EKI-1751I

Industrial Ethernet Over VDSL2 with M12

Media and protocol converter 3 x 10/100BASE-T ports to VDSL

- Operates over existing CAT3 cabling or coaxial (combo port)

transmission as per the ITU-T G.993.2 standard Extended operating temperature of -40 ~ 75°C Provides overcurrent and reverse-polarity protection

Supports VDSL, Band Plans 997 and 998 (symmetrical and asymmetrical)



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.

Features

2 x RJ45 Ethernet ports
1 x M12 Ethernet port

IP30-rated enclosure

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.

Environment

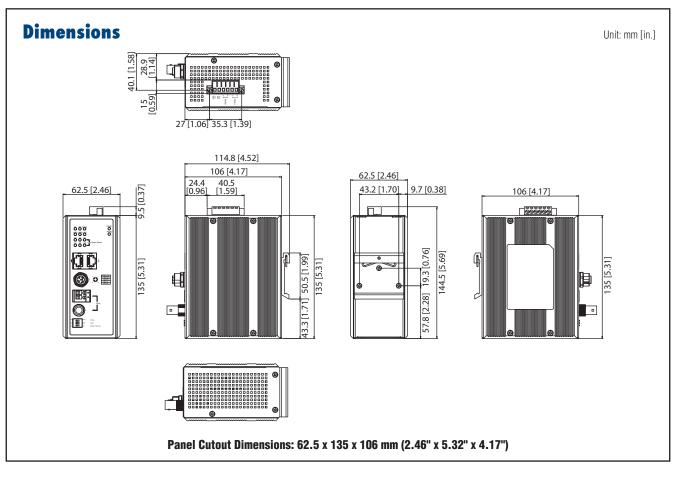
Specifications

Interface

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I/O Port	I/O Port 2 x 10/100BASE-T/TX RJ-45	 Operating Temperature 	-40 ~ 75°C (-40 ~ 167°F)
	1 x 10/100BASE-T/TX M12	 Storage Temperature 	-40 ~ 85°C (-40 ~ 185°F)
	1 x Port VDSL2 extender combo terminal block	Ambient Relative Humidity	5 ~ 95% (non-condensing)
	or BNC	 Humidity 	5 ~ 95% (non-condensing)
 Power Connector 	6-pin screw terminal block		
		Power	
Dip Switch		 Power Input 	$12 \sim 48 V_{DC}$, redundant dual power input
Pin 1	Selectable band plan (Symmetric or Asymmetric)	 Power Consumption 	5 W
Pin 2	Selectable target SNR margin (6 or 9dB)		
Pin 3	Selectable CO or RT	Certification	
		= EMI	CE, FCC Class A
Physical		 Safety 	UL60950
 Enclosure 	Metal shell	= EMC	EN 61000-4-2
Protection Class	IP30		EN 61000-4-3
Installation	DIN rail		EN 61000-4-4
 Dimensions (W x H x D) 	62.5 x 135 x 106 mm (2.46" x 5.32" x 4.17")		EN 61000-4-5
			EN 61000-4-6
LED Display			EN 61000-4-8
 System LED 	PWR1, PWR2		EN 61000-4-11
 Port LED 	Link, speed, activity	 Shock 	IEC 60068-2-27
	Enny, spood, adminy	 Freefall 	IEC 60068-2-32
		 Vibration 	IEC 60068-2-6
		 Patent 	http://www.advantech.com/legal/patent

All product specifications are subject to change without notice

EKI-17511



Ordering Information

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