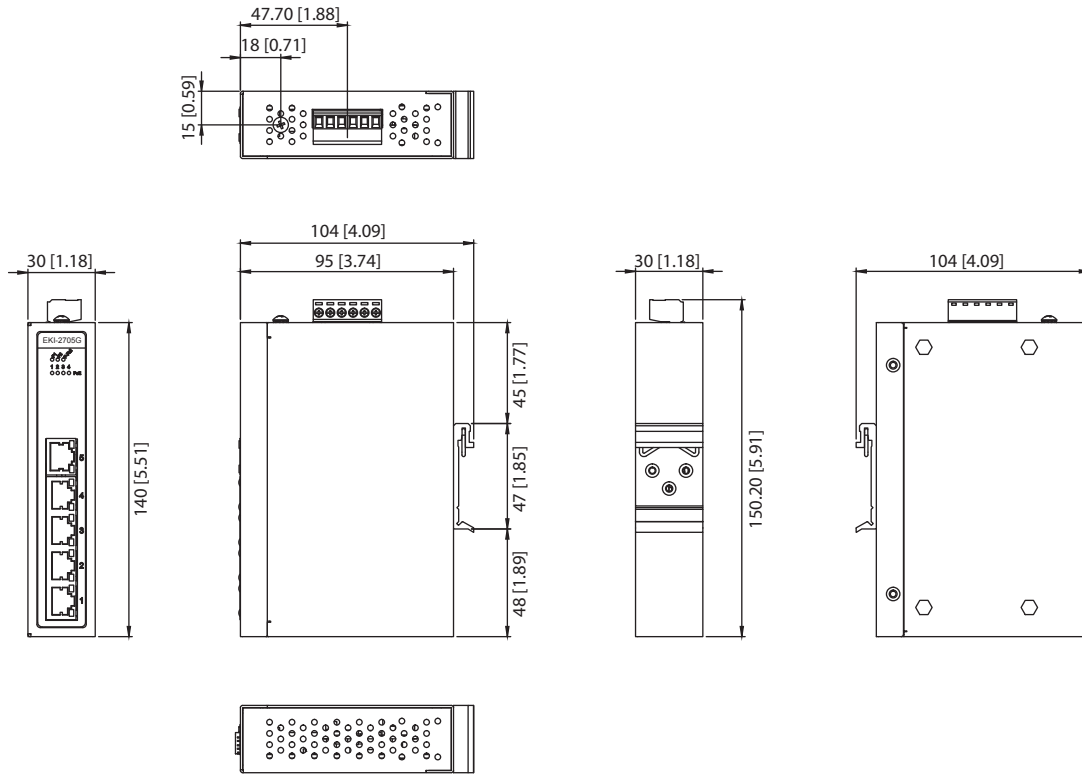
- **Operating Temperature** -40 ~ 75 °C (-40 ~ 167 °F)
- **Storage Temperature** -40 ~ 85 °C (-40 ~ 185 °F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 95% (non-condensing)
- **MTBF** 1,697,086 hours

### Certification

- **Safety** UL 62368, e-Mark(pending)
- **EMI** CE, FCC 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** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Patent** <http://www.advantech.com/legal/patent>

## Dimensions

Unit: mm [inch]



## Ordering Information

- **EKI-2705G-1GPI-A** 4GE PoE + 1GE Unmanaged Industrial Switch w/Wide temp.
- **EKI-2705E-1GPI-A** 4FE PoE + 1GE Unmanaged Industrial Switch w/Wide temp.