Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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-1751

10/100Base-T, Ethernet over VDSL2

Features

- Media and protocol converter (1)10/100BaseT ports to (1)VDSL2
- Operates over existing CAT3 cabling
- Supports VDSL, Band plans 997 and 998 (symmetrical and asymmetrical) transmission per ITU-T G.993.2 standard
- On board surge protection
- LED indicators for power, speed and other status
- Signal to Noise Ratio setting (SNR)

Introduction

The EKI-1751-AE is a Long Reach Ethernet Extender to utilize existing copper cabling infrastructure (twisted pair), extending Ethernet to up to 1200 meters over VDSL2. Applications such as IP-based Internet connections, video surveillance and voice services can benefit from the EKI-1751-AE series. The devices support VDSL2 Profiles 17a and 30a.

EKI-1751-AE is designed to work in pairs, over twisted pair; as an unmanaged product, it is easy to install and each Extender can be set to a Master (CO) or Remote (CPE) via a DIP Switch. Offering one model that can be set to a Master or Remote and operate as a pair reduces the cost of investment and minimizes inventory as well.

The Extenders support SNR Margin, VDSL2 Profile 30a(High Bandwidth Mode) or VDSL2 Profile 17a(Long Reach Mode), and Symmetric/Asymmetric data throughput, all DIP Switch-selectable. The selection of symmetrical or asymmetrical for throughput of upstream/downstream data rates directly influences the distance covered. LEDs include link activity, VDSL status, and Central Office or Customer Premises Equipment designation.

The Extenders meet 802.3 Ethernet standards, as well as transparently supporting VLANS, 802.1q.

Specifications

Interface

- **I/O Port**: 1 x 10/100Base-T/TX RJ-45
  1 x VDSL2 Extender RJ-45
- **Power Connector**: 2.1mm DC Jack

Dip Switch

- **Pin 1**: Selectable CO or CPE mode
- **Pin 2**: Selectable 30a or 17a (VDSL2 Profile)
- **Pin 3**: Selectable Band plan (Symmetric or Asymmetric)
- **Pin 4**: electable target SNR margin (6dB or 9dB)

Physical

- **Enclosure**: Metal Shell
- **Protection Class**: IP 30
- **Installation**: Din-Rail or Panel Rack Mountable
- **Dimensions (W x H x D)**: 72.5 x 23 x 94.5 mm (2.85" x 0.91" x 3.72")

LED Display

- **System LED**: PWR
- **Port LED**: Link / Speed / Activity

Environment

- **Operating Temperature**: 0 ~ 45°C (32 ~ 113°F)
- **Storage Temperature**: -40 ~ 70°C (-40 ~ 158°F)
- **Ambient Relative Humidity**: 0 ~ 95% (non-condensing)
- **Humidity**: 0 ~ 95% (non-condensing)

Power

- **Power Input**: 12V$_{DC}$ / 1A, External Power Adapter
- **Power Consumption**: 4.2W
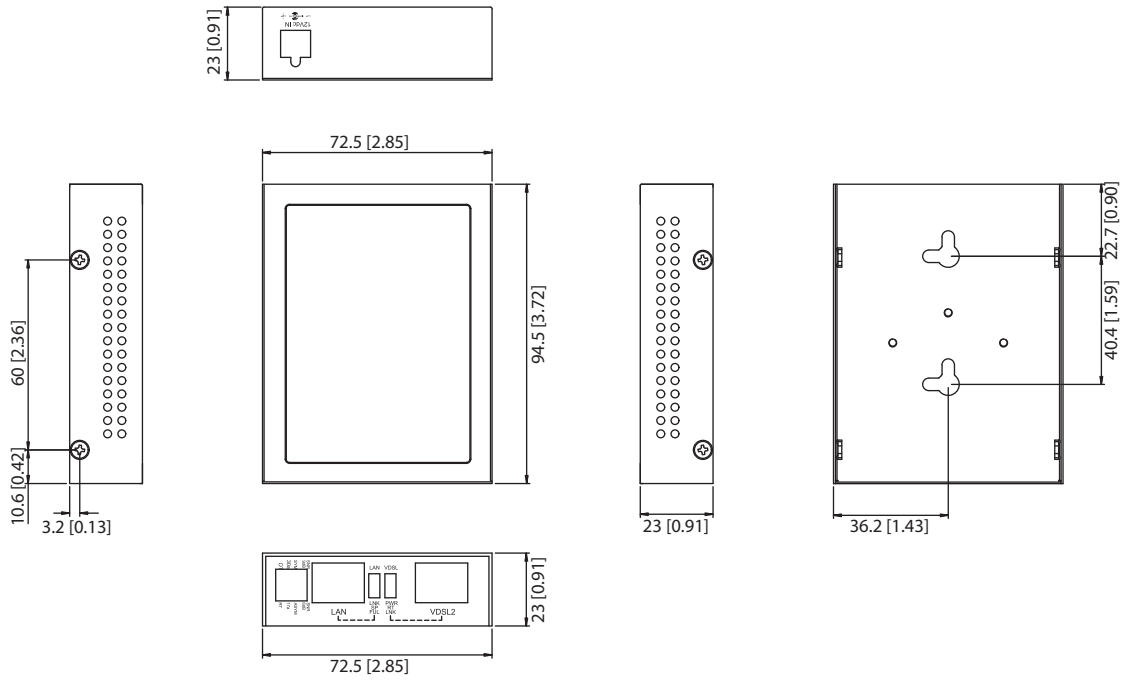
Certification

- **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

Panel Cut-out Dimensions: 72.5 x 23 x 94.5 mm (2.85" x 0.91" x 3.72")

Ordering Information

- **EKI-1751-AE** VDSL2 Ethernet Extender Compact