

EKI-1228/CI/I-DR

8-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
- Supportup to 16 connections on each serial portunder Modbus Master and 128 sessions under Modbus Slave mode.
- Software selectable RS-232/422/485 communication (RS-422/485 for model)
- · Mounts on 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 D.C. powerports with line to line 2KV, and le
 to earth 4 KV; for signal ports with 4 KV.
- 'I' models support a wide operating temperature
- 'Cl' models support isolation and 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-1228 has 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 connect to a network. EKI-1228 provides 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

• Port Connector 8-pin RJ45

Protection Built-in 1.5 KV magnetic isolation

Serial Communications

• Port Type RS-232/422/485, software selectable

("CI" mode supports RS-422/485)

• No. of Ports 8

Port Connector
 Data Bits
 Stop Bits
 DB9 male
 5, 6, 7, 8
 1, 1.5, 2

Parity None, Odd, Even, Space, Mark
 Flow Control XON/XOFF, RTS/CTS, DTR/DSR

Baud Rate
 Serial Signals
 Serial Signals

GND

RS-422: TxD+, TxD-, RxD+, RxD-, GND

RS-485: Data+, Data-, GND

• **Protection** Built-in 15 KV ESD for all signals

Software

- OS Support Windows XP/7/8.1/10, Windows Server 2003/2008/2012/2016/2019, and Linux

Utility Software
 Operation Modes
 Advantech EKI Device Configuration Utility
 Modbus RTU Master/Slave mode
 Modbus ASCII Master/Slave mode

Configuration
 Windows Utility, Web Browser

• Protocols ICMP, P, TCP, UDP, BOOTP, DHCP, Auto P, HTTP,

DNS, SMTP, ARP, NTP

Mechanics

• Dimensions (W x H x D) 86.6 x 140 x 95 mm (3.41" x 5.51" x 3.74")

Enclosure
 Metal with solid mounting hardware

Mounting DIN-rail, Wall

• Weight EKI-1228/I: 900g, EKI-1228CI: 1000g

General

• LED Indicators System: Power, System Status/LAN: Speed, Link/Active

Serial: Tx, Rx

Power Requirements

• Input 12 ~ 48 V_{DC} , redundant dual inputs

 Connector Teminal block
 Consumption EKI-1228/I: 5W EKI-1228CI: 6W

Environment

• Operating Temperature EKI-1228-DR: -10 $\sim 60^{\circ}\text{C}$ (14 $\sim 140^{\circ}\text{F})$

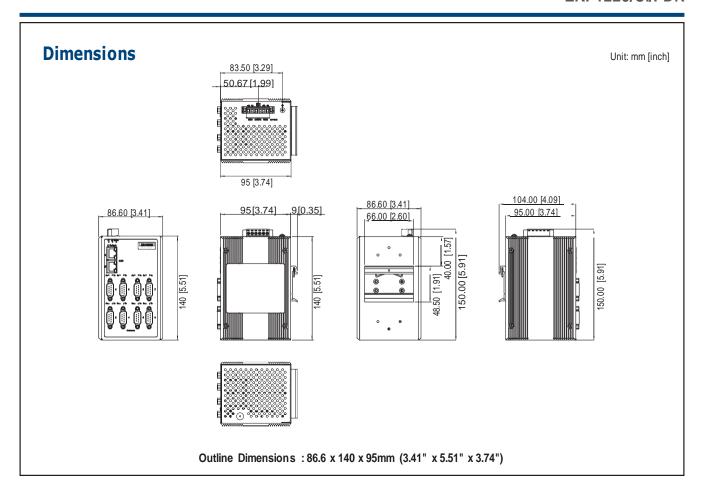
"CI" & "I" mode: -40 ~ 70°C (-40 ~ 158°F)

• Storage Temperature -40 ~ 85°C (-40 ~ 185°F)

• Operating Humidity 10 ~ 95% RH

Regulatory Approvals

EMC CE, FCC Part 15 Subpart B (Class A)



Ordering Information

• EKI-1228-DR 8-port Modbus Gateway

• EKI-1228I-DR 8-port Modbus Gateway with Wide Temp.

• EKI-1228 CI-DR 8-port Modbus Gateway with Wide Temp. & Isolation

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