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"
- 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
- 'CI' 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 networkedbased 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 Port Connector DB9 male Data Bits 5, 6, 7, 8 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,

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

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

ICMP, IP, TCP, UDP, BOOTP, DHCP, Auto IP, HTTP, Protocols

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

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

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

Environment

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

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

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

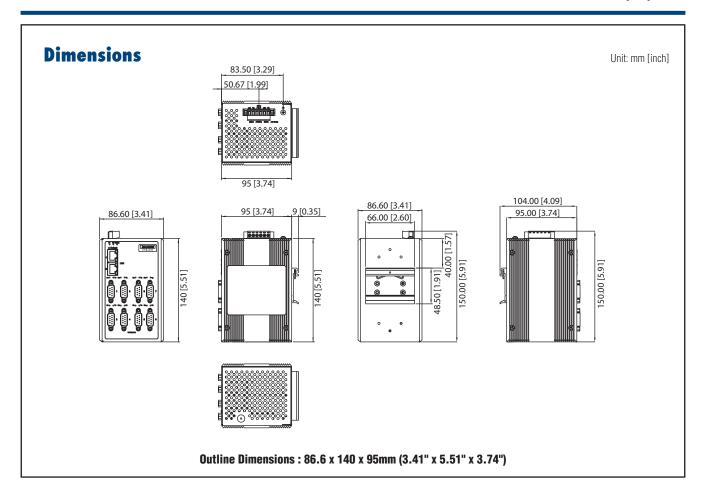
Operating Humidity 10 ~ 95% RH

Regulatory Approvals

CE, FCC Part 15 Subpart B (Class A)

Port to Port Isolation ('CI' models)

 Serial to Ethernet 2 kV Serial to Power 2 kV Ethernet to Power 1.5 kV



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