EKI-1221/CI/I EKI-1222/CI/I EKI-1224/CI/I

1-Port Modbus Gateway

2-Port Modbus Gateway

4-Port Modbus Gateway



Features

- 2 x 10/100 Mbps Ethernet ports for LAN redundancy
- Integrates Modbus TCP and Modbus RTU/ASCII networks
- Supports up to 921.6 kbps and any baud rate setting
- Supports up to 16 connections per serial port under Modbus master mode and 32 sessions under Modbus slave mode
- Software-selectable RS-232/422/485-2w/485-4w communication
- Mountable via DIN rail and wall mount
- Built-in 15 kV ESD protection for all serial signals
- Automatic RS-485 data flow control
- Supports surge protection for DC power ports with line-to-line (1 kV) and line-to-earth (2 kV) for signal ports with 2 kV
- "I" models support a wide operating temperature
- "CI" models support isolation and a wide operating temperature

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-1221/1222/1224 feature two independent Ethernet ports and MAC addresses to provide redundancy and reliability. They provide a simple and cost-effective way to bring remote management and data accessibility to thousands of devices that cannot otherwise connect to a network. The EKI-1221/1222/1224 allow users to select master or slave operation mode for each serial port. In addition to allowing an Ethernet master to control serial slaves, they also allow serial masters to control Ethernet slaves

Specifications

Ethernet Communications

Compatibility

Speed No. of Ports

10/100 Mbps

ÈKI-1221: 1

FKI-1222: 2

FKI-1224 4

Port Connector Protection

8-pin RJ45

IEEE 802.3, IEEE 802.3u

Serial Communications

- Port Connector
- Data Bits
- Stop Bits
- Parity Flow Control

- Protection

Software

- Utility Software **Operation Modes**
- Configuration Protocols

- Built-in 2.25 k V_{DC} magnetic isolation

RS-232/422/485-2w/485-4w, software selectable

(EKI-1224CI-CE supports RS-422/485 only)

Port	Туре
	11.

No.	of	Ports	

- Baud Rate
- Serial Signals
- DB9 male EKI-1221CI-DE; EKI-1222CI-DE also provide Terminal Block 5, 6, 7.8 1, 1.5, 2 None, Odd, Even, Space, Mark XON/XOFF, RTS/CTS 50 bps ~ 921.6 kbps, any baud rate setting [CE Version] RS-232: TxD, RxD, CTS, RTS, DCD, RI, GND, DTR, DSR RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485 2-wire: Data+, Data-, GND [DE Version] DB9: RS-232 isolation: TxD, RxD, CTS, RTS, GND RS-232: TxD, RxD, CTS, RTS, DCD, RI, GND, DTR, DSR Terminal Block (From top to bottom):

RS-422: GND, RxD-, RxD+, TxD+, TxDRS-485 2-wire: GND, NC, NC, TxD+, TxDRS-

485 4-wire: GND, RxD-, RxD+, TxD+, TxD-

Windows XP/7/8 1/10 Windows Server 2003/2008/2012/2016/2019, and Linux

Modbus ASCII Master/Slave mode

SMTP, ARP, NTF

Advantech EKI Device Configuration Utility Modbus BTLL Master/Slave mode

15 KV ESD for all signals

- General LED Indicators
- Reboot Trigger
- **Mechanics**
- Dimensions (W x H x D)
- Enclosure
- Mounting
- Weight
- IP Rating

Power Requirements

- Power Input Power Connector
 - **Power Consumption**

12 ~ 48 Vpc, redundant dual inputs Terminal block EKI-1221: 3.2 W FKI-1222: 3.2 W FKI-1224 4 1 W

System: Power, System Status

Built-in WDT (watchdog timer)

EKI-1221/I-CE; EKI-1221CI-DE; EKI-1222/I-CE;

Metal with solid mounting hardware

EKI-1222CI-DE: 30 x 140 x 95 mm (1.18" x 5.51" x 3.74")

EKI-1224/CI/I-CE: 42 x 140 x 95 mm (1.65" x 5.51" x 3.74")

LAN: Speed, Link/Active

Serial Tx Rx

DIN-rail, Wall EKI-1221: 0.472 Kg

10~95% RH

IP30

EKI-1222: 0.472 Kg EKI-1222: 0.48 Kg EKI-1224: 0.555 Kg

Environment

- **Operating Temperature**
- Storage Temperature
- **Operating Humidity**

Regulatory Approvals

CE, FCC Part 15 Subpart B (Class A) UL/cUL (Class I, Division 2, Groups A, B, C and D), FMC Hazardous location ATEX (Zone 2 Ex nA nC IIC T4 Gc)

Port to Port Isolation ('CI' models)

