

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.

Specifications

Interface

- I/O Port**
 - 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
- Power Connector**
 - 6-pin screw terminal block

Dip Switch

- Pin 1**
 - Selectable band plan (Symmetric or Asymmetric)
- Pin 2**
 - Selectable target SNR margin (6 or 9dB)
- Pin 3**
 - Selectable CO or RT

Physical

- Enclosure**
 - Metal shell
- Protection Class**
 - IP30
- 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)
- Humidity**
 - 5 ~ 95% (non-condensing)

Power

- Power Input**
 - 12 ~ 48 V_{DC}, redundant dual power input
- Power Consumption**
 - 5 W

Certification

- EMI**
 - CE, FCC Class A
- Safety**
 - UL60950
- 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
- Patent**
 - <http://www.advantech.com/legal/patent>

Technical drawings of the 1000W power supply unit showing front, top, and side views with dimensions in mm and inches.

Front View Dimensions:

- Height: 135 [5.31]
- Width: 62.5 [2.46]
- Mounting hole spacing: 9.5 [0.37]

Top View Dimensions:

- Length: 114.8 [4.52]
- Width: 106 [4.17]
- Mounting hole spacing: 24.4 [0.96]
- Mounting hole spacing: 40.5 [1.59]
- Mounting hole spacing: 27 [1.06]
- Mounting hole spacing: 35.3 [1.39]

Side View Dimensions:

- Height: 144.5 [5.69]
- Width: 106 [4.17]
- Mounting hole spacing: 43.2 [1.70]
- Mounting hole spacing: 9.7 [0.38]
- Mounting hole spacing: 57.8 [2.28]
- Mounting hole spacing: 19.3 [0.76]

Panel Cutout Dimensions: 62.5 x 135 x 106 mm (2.46" x 5.32" x 4.17")

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

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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