imall

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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1-port Modbus Gateway

2-port Modbus Gateway

4-port Modbus Gateway



Features

- Provides 2 x 10/100 Mbps Ethernet ports for LAN redundancy
- Integration of Modbus TCP and Modbus RTU/ASCII networks
- Supports up to 921.6 kbps, and any baud rate setting •
- Supports up to 16 connections and 32 requests simultaneously
- Auto searching slave ID over configuration utility .
- Software selectable RS-232/422/485 communication
- Mounts on DIN-rail and Wall mount
- Built-in 15 KV ESD protection for all serial signals .
- Automatic RS-485 data flow control .

Introduction

EKI-1221

EKI-1222

EKI-1224

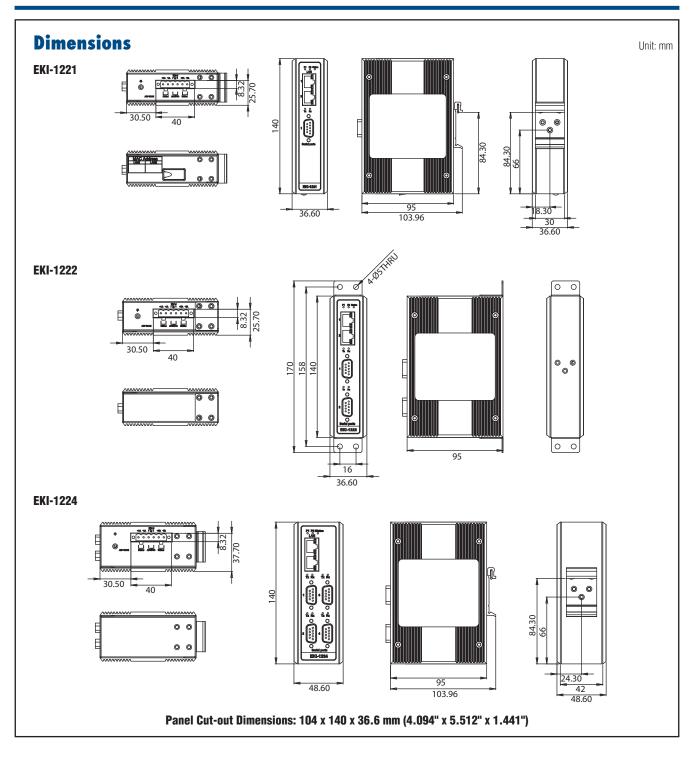
The EKI-1200 series Modbus gateways are bi-directional gateways for integrating new and existing Modbus/RTU and Modbus/ASCII serial devices to newer TCP/IP networked-based devices. The EKI-1221/1222/1224 feature two independent Ethernet ports and MAC addresses to provide a redundant networking mechanism to guarantee Ethernet networking reliability. 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-1221/1222/1224 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

| Ethernet Communications | | General | |
|---|--|--|--|
| Compatibility Speed No. of Ports Port Connector | IEEE 802.3, IEEE 802.3u 10/100 Mbps 2 8-pin RJ45 | LED Indicators Reboot Trigger | System: Power, System Status LAN: Speed, Link/Active Serial: Tx, Rx Built-in WDT (watchdog timer) |
| Protection | Built-in 1.5 KV magnetic isolation | Mechanics | |
| Serial Communications Port Type | RS-232/422/485, software selectable | Dimensions (W x H x D) | EKI-1221/1222: 37 x 140 x 95 mm (1.46" x 5.51" x 3.74") EKI-1224: 55 x 140 x 95 mm (2.17" x 5.51" x 3.74") |
| No. of Ports | EKI-1221: 1 EKI-1222: 2 EKI-1224: 4 | EnclosureMounting | Metal with solid mounting hardware DIN-rail, Wall |
| Port Connector Data Bits Stop Bits | DB9 male 7, 8 1, 2 | Weight | EKI-1221: 0.592 Kg EKI-1222: 0.6 Kg EKI-1224: 0.668 Kg |
| Parity Flow Control | None, Odd, Even, Space, Mark XON/XOFF, RTS/CTS, DTR/DSR | Power RequirementsPower Input | $12 \sim 48 \ V_{\text{DC}},$ redundant dual inputs |
| Baud Rate Serial Signals | 50 bps ~ 921.6 kbps, any baud rate setting RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, GND | Power Connector Power Consumption | Terminal block EKI-1221: 2 W EKI-1222: 2.5 W EKI-1224: 4 W |
| Protection | 15 KV ESD for all signals | Environment | |
| Software OS Support | 32-bit/64-bit Windows XP/Vista/7/8, Windows Server 2003/2008/2008 R2/2012, Windows CE 5.0, and Linux | Operating Temperature Storage Temperature Operating Humidity | -10 ~ 60°C (14 ~ 140°F) -20 ~ 80°C (-4 ~ 176°F) 5 ~ 95% RH |
| Utility Software Operation Modes Configuration Protocols | Advantech EKI Device Configuration Utility Modbus RTU Master/Slave mode Modbus ASCII Master/Slave mode Windows Utility, Web Browser Modbus RTU, Modbus TCP, Modbus ASCII | Regulatory Approvals EMC Safety Hazardous Location | CE, FCC Part 15 Subpart B (Class A) UL/cUL 60950-1 Class I, Division 2 |

EKI-1221 EKI-1222 EKI-1224



Ordering Information

- EKI-1221
- EKI-1222
 - 2-port Modbus Gateway
- EKI-1224 OPT1-DB9
- 4-port Modbus Gateway D-Sub9 to Terminal Converter

1-port Modbus Gateway