EKI-2711MPSI

Industrial multi-speed 802.3bt 70W PoE Splitter with Wide Temperature

Preliminary

Features

- Supports 10/100/1000/Base-TX/2.5G for PoE in and Data out
- IEEE 802.3af/at/bt compliant; split power & data from PoE equipment
- Power isolation and short circuit protection for power output
- Auto disconnection for over power voltage input
- Supports output power up to 70W at 12 or 24 V_{DC} with DIP switch
- Supports operating temperatures from -40 to 75°C
- Equipped with a pull-down DIN rail mounting kit for easy installation across various DIN rail dimensions
- Supports flexible mounting angles with the adjustable DIN rail bracket, allowing for versatile installation in space-constrained environments.

Introduction

The EKI-2711MPSI PoE Splitter receives power via Power over Ethernet (PoE) and separates the incoming PoE signal into distinct power and data outputs. It supports multi-data rates, including 2.5G Ethernet, enabling seamless integration of legacy devices such as IP cameras, Wi-Fi access points, and access control systems into modern PoE networks. It also acts as an alternative power source for devices located beyond the typical power coverage, reducing the need for additional cabling and lowering deployment costs.

The EKI-2711MPSI PoE Splitter functions as a powered device (PD), extracting power and data from the PoE signal and splitting them into separate power and data outputs. It allows both power and data to be transmitted over a single Ethernet cable from the Power Source Equipment (PSE) up to 100 meters (328 feet), with a maximum power output of 70 watts. The output voltage can be switched between 12V_{DC} and 24V_{DC} via a DIP switch, making it ideal for powering non-PoE devices.

Specifications

Communications

- **Standard** — IEEE 802.3, 802.3u, 802.3ab, 802.3bz, 802.3af/at/bt
- **LAN** — 10/100/1000Base-TX/2.5G
- **Transmission Distance** — up to 100 meters
- **Transmission Speed** — up to 2.5Gbps

Interface

- **Connectors** — PoE IN: RJ-45; DATA OUT: RJ-45
  3-pin removable screw terminal (power output)
- **LED Indicators** — System Power (green)

Power

- **Power Consumption** — 80.6W
- **Power Input** — 41.1~57 VD_C
- **Power Output** — At 12V_{DC}:
  50W @ 2.5G, 100 meters
  68W @ 1G, 75 meters
  70W @ 2.5G, 60 meters
  At 24V_{DC}:
  68W @ 2.5G, 75 meters

Mechanism

- **Dimensions (W x H x D)** 42 x 140 x 95 mm (1.65" x 5.51" x 3.74")
- **Enclosure** — IP30, Metal shell with solid mounting kits
- **Mounting** — DIN-rail, Wall

Protection

- **Overload current** — Present

Environment

- **Operating Temperature** — -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature** — -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** — 5 ~ 95% (non-condensing)
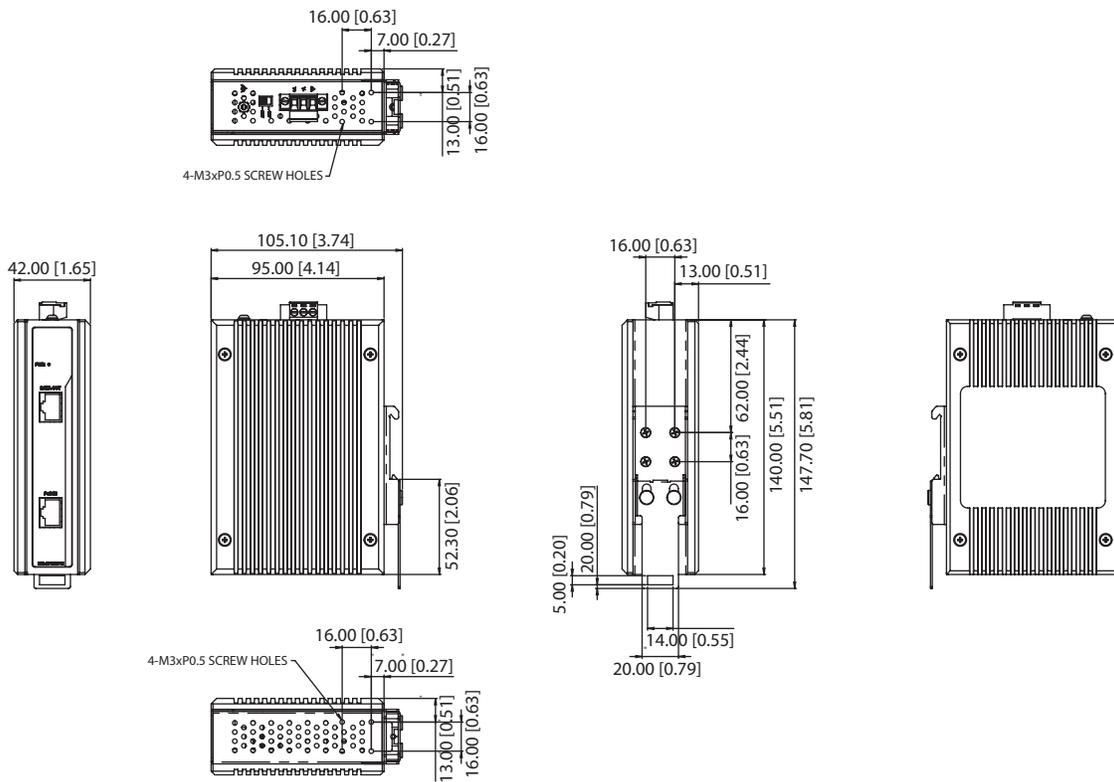- **Storage Humidity** — 5 ~ 95% (non-condensing)

Certifications

- **Safety** — LVD EN62368-1
- **EMI** — CE, FCC, BSMI
- **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

Note: The maximum transmission distance stated above is based on tests using CAT 6 cables with a DCR of 6.66Ω per 100 meters and a 95W PSE. Actual performance may vary depending on cable quality and environmental conditions.

Dimensions

Unit: mm

16.00 [0.63]
7.00 [0.27]
16.00 [0.63]
13.00 [0.51]
4-M3xP0.5 SCREW HOLES

42.00 [1.65]

105.10 [3.74]
95.00 [4.14]
52.30 [2.06]

16.00 [0.63]
13.00 [0.51]
62.00 [2.44]
16.00 [0.63]
140.00 [5.51]
147.70 [5.81]
5.00 [0.20]
20.00 [0.79]
14.00 [0.55]
20.00 [0.79]

16.00 [0.63]
4-M3xP0.5 SCREW HOLES
7.00 [0.27]
16.00 [0.63]
13.00 [0.51]

Ordering Information

- **EKI-2711MPSI-A**   Industrial multi-speed 802.3bt 70W PoE Splitter with wide temperature

Partner Product

- **EKI-2701PSI-AE**   Industrial 802.3af 12.95W PoE Splitter with wide temperature
- **EKI-2711PSI-A**   Industrial 802.3at 25W PoE Splitter with wide temperature

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