

## Feafures

- Provides $2 \times 10 / 100$ 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 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
- Speed
- No. of Ports
- Port Connector
- Protection


## Serial Communications

- Port Type
- No. of Ports
- Port Connector
- Data Bits
- Stop Bits
- Parity
- Flow Control
- Baud Rate
- Serial Signals
- Protection


## Software

- OS Support
- Utility Software
- Operation Modes
- Configuration
- Protocols

IEEE 802.3, IEEE 802.3u
10/100 Mbps
2
8-pin RJ45
Built-in 1.5 KV magnetic isolation

RS-232/422/485, software selectable
("Cl" mode supports RS-422/485)
8
DB9 male
5, 6, 7, 8
1, 1.5, 2
None, Odd, Even, Space, Mark
XON/XOFF, RTS/CTS, DTR/DSR
50 bps ~ 921.6 kbps, any baud rate setting
RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND
RS-422: TxD+, TxD-, RxD+, RxD-, GND
RS-485: Data+, Data-, GND
Built-in 15 KV ESD for all signals

## Mechanics

- Dimensions (W x H x D) $86.6 \times 140 \times 95 \mathrm{~mm}\left(3.41^{\prime \prime} \times 5.51^{\prime \prime} \times 3.74^{\prime \prime}\right)$
- 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
$12 \sim 48 \mathrm{Voc}$, redundant dual inputs
- Connector
- Consumption
block
EKI-1228/: 5W
EKI-1228CI: 6W


## Environment

- Operating Temperature EKI-1228-DR: $-10 \sim 60^{\circ} \mathrm{C}\left(14 \sim 140^{\circ} \mathrm{F}\right)$
"CI" \& "I" mode: - $40 \sim 70^{\circ} \mathrm{C}\left(-40 \sim 158^{\circ} \mathrm{F}\right)$
- Storage Temperature $\quad-40 \sim 85^{\circ} \mathrm{C}\left(-40 \sim 185^{\circ} \mathrm{F}\right)$
- Operating Humidity $10 \sim 95 \%$ RH
- Regulatory Approvals
- EMC

CE, FCC Part 15 Subpart B (Class A)

32-bit/64-bit Windows XP/Nista/7/8/8.8.1/10, Windows
Server 2003/20008//2000 R2//2012/2012 R2
Advantech EKI Device Configuration Utility
Modbus RTU Master/Slave mode
Modbus ASCCII Master/Slave mode
Windoww Utility, Web Browser
ICMP, IP, TCP UDP, BOOTP, DHCP, Auto IP, HTTP,
DNS, SMTP, ARP, NTP


## Ordering Information

- EKI-1228-DR
- EKI-1228I-DR
- EKI-1228CI-DR

8-port Modbus Gateway
8 -port Modbus Gateway with Wide Temp.
8 -port Modbus Gateway with Wide Temp. \& Isolation

