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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!



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EKI-1221D EKI-1222D

1-port Modbus Gateway with Integrated **Ethernet Cascading**

2-port Modbus Gateway with Integrated **Ethernet Cascading**



Features

- Provides 2 x 10/100 Mbps Ethernet ports for Daisy-Chain connectivity
- Integration of Modbus TCP and Modbus RTU/ASCII networks
- Supports Ethernet auto-bypass function •
- Master mode supports 32 TCP slaves at the same time
- Slave mode supports up to 16 TCP masters •
- Supports mapping Modbus slave ID option
- Auto searching Modbus slave ID over configuration utility
- Mounts on DIN-rail and Wall mount
- Class I, Division 2 certification .

Introduction

The EKI-1200 series Modbus gateways are bi-directional gateways for integrating new and existing Modbus/RTU and Modbus/ASCII serial devices to newer TCP/IP networked-based devices. The EKI-1221D/1222D feature two Ethernet ports with one IP address for easier network wiring. One port can be used to connect to the network, and the other port can be used to connect to another Ethernet device or another EKI-1221D/1222D. They provide a simple and cost-effective way to bring the advantage of remote management and data accessibility to thousand of devices that can not connect to a network. The EKI-1221D/1222D provide a feature that can allow users to select master or slave operation mode for each serial port. They not only allow an Ethernet master to control serial slaves, but also allow serial masters to control Ethernet slaves.

Specifications

Ethernet Communications

- Compatibility IEEE 802.3, IEEE 802.3u Speed 10/100 Mbps
- No. of Ports 2
- Port Connector 8-pin RJ45
- Protection Built-in 1.5 KV magnetic isolation

Serial Communications

 Port Type 	RS-232/422/485, software selectable
No. of Por	ts EKI-1221D: 1
	EKI-1222D: 2
 Port Conne 	ector DB9 male
 Data Bits 	7, 8
 Stop Bits 	1, 2
 Parity 	None, Odd, Even, Space, Mark
- Flow Cont	rol XON/XOFF, RTS/CTS, DTR/DSR
 Baud Rate 	50 bps ~ 921.6 kbps, any baud rate setting
 Serial Sig 	nals RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND
	RS-422: TxD+, TxD-, RxD+, RxD-, GND
	RS-485: Data+, Data-, GND
 Protection 	15 KV ESD for all signals
Software	
 OS Suppor 	rt 32-bit/64-bit Windows XP/Vista/7/8/8.1. Windows
	Server 2003/2008/2008 R2/2012/2012 R2, Windows
	CE 5.0, and Linux
 Utility Sof 	tware Advantech EKI Device Configuration Utility
 Operation 	Modes Modbus RTU Master/Slave mode

Modbus ASCII Master/Slave mode

Modbus RTU, Modbus TCP, Modbus ASCII

Windows Utility, Web Browser

General

 LED Indicators 	System: Power, System Status LAN: Speed, Link/Active Serial: Tx. Rx
Reboot Trigger	Built-in WDT (watchdog timer)

Mechanics

- Dimensions (W x H x D) 37 x 140 x 95 mm (1.46" x 5.51" x 3.74")
- Enclosure Metal with solid mounting hardware DIN-rail, Wall
- Mounting
- Weight EKI-1221D: 0.58 Kg EKI-1222D: 0.588 Kg

Power Requirements

•	Power	Input		$12 \sim 48 \; V_{\text{DC}},$ redundant dual inputs
•	Power	Connecto	or	Terminal block
	_	-		

 Power Consumption EKI-1221D: 2 W EKI-1222D: 2.5 W

Environment

- Operating Temperature -10 ~ 60°C (14 ~ 140°F)
- Storage Temperature -20 ~ 80°C (-4 ~ 176°F)
- Operating Humidity 5~95% RH

Regulatory Approvals

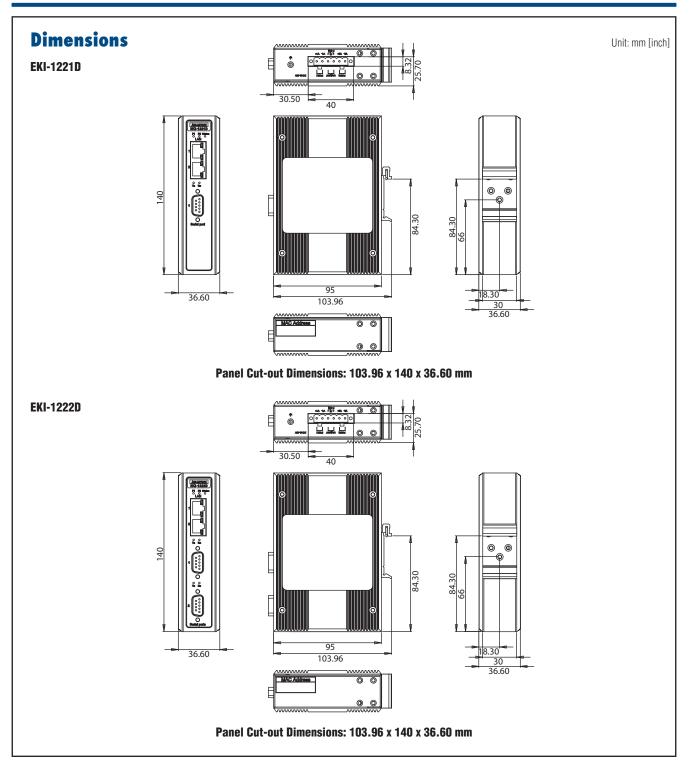
- EMC	EN 55022, EN 55011, EN 61000-6-4, IEC 61000-4-2/3/4/5/6/8, FCC 47 CFR Part 15
	Subpart B (Class A)
 Hazardous Location 	Class I, Division 2

AD\ANTECH **Industrial Gateway Solutions**

- Configuration

Protocols

EKI-1221D EKI-1222D



Ordering Information

EKI-1221D

- 1-port Modbus Gateway with Ethernet Cascading
 2-port Modbus Gateway with Ethernet Cascading
- EKI-1222D 2-port Modbus Gateway with Ethernet C * All items include 1 pc OPT1-DB9 D-Sub9 to Terminal Converter
- **OPT1-DB9** D-Sub9 to Terminal Converter
- Online Download www.advantech.com/products