

# EKI-2701MPI

## Industrial Gigabit Mega PoE Injector



CE FCC RoHS COMPLIANT PRODUCT

### Features

- Supports 10/100/1000Base-T (X) for PoE out and Data in
- IEEE 802.3af/at/bt compliant
- Power input 55~57 V<sub>DC</sub>, injects power up to 90W
- Provides slim size and DIN-rail with IP40 metal mechanism
- Supports operating temperatures from -40 ~ 75°C

### Introduction

EKI-2701MPI is a next-generation injector which is compliant with IEEE 802.3af/at/bt. With PoE (Power over Ethernet) technology, both data and power to Ethernet-enabled devices run on a standard CAT5 cable. Based on the IEEE 802.3af/at/bt PoE standard, it provides the capability to serve up to 90W on a single port using four pairs of Cat. 5e/ Cat.6 Ethernet cabling.

The EKI-2701MPI injector flexibly deploys standard and high powered PD devices to transfer data and power simultaneously through one Ethernet cable while reaching distances of up to 100 meters. It supports dual power inputs via a pluggable terminal block or DC jack. DIN-rail and wall-mounting installation options provide greater user expediency.

To overcome the 100-meter transmit limitation of Ethernet cable for long distance distribution, the EKI-2701MPI-R PoE extender enables the PoE PD device to be installed up to 200 meters away. The EKI-2701MPI injector delivers data and power over 100 meters to the extender and then the PoE extender forwards the data while retaining power to remote PD sites.

### Specifications

#### Communications

- **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3af/at/bt, 802.3ab
- **LAN** 10/100/1000Base-T (X)
- **Transmission Distance** Ethernet: Up to 100 m
- **Transmission Speed** Up to 1000 Mbps

#### Interface

- **Connectors** DATA IN: RJ45  
PoE OUT: RJ45
- **LED Indicators** PoE, SYS

#### Power

- **Power Consumption** Max. 62 W (Full load PoE)
- **Power Input** 55~57 V<sub>DC</sub> (Single input)
- **Power Output** 90W
- **Connectors** 6P 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

#### Protection

- **Reverse Polarity** Present

#### Environment

- **Operating Temperature** EKI-2701MPI-AE: -40 ~ 75°C (-40 ~ 167°F)  
EKI-2701MPI-PS-AE: 0 ~ 40°C (32 ~ 104°F)
- **Storage Temperature** EKI-2701MPI-AE: -40 ~ 85°C (-40 ~ 185°F)  
EKI-2701MPI-PS-AE: -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity** 10 ~ 95% (non-condensing)
- **Storage Humidity** 10 ~ 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>

### Ordering Information

- **EKI-2701MPI-AE** Industrial Gigabit Mega PoE Injector
- **EKI-2701MPI-PS-AE** Industrial Gigabit Mega PoE Injector with AC adapter

### Accessory (sold separately)

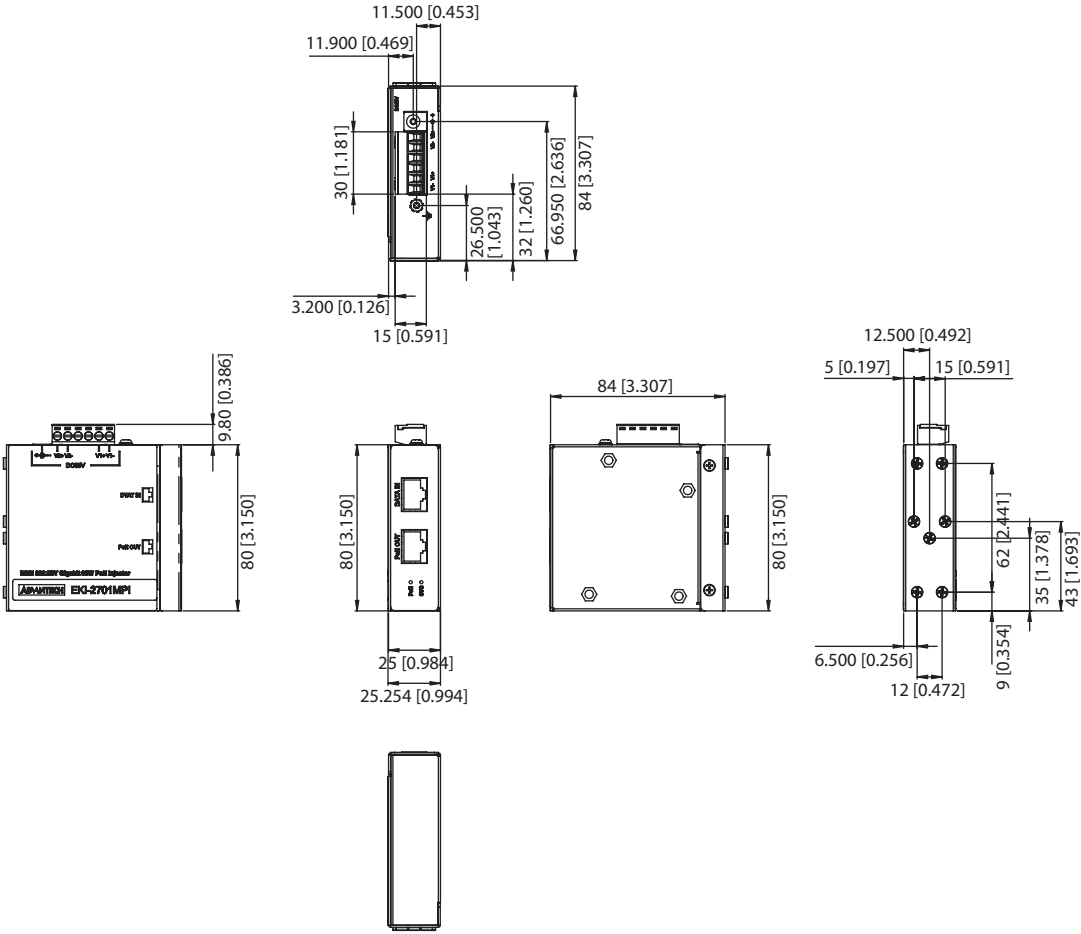
- **XIMC-FSP120-AWAN3** AC Adapter, 100-240V, 54V, 120W
- **PSD-A120W48** Power Supply, DIN RAIL, 100-240V 120W 48V (adjustable voltage to 55V)

### Partner Products

- **EKI-2701MPI-R-AE** HDBaseT Gigabit 60W PoE Extender

**Dimensions**

Unit: mm [inch]



**Panel Cut-Out Dimensions (W x H x D): 84 x 80 x 25 mm (3.307" x 3.15" x 0.984")**

**Applications**

**Injects data and PoE power to powered device of the injector**

**Injects and extends data and PoE power of injectors and extenders**

