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
- Support up to 16 connections on each serial port under Modbus Master mode and 128 sessions under Modbus Slave mode.
- Software selectable RS-232/422/485 communication (RS-422/485 for "CI" 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. power ports with line to line 2 KV, and line 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/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
 Speed
 No. of Ports
 10/100 Mbps
 2

Protection
 Built-in 1.5 KV magnetic isolation

8-pin RJ45

Serial Communications

Port Connector

 Port Type
 RS-232/422/485, software selectable ("CI" mode supports RS-422/485)

No. of Ports
 Port Connector
 Data Bits
 Stop Bits
 1, 1.5, 2

Parity None, Odd, Even, Space, Mark
 Flow Control XON/XOFF, RTS/CTS, DTR/DSR
 Baud Rate 50 bps ~ 921.6 kbps, any baud rate setting

Serial Signals
 RS-232: TXD, RXD, CTS, RTS, DTR, DSR, DCD, RI,
CND.

GNI

RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, GND

Protection
 Built-in 15 KV ESD for all signals

Software

Utility Software

Operation Modes

OS Support Windows XP/7/8.1/10, Windows Server

2003/2008/2012/2016/2019, and Linux Advantech EKI Device Configuration Utility Modbus RTU Master/Slave mode

Modbus ASCII Master/Slave mode
Configuration
Windows Utility, Web Browser

Protocols
 ICMP, IP, TCP, UDP, BOOTP, DHCP, Auto IP, 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 Terminal block
 Consumption EKI-1228/I: 5W EKI-1228CI: 6W

Environment

• Operating Temperature EKI-1228-DR: $-10 \sim 60$ °C (14 ~ 140 °F)

"CI" & "I" mode: $-40 \sim 70^{\circ}$ C ($-40 \sim 158^{\circ}$ F)

• Storage Temperature $-40 \sim 85$ °C $(-40 \sim 185$ °F)

• Operating Humidity 10 ~ 95% RH

Regulatory Approvals

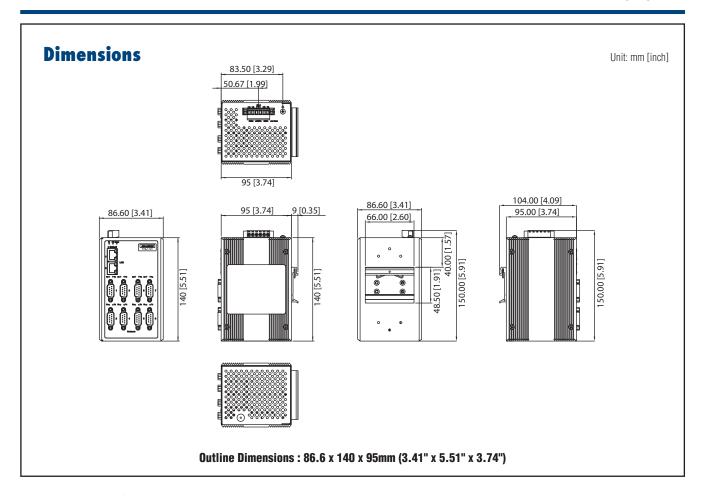
EMC CE, FCC Part 15 Subpart B (Class A)

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Ordering Information

■ EKI-1228-DR 8-port Modbus Gateway

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

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