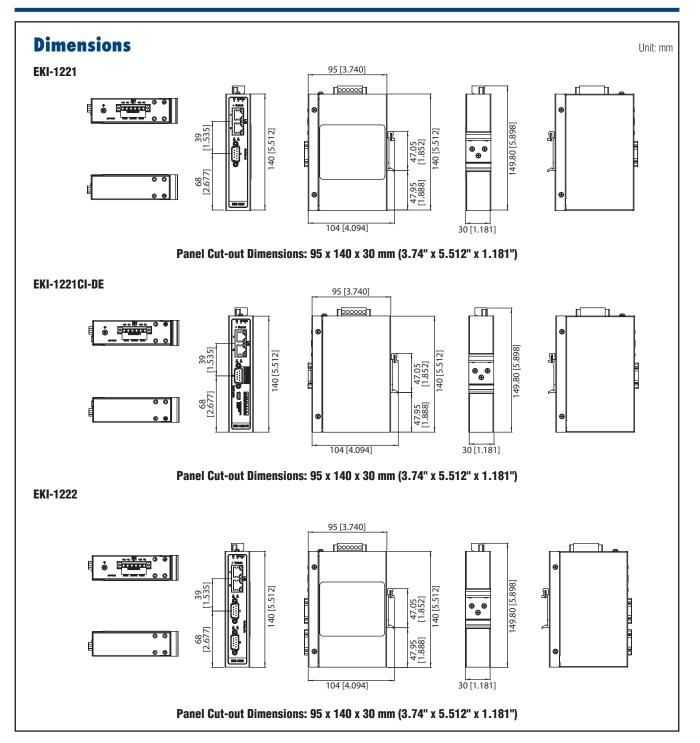
Serial to Ethernet 2.25 k Voc Serial to Power 2 k Vpc 2.25 k VDC

Windows Utility, Telnet Console, Web Browser ICMP, IP, TCP, UDP, BOOTP, DHCP, Auto IP, SNMP, HTTP, DNS, Ethernet to Power

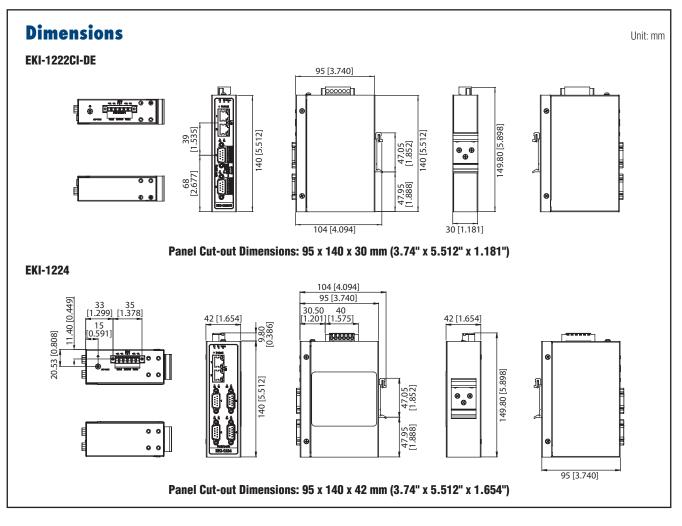
AD\ANTECH Industrial Wireless and Protocol Gateway Solutions

EKI-1221/EKI-1222/EKI-1224: -10 ~ 60 °C (14 ~ 140 °F) 'CI & I' models: -40 ~ 80 °C (-40 ~ 176 °F) -40 ~ 85 °C (-40 ~ 185 °F)

EKI-1221/CI/I EKI-1222/CI/I EKI-1224/CI/I



EKI-1221/CI/I EKI-1222/CI/I EKI-1224/CI/I



Ordering Information

- EKI-1221-CE
- EKI-1222-CE 2-port RS-232/422/485 Modbus Gateway
- EKI-1224-CE 4-port RS-232/422/485 Modbus Gateway
- EKI-1221I-CE 1-port RS-232/422/485 Modbus Gateway with Wide Operating Temperature

1-port RS-232/422/485 Modbus Gateway

- EKI-1222I-CE 2-port RS-232/422/485 Modbus Gateway with Wide Operating Temperature
- EKI-1224I-CE 4-port RS-232/422/485 Modbus Gateway with Wide Operating Temperature
- EKI-1221CI-DE
- EKI-1222CI-DE
- LKI-122201-DL
- EKI-1224CI-CE
- OPT1-DB9

1-port RS-232/422/485-2w/485-4w Modbus Gateway with Wide operation temperature and isolation 2-port RS-232/422/485-2w/485-4w Modbus Gateway with Wide operation temperature and isolation 4-port RS-422/485 Modbus Gateway with Wide Operation Temperature and Isolation D-Sub9 to Terminal Converter

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