Datasheet

EKI-1751I



Industrial Ethernet Over VDSL2 with M12

Features

- Media and protocol converter 3 x 10/100BASE-T 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 as per the ITU-T G.993.2 standard
- Extended operating temperature of -40 ~ 75°C
- · Provides overcurrent and reverse-polarity protection
- IP30-rated enclosure

Introduction

The EKI-1751I is an industrial long reach Ethernet extender that utilizes existing copper cabling infrastructure (twisted pair or coaxial cable) to extend Ethernet to up to 2000 m over VDSL2. The EKI-1751I adds an M12 Ethernet connector as well as 2 RJ45 Ethernet connectors to offer the most flexibility possible for your project needs. The M12 connector adds the option to deploy these user-friendly plug and play devices in 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 configurability for to meet many deployment needs, giving you immediate control over VDSL2 band plans (asymmetric/symmetric) and the signal-to-noise ratio (6 or 9 dB). The LEDs also offer a quick view of the device status as well as diagnostics functions.

Environment

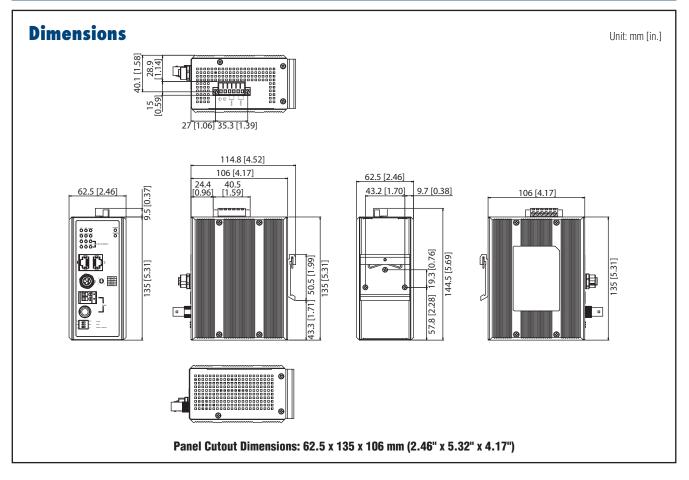
Specifications

Interface

| I/O Port 2 x 10/100BASE-T/TX RJ-45 1 x 10/100BASE-T/TX M12 1 x Port VDSL2 extender combo terminal block or BNC | Operating Temperature Storage Temperature Ambient Relative Humidity Humidity | -40 ~ 75°C (-40 ~ 167°F) -40 ~ 85°C (-40 ~ 185°F) 5 ~ 95% (non-condensing) 5 ~ 95% (non-condensing) |
|---|---|--|
| 6-pin screw terminal block | Power | |
| | | $12 \sim 48 V_{DC}$, redundant dual power input |
| Selectable band plan (Symmetric or Asymmetric) | Power Consumption | 5 W |
| Selectable CO or RT | Certification | |
| | | CE, FCC Class A UL60950 |
| Metal shell IP30 DIN rail 62.5 x 135 x 106 mm (2.46" x 5.32" x 4.17") | = 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 |
| PWR1, PWR2 Link, speed, activity | Shock Freefall Vibration Patent | EN 61000-4-11 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6 http://www.advantech.com/legal/patent |
| | 1 x 10/100BASE-T/TX M12 1 x Port VDSL2 extender combo terminal block or BNC 6-pin screw terminal block Selectable band plan (Symmetric or Asymmetric) Selectable target SNR margin (6 or 9dB) Selectable CO or RT Metal shell IP30 DIN rail 62.5 x 135 x 106 mm (2.46" x 5.32" x 4.17") PWR1, PWR2 | Storage Temperature Storage Temperature Ambient Relative Humidity Humidity Humidity Humidity Humidity Humidity Humidity Humidity Hower Power Consumption Certification EMI Safety EMC Stafety EMC |

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Ordering Information

EKI-1751I-AE

Industrial VDSL2 Ethernet Extender, M12

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EKI-17511

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