

# EKI-2708G-PI

# EKI-2710G-2FPI

## 8GE Port Gigabit Unmanaged Industrial PoE Ethernet Switch

## 8GE + 2G SFP Port Gigabit Unmanaged Industrial PoE Ethernet Switch



### Features

- 8 x Gigabit Ethernet ports or plus 2 Gigabit SFP ports
- Support 8 x IEEE 802.3at/af PoE ports for PD demands
- Up to 30W output per PoE port
- Supports jumbo frame transmission up to 9k bytes
- DIN-rail with IP30 metal mechanism
- 12 ~ 48 V<sub>DC</sub> redundant dual power input and 1 relay output
- Wide operating temperature range of -40 ~ 75°C
- Supports EMC Level 4 protection for extreme outdoor environments
- Supports LAN surge protection up to ±6 kV
- Equipped with a pull-down DIN rail mounting kit for easy installation across various DIN rail dimensions

### Introduction

The EKI-2708G and EKI-2710G PoE switch are unmanaged Ethernet switches supporting 8 ports PoE+ (Power over Ethernet) and compliant with IEEE 802.3at/af standards. Provides up to 30 watts of power per port and fulfill the power budget of max. 240 watts on system with the power input from 12~48V<sub>DC</sub>. The switch provides a relay output for an event alarm which activate the alarm to notify administrators. Robust design for harsh environment, din rail mounting and fast startup with plug and work.

The EKI-2708G and EKI-2710G support IEEE 802.3/802.3u/802.3z/802.3ab/802.3x with 10/100/1000 Mbps, full/half-duplex, auto-negotiation and MDI/MDI-X auto-sensing to provide an economical solution for your industrial Ethernet network.

### Specifications

#### Interfaces / Communications

- **I/O Port**
  - EKI-2708G-PI:
    - 8 x 10/100/1000BASE-T/TX RJ-45
  - EKI-2710G-2FPI:
    - 8 x 10/100/1000BASE-T/TX RJ-45
    - 2 x SFP (mini-GBIC) 100/1000Mbps port
- **Standards**
  - Auto-Negotiation, Full/Half Duplex Mode
  - Auto MDI/MDI-X Connection
  - IEEE 802.3 for 10BaseT
  - IEEE 802.3u for 100BaseT(X)/FX
  - IEEE 802.3z for 1000BASE-X
  - IEEE 802.3ab 1000BaseT(X)
  - IEEE 802.3x for Flow Control
- **PoE**
  - Port 1 ~ Port 8: IEEE 802.3at/af
- **Power Connector**
  - 6-pin screw Terminal Block (including relay)

#### Physical

- **Enclosure**
  - Metal Shell
- **Protection Class**
  - IP 30
- **Installation**
  - DIN-Rail, Wall-mount (optional)
- **Dimensions (W x H x D)**
  - 54 x 140 x 120mm (2.126 x 5.511 x 4.724 inch)
- **Weight**
  - 1.1kg

#### LED Indicators

- **System LED**
  - PWR1, PWR2, ALM
- **Port LED**
  - Link / Speed / Activity / PoE

#### Environment

- **Operating Temperature**
  - 40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature**
  - 40 ~ 85°C (-40 ~ 185°F)
- **Ambient Relative Humidity**
  - 5 ~ 95% (non-condensing)
- **Overload Current Protection**
  - Present
- **Reverse Polarity Protection**
  - Present

#### Power

- **Power Consumption (system)**
  - Max. 5.28 W (system)
- **Power Input**
  - 12~48V<sub>DC</sub>
  - redundant dual power input
- **Power Budget**
  - 240W @ 48V<sub>DC</sub>
  - 120W @ 24V<sub>DC</sub>
  - 80W @ 12V<sub>DC</sub>
- **Fault Output**
  - 1 Relay Output, 1A@24V<sub>DC</sub>

