

# EKI-2712G-4FPI

## 8G+4SFP Port Gigabit Unmanaged Redundant Industrial PoE Switch



### Features

- 8 x IEEE 802.3 af/at PoE Gigabit ports + 4 x SFP ports
- SFP socket for easy and flexible fiber expansion
- NEMA TS2 for traffic control
- EN50121-4 approval for railway trackside deployment
- -40 ~ 75°C wide-range operating temperature
- Dual 48 V<sub>DC</sub> power input and 1 x relay output

### Introduction

EKI-2712G-4FPI supports 8 Gigabit IEEE 802.3 af/at PoE ports and 4 SFP (mini-GBIC) ports. They can provide up to 30 watts per port to fulfill high power consumption PD (Power Device). The switch also features a wide -40° to 75°C operating temperature and NEMA TS2 rating, making the switch an ideal solution for use in traffic applications and have successfully passed the EN50121-4 European railway standard requirements of emission and immunity for railway platforms and trackside deployment.

### Specifications

#### Interface

- **I/O Port** 8 x 10/100/1000BASE-T/TX RJ-45  
4 x SFP (mini-GBIC) port
- **Debug Port** RS-232 (RJ45)
- **Power Connector** 6-pin screw Terminal Block (including relay)

#### Physical

- **Enclosure** Metal Shell
- **Protection Class** IP 30
- **Installation** DIN-Rail
- **Dimensions (W x H x D)** 74 x 152 x 105 mm (2.91" x 5.98" x 4.13")

#### LED Display

- **System LED** PWR1, PWR2, SYS, and Alarm
- **Port LED** Link / Speed / Activity

#### Environment

- **Operating Temperature** -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature** -40 ~ 85°C
- **Ambient Relative Humidity** 10 ~ 95% (non-condensing)
- **Humidity** 10 ~ 95% (non-condensing)

#### Power

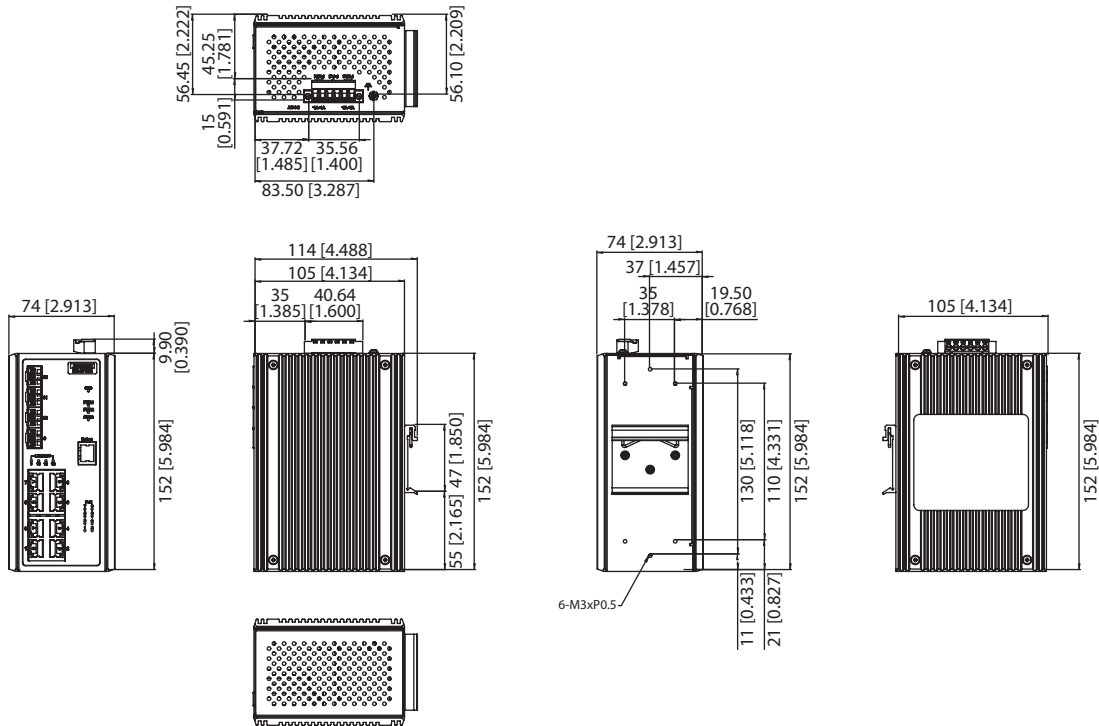
- **Power Consumption** 12.1W @ 48V<sub>DC</sub> (System)
- **Power Input** 48 V<sub>DC</sub> (46 to 57 V<sub>DC</sub>),  
53 -57 V<sub>DC</sub> is recommended for 802.3at,  
redundant dual power input
- **Power Budget** 240W
- **Fault Output** 1 Relay Output

#### Certification

- **EMI** CE, FCC Class A
- **Safety** UL61010
- **EMC** EN 61000-4-2  
EN 61000-4-3  
EN 61000-4-4  
EN 61000-4-5  
EN 61000-4-6  
EN 61000-4-8  
EN50121-4
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Traffic control** NEMA TS2
- **Patent** <http://www.advantech.com/legal/patent>

## Dimensions

Unit: mm [inch]



Panel Cut-out Dimensions: 105 x 152 x 74 (4.134" x 5.98" x 2.913")

## Ordering Information

- EKI-2712G-4FPI-AE 8GE + 4SFP Port Unmanaged PoE Ethernet Switch w/Wide Temp