EKI-1228-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 Client mode and 128 sessions under Modbus Server mode
- 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
- 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





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 client or server operation mode for each serial port. They not only allow an Ethernet Client to control serial servers, but also allow serial Client to control Ethernet servers.

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

No. of Ports Port Connector DB9 male Data Bits 5, 6, 7, 8 1, 1.5, 2 Stop Bits

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

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 Client/Server mode

Modbus ASCII Client/Server 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 900g

General

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

Serial: Tx Rx

Power Requirements

 $12 \sim 48 V_{DC}$, redundant dual inputs Input

Terminal block Connector

Consumption 5W

Environment

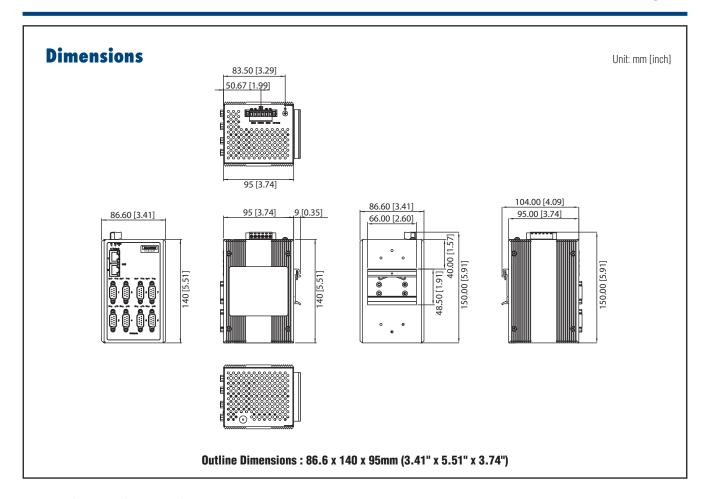
Operating Temperature EKI-1228-DR: -10 ~ 60°C (14 ~ 140°F)

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-AE 8

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