# EKI-17511

# **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 (tv. stee 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 nos. 11 xibility 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 itmost priority.

The EKI-1751I is recommended to be used in pairs over a single pair of telephone-grade unshield divisted 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 t. +7.5 C. A convenient dip switch provides easier configurability for to meet many deployment needs, giving you immediate control over VDSL2 band plans (asymmetric/sym.petric, 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 2 x 10/100BASE-7/IX P J-45 I/O Port

1 x 10/100BASE-T/TX M12

1 x Port VDSL2 extender ou mbo terminal block

6-pin scre. 'termina: Diock Power Connector

## **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<sub>DC</sub>, redundant dual power input

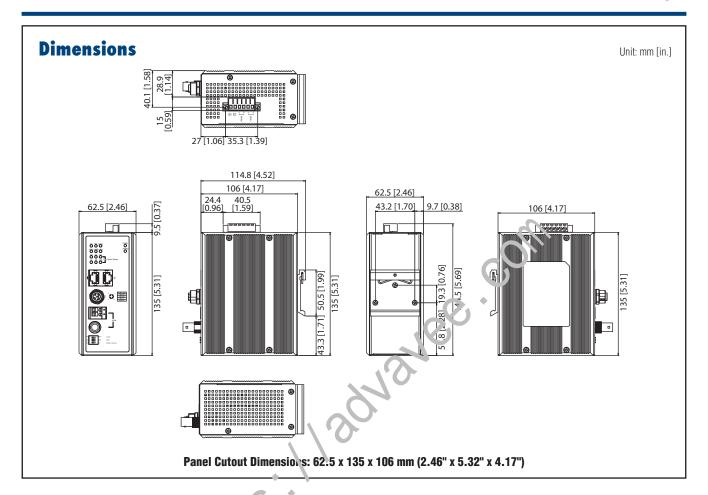
Power Consumption

#### Certification

= EMI CE. FCC Class A Safety UL60950 EN 61000-4-2 **EMC** 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



# **Ordering Information**

■ EKI-1751I-AE

Industrial VDSL2 Etherner Exter der, M12