EKI-1751PI-M
EKI-1751PI-R

10/100Base-T, PoE Ethernet over VDSL2 (PoVDSL)

Features

- Media and protocol converter 4x 10/100BaseT ports to VDSL
- Power over VDSL (PoV)
- Power over Ethernet (PoE+)
- Operates over existing CAT3 cabling or Coaxial (combo port)
- Supports VDSL, Band plans 997 and 998 (symmetrical and asymmetrical) transmission per ITU-T G.993.2 standard
- Extended operating temperature of -40 to +75°C
- Provides over current protection
- LED indicators for power, PoE, and other status
- 30W for PoE+, per Ethernet port
- IP30 Rated enclosure

Introduction

The EKI-1751PI-M & EKI-1751PI-R are Industrial Long Reach Power over Ethernet Extenders to utilize existing copper cabling infrastructure (twisted pair or coaxial cable) extending Ethernet to up to 2000 meters over VDSL2. As an endspan unit, the Remote relies on its own source of power, and can provide 30W of power for each RJ-45 port to PD devices (up to 120W total), such as PTZ cameras, Wireless AP and VoIP phones. Both EKI-1751PI-M & EKI-1751PI-R comply to IEEE 802.3af/at standards, ensuring interoperability with a variety of compliant PD devices in the market. The EKI-1751PI-M & EKI-1751PI-R provide a unique PoE solution in the industry, offering flexibility and reliability.

Specifications

Interface

- **I/O Port**: 4 x 10/100Base-T/TX RJ-45
  1 Port VDSL2 Extender Combo Terminal Block or BNC
- **Power Connector**: 6-pin screw Terminal Block

Physical

- **Enclosure**: Metal Shell
- **Protection Class**: IP 30
- **Installation**: DIN-Rail
- **Dimensions (W x H x D)**: 62.5 x 135 x 106 mm (2.46" x 5.32" x 4.17")

LED Display

- **System LED**: LPWR, RPWR, PoE Status
- **Port LED**: Link / Speed / Activity

Environment

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

Power

- **Power Input**: 48 to 57 V_{DC}, redundant dual power input
- **Power Consumption**: 65W (EKI-1751PI-M)
  125W (EKI-1751PI-R)
- **Power Budget**: 120W (local power)
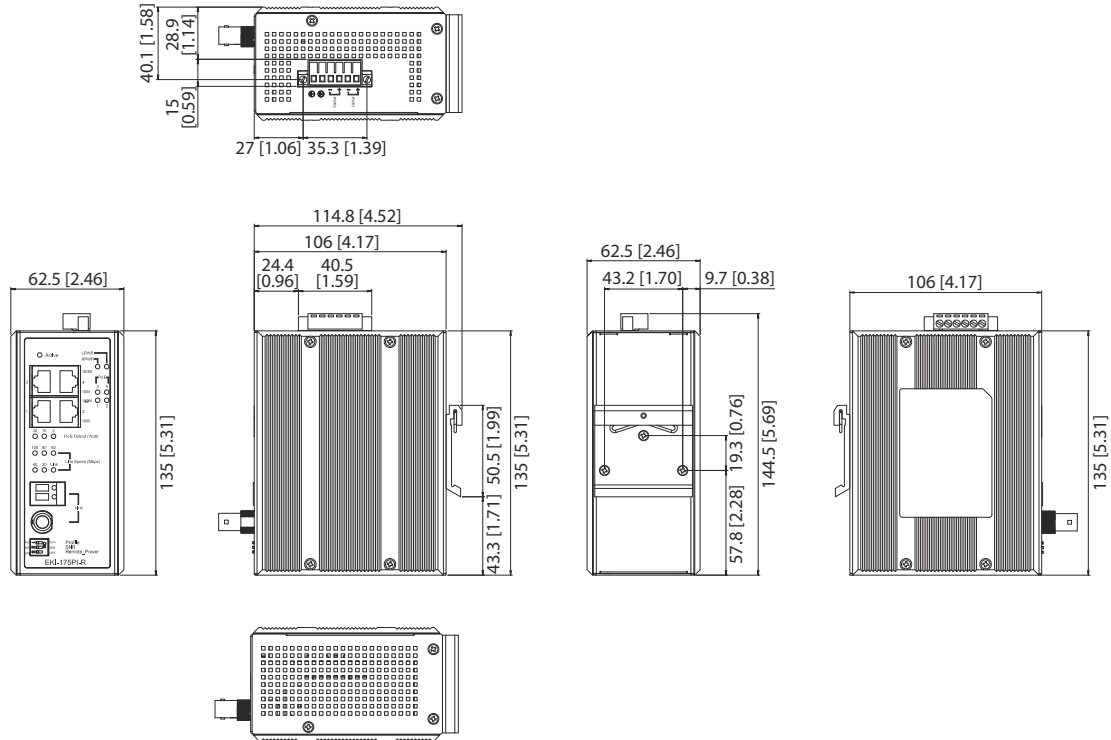 30W (remote power)

Certification

- **EMI**: CE, FCC Class B
- **Safety**: UL60950, LVD
- **EMC**:
  EN 61000-4-2
  EN 61000-4-3
  EN 61000-4-4
  EN 61000-4-5
  EN 61000-4-6
  EN 61000-4-8
  EN 61000-4-11
- **Shock**: IEC 60068-2-27
- **Freefall**: IEC 60068-2-32
- **Vibration**: IEC 60068-2-6
- *= Compliant
- **Patent**: http://www.advantech.com/legal/patent

Dimensions

Unit: mm [inch]

Panel Cut-out Dimensions: 62.5 x 135 x 106 mm (2.46" x 5.32" x 4.17")

Ordering Information

- **EKI-1751PI-M-AE**   Industrial VDSL2 Ethernet Extender, PoE, Master/CO
- **EKI-1751PI-R-AE**   Industrial VDSL2 Ethernet Extender, PoE, Remote/CPE