

# EKI-2701MPI

## Industrial Gigabit Mega PoE Injector



### 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>, Inject power up to 60W
- Provides slim size and DIN-rail with IP40 metal mechanism
- Supports operating temperatures from -40 ~ 75°C

### Introduction

With PoE (Power over Ethernet) technology, both data and power to Ethernet-enabled devices run on a standard CAT5 cable. EKI-2701MPI is a next-generation injector which is compliant with IEEE 802.3af/at/bt. Based on the IEEE 802.3af/at/bt PoE standard, it provides the capability to serve up to 60 watts 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 and can still reach distances of up to 100 meters. It supports dual power inputs via a pluggable terminal block or DC jack and DIN-rail and wall-mounting for installation options that provide greater user expediency.

To overcome the 100-meter transmit limitation of Ethernet cable for long distance distribution, the PoE extender, EKI-2701MPI-R, enables the PoE PD device to be installed up to 200 meters away. The EKI-2701MPI injector delivers the data and power over 100 meters to the extender and then the PoE extender forwards the data and retains power to the 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** 60W
- **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** -40 ~ 85°C (-40 ~ 185°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
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6
- **Patent** <http://www.advantech.com/legal/patent>

### Ordering Information

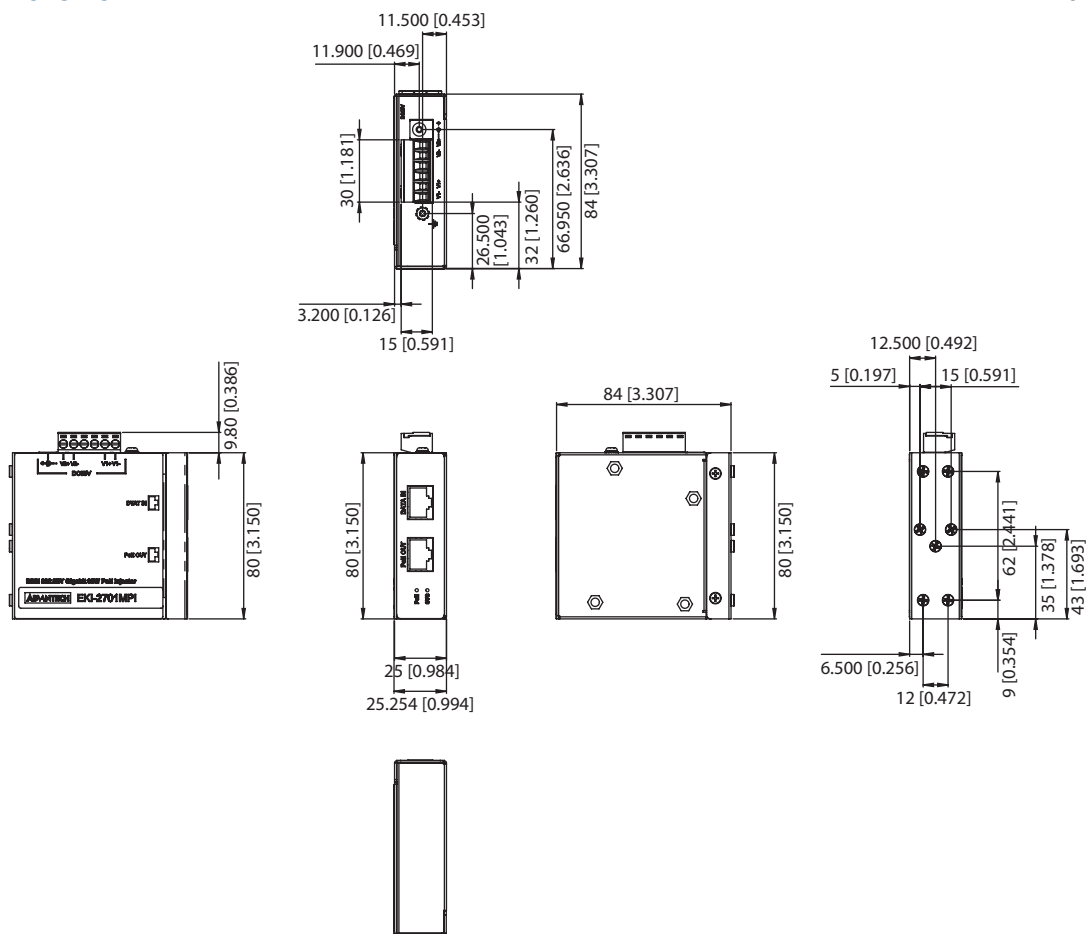
- **EKI-2701MPI-AE** Industrial Gigabit Mega PoE Injector
- **EKI-2701MPI-PS-AE** Industrial Gigabit Mega PoE Injector w/ PSU

### Partner Products

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

## Dimensions

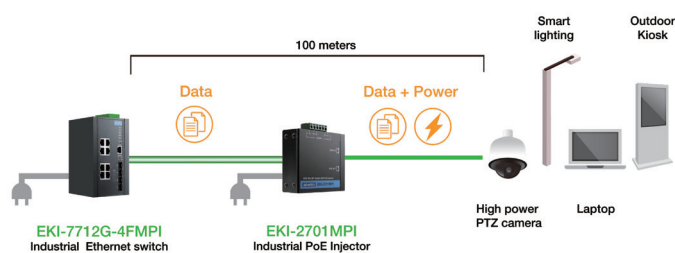
Unit: mm [inch]



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 injector



Injects and extends data and PoE power of injector and extender

