

# EKI-2701MPI-5G

## Hardened multi-speed Mega PoE Injector



CE FCC 

### Features

- Supports multiple data rates: 10M/100M/1G/2.5G/5G for data input and PoE output
- Compliant with IEEE 802.3af/at/bt standards, offering wide compatibility, for seamless integration with PoE networks.
- Power input range of 54-57 V<sub>DC</sub>, injecting up to 90W of PoE power
- Slim design with IP40-rated metal housing, ideal for DIN-rail mounting
- Wide operating temperature range: -40°C to 75°C, suitable for harsh environments

### Introduction

The EKI-2701MPI-5G is a next-generation injector compliant with IEEE 802.3af/at/bt standards. Utilizing Power over Ethernet (PoE) technology, it delivers both data and power to Ethernet-enabled devices through a standard CAT6(A)/ CAT7 cable, providing up to 90W.

The EKI-2701MPI-5G allows for flexible deployment of standard and high-powered PD devices, simultaneously transmitting data and power over a single Ethernet cable up to 100 meters. It features dual power input options via a pluggable terminal block or DC jack, and offers both DIN-rail and wall-mounting installation options for added convenience.

With the EKI-2701MPI-5G, deploying WiFi access points at a 5Gbps transmission rate can be easy. It supports multi-data rates of 10M/100M/1000M/2.5G/5G and can provide up to 90W of PoE power, making it an ideal solution for high-performance networking needs.

### Specifications

#### Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3af/at/bt, 802.3ab/802.3bz
- **LAN** 10/100/1000Base-T (X)/2.5G/5G
- **Transmission Distance** Ethernet: Up to 100 m (mid-span)
- **Transmission Speed** Up to 5Gbps

#### Interface

- **Connectors** DATA IN: RJ45 x1  
PoE OUT: RJ45 x1
- **LED Indicators** System Power, PoE Status

#### Power

- **Power Consumption** Max. 92 W (Full load PoE)
- **Power Input** 54-57 V<sub>DC</sub> (Single input)
- **Power Output** 90W
- **Connectors** 4P Pluggable Terminal Block, DC Jack

#### Mechanism

- **Dimensions (W x H x D)** 84 x 80 x 25 mm (3.307" x 3.15" x 0.984")
- **Enclosure** IP40, Metal shell with solid mounting kits
- **Mounting** DIN rail, Wall-mounted

#### Protection

- **Reverse Polarity** Present

#### Environment

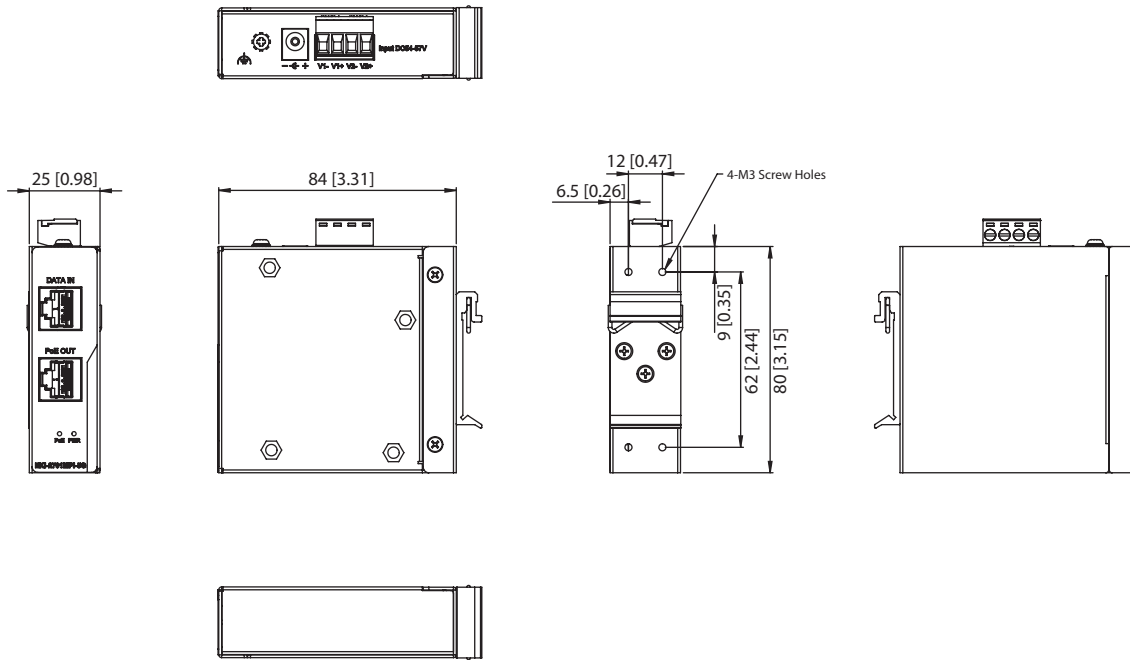
- **Operating Temperature** EKI-2701MPI-5G-AE: -40 ~ 75°C (-40 ~ 167°F)  
EKI-2701MPI-5GPS-A: 0 ~ 40°C (32 ~ 104°F)
- **Storage Temperature** EKI-2701MPI-5G-AE: -40 ~ 85°C (-40 ~ 185°F)  
EKI-2701MPI-5GPS-A: -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity** 5 ~ 95% (non-condensing)
- **Storage Humidity** 5 ~ 95% (non-condensing)

#### Certification

- **EMI** CE, FCC
- **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
- **Safety** UL62368
- **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



**Outline Dimension: 25 x 80 x 84 mm (0.98" x 3.15" x 3.31")**

## Ordering Information

- **EKI-2701MPI-5G-AE** Hardened 5G Gigabit Mega PoE Injector
- **EKI-2701MPI-5GPS-A** Hardened 5G Gigabit Mega PoE Injector with AC adapter

## Accessory (sold separately)

- **XIMC-FSP120-AWAN3R** AC Adapter, 100-240V, 54V, 120W
- **PSD-A120W48** Power Supply, DIN RAIL, 100-240V 120W 48V (adjustable voltage to 55V)