EKI-17511

Industrial Ethernet over VDSL2 (with M12)



Features

- Media and protocol converter 3 x 10/100BaseT ports to VDSL
- 2 x RJ45 Ethernet ports
- 1 x M12 Ethernet port
- 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 °C to +75 °C
- Provides over current and reverse polarity protection
- IP30 Rated enclosure







Introduction

The EKI-1751I is an Industrial Long Reach Ethernet Extenders to utilize existing copper cabling infrastructure (twisted pair or coaxial cable) extending Ethernet to up to 2000 meters over VDSL2. The EKI-1751I adds M12 Ethernet connector in addition to 2 RJ45 Ethernet connectors to offer the most flexibility possible to your project needs. M12 connector adds the option to deploy these easy to use plug-n-play devices into a more secure environments where reliability is the utmost priority.

The EKI-1751I is recommended to be used in pairs over a single pair of telephone-grade unshielded twisted pair (UTP) wire or a coaxial cable. EKI-1751I uses IP30 aluminum enclosures, ideal for industrial applications capable of handling wide range of temperatures -40 to +75 °C. A convenient DIP switch, provides easier configurations option to meet many deployment needs. Installer can select, VDSL2 'Band-Plans' (Asymmetric or Symmetric), SNR margin (6dB or 9dB). Abundant LEDs, offer quick snapshot of status and diagnostics.

Specifications

Interface

I/O Port 2 x 10/100Base-T/TX RJ-45

1 x 10/100Base-T/TX M12

1 Port VDSL2 Extender Combo Terminal Block

or BNC

 Power Connector 6-pin screw Terminal Block

Dip Switch

Pin 1 Selectable Band plan (Symmetric or Asymmetric)

Pin 2 Selectable target SNR margin (6dB or 9dB)

Selectable CO or RT Pin 3

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 PWR1, PWR2 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)

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Power

 Power Input 12 to 48 V_{DC}, redundant dual power input

 Power Consumption 5W

Certification

- EMI CE, FCC Class A Safety UL60950

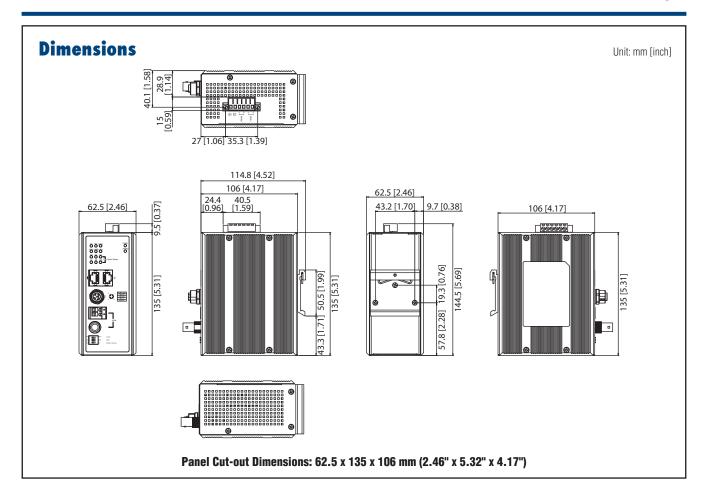
EN 61000-4-2 **EMC** EN 61000-4-3 EN 61000-4-4 EN 61000-4-5

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



Ordering Information

• **EKI-1751I-AE** Industrial VDSL2 Ethernet Extender, M12