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 Switchselectable. 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 2.1mm DC Jack

Power Connector

Dip Switch

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

Physical

 Enclosure Metal Shell Protection Class

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) 0 ~ 95% (non-condensing) Humidity

Power

Power Input 12V_{DC} / 1A, External Power Adapter Power Consumption 4.2W

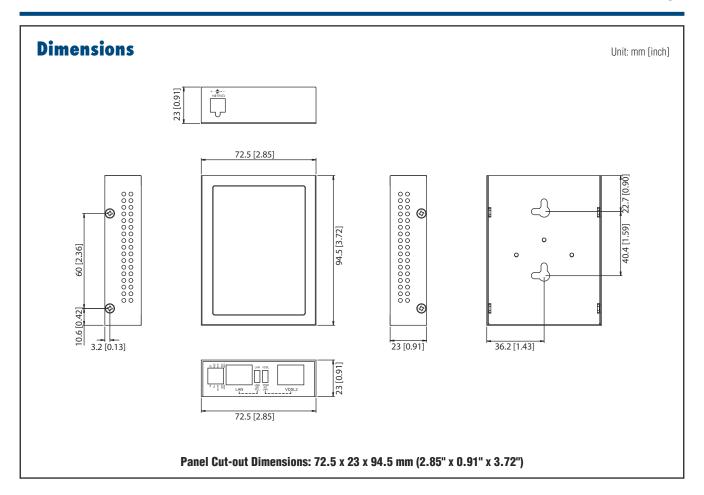
Certification

CE. FCC Class A = EMI 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



Ordering Information

EKI-1751-AE VDSL

VDSL2 Ethernet Extender Compact