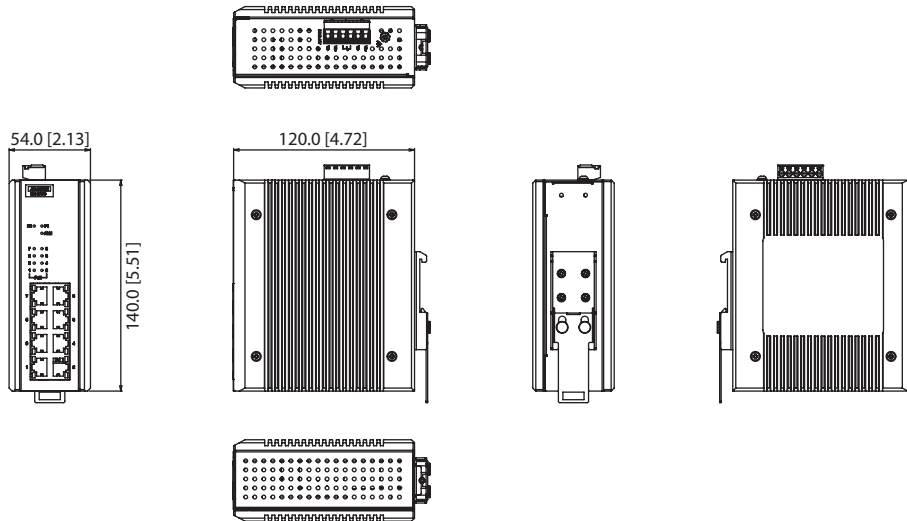
#### Certification (Preliminary)

- **Safety**
  - LVD EN62368-1
- **EMI**
  - CE, CISPR 32, FCC Part 15B Class A, e-Mark
- **EMS**
  - IEC 61000-4-2 ESD Level 4
  - IEC 61000-4-3 RS
  - IEC 61000-4-4 EFT Level 4
  - IEC 61000-4-5 Surge (Level 4, LAN Surge ±6 kV)
  - IEC 61000-4-6 CS
  - IEC 61000-4-8 PFM
- **EMC**
  - EN 55032
  - EN 55035
  - EN 61000-6-2
  - EN 61000-6-4
  - IEC 60068-2-27
  - IEC 60068-2-32
  - IEC 60068-2-6
  - NEMA TS-2 compliant
  - EN 50121-4 compliant
- **Shock**
- **Freefall**
- **Vibration**
- **Traffic control**
- **Railway Trackside**

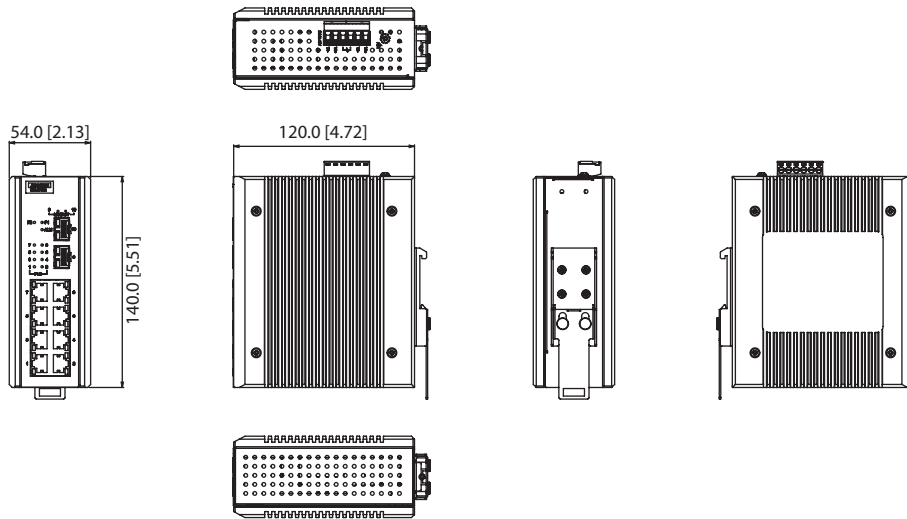
## Dimensions

Unit: mm [inch]

### EKI-2708G-PI



### EKI-2710G-2FPI



**Panel Cut-out Dimensions (W x H x D): 54 x 140 x 120mm (2.126 x 5.511 x 4.724 inch)**

### Switch Properties

- **Switch Capacity** EKI-2708G-PI: 16Gbps  
EKI-2710G-2FPI: 20Gbps
- **Transmission Rate** EKI-2708G-PI: 11.9Mpps  
EKI-2710G-2FPI: 14.8Mpps
- **MAC Table Size** 4K
- **Jumbo Frame** 9K

### Warranty

- **Warranty Period** 5 years

## Ordering Information

- **EKI-2708G-PI-A** 8GE Port Unmanaged PoE Ethernet Switch w/ Wide Temp.
- **EKI-2710G-2FPI-A** 8GE + 2G SFP Port Unmanaged PoE Ethernet Switch w/Wide Temp.