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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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-17511 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-17511 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-17511 is recommended to be used in pairs over a single pair of telephone-grade unshielded twisted pair (UTP) wire or a coaxial cable. EKI-17511 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)
- **Pin 3**
 - Selectable CO or RT

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)
- **Humidity**
 - 5 ~ 95% (non-condensing)

Power

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

Certification

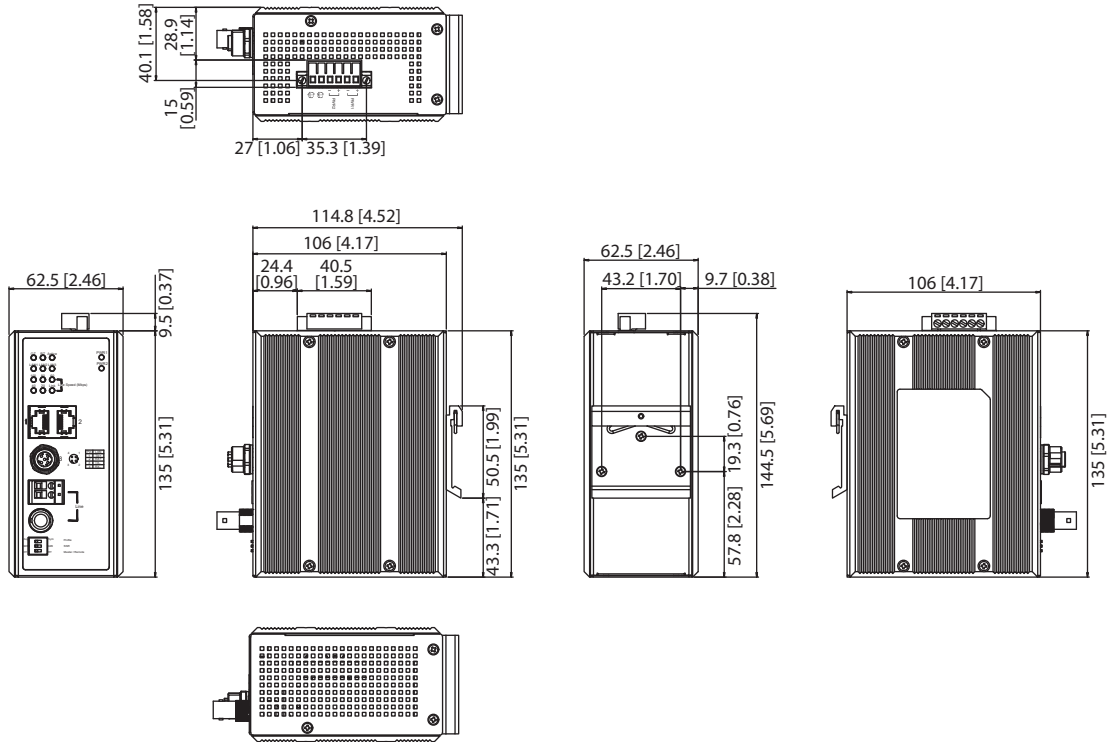
- **EMI**
 - CE, FCC Class A
- **Safety**
 - UL60950
- **EMC**
 - EN 61000-4-2
 - EN 61000-4-3
 - EN 61000-4-4
 - EN 61000-4-5
 - EN 61000-4-6
 - EN 61000-4-8
 - EN 61000-4-11
- **Shock**
 - IEC 60068-2-27
- **Freefall**
 - IEC 60068-2-32
- **Vibration**
 - IEC 60068-2-6

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