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_{DC}, 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_{DC} (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** — -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
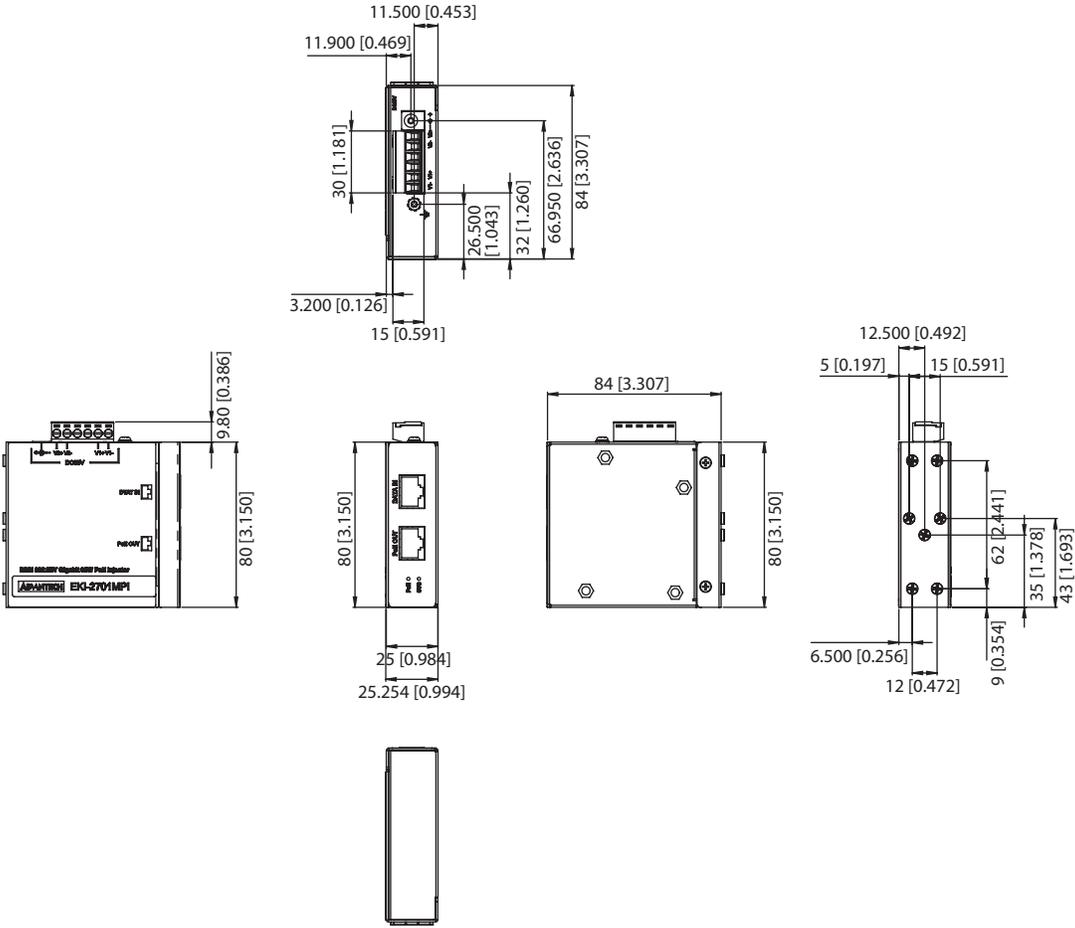
Ordering Information

- **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]

11.500 [0.453]
11.900 [0.469]
30 [1.181]
26.500 [1.043]
32 [1.260]
66.950 [2.636]
84 [3.307]
3.200 [0.126]
15 [0.591]

9.80 [0.386]
80 [3.150]

80 [3.150]
25 [0.984]
25.254 [0.994]

84 [3.307]
80 [3.150]

12.500 [0.492]
5 [0.197]
15 [0.591]
62 [2.441]
35 [1.378]
43 [1.693]
6.500 [0.256]
12 [0.472]
9 [0.354]
80 [3.150]

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

100 meters
Data
Data + Power
Smart lighting
Outdoor Kiosk
High-Powered PTZ Camera
Laptop

EKI-7712G-4FMPI
Industrial Ethernet switch

EKI-2701MPI
Industrial PoE Injector

Injects and extends data and PoE power of injectors and extenders

Data + Power
100 meters
100 meters

EKI-2701MPI
Industrial PoE Injector

EKI-2701MPI-R
Industrial PoE Extender