EKI-1242EIMS EKI-1242IEIMS



Modbus RTU/TCP to Ethernet/IP Fieldbus Gateway



Features

- · Supports dual power input for power redundancy
- Seamlessly integrate Modbus RTU/TCP and Ethernet/IP communication protocols
- · Modbus master mode supports up to 64 connections
- · Mountable via DIN rail and wall mount
- · Designed for protocol extensibility and adaption
- Built-in real-time diagnostics to increase device management efficiency
- "I" models support a wide operating temperature



Introduction

The EKI-1242EIMS industrial protocol gateway provides seamless communication between Fieldbus and Ethernet devices, supporting a range of protocols. Integrating new and existing Modbus TCP devices to EtherNet/IP networks, this gateway can collect data and perform data exchange between Modbus TCP to EtherNet/IP. Simple and cost-effective, the EKI-1242EIMS brings the advantage of fast I/O data transfer between devices while delivering high performance with protocol extensibility and adaptation.

Specifications

Ethernet Communication

Protocols
EtherNet/IP, Modbus TCP

• Number of Ports 4

• **Speed** 10/100 Mbps, Auto MDI/MDIX

• 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

Protocol Modbus RTU
PortConnector 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
Baud Rate 50 bps ~ 921.6 kbps

Serial Signals
RS-232: TxD, RxD, CTS, RTS, DCD, RI, GND

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

RS-485: Data+, Data-, GND

Software

Modbus RTU/TCP

Mode Master

Functions Support 1,2,3,4,5,6,15,16,23 Max. Number of Connections 64 connections

EtherNet/IP

Class Adapter

Max. Number of Connections 32 explicit messaging, 5 implicit messaging

Max. Total I/O Data Size Input: 496 bytes

Output: 496 bytes

General

• LED Indicators System: power, system status, protocol status

LAN: speed, link/active, error

Reboot Trigger Built-in WDT

MicroSD Card
Configuration backup and restore

Mechanics

• Dimensions (W x H x D) 42 x 140 x 95 mm (1.66" x 5.52" x 3.75")

Enclosure
Metal with solid mounting hardware

Mounting DIN rail, wallWeight 0.497 Kg

Power Requirements

• Power Input $12 \sim 48 \text{ V}_{DC}$, redundant dual inputs

Power Connector Terminal block
Power Consumption 5.2 W

Environment

Operating Temperature -10 ~ 60 °C (14 ~ 140 °F)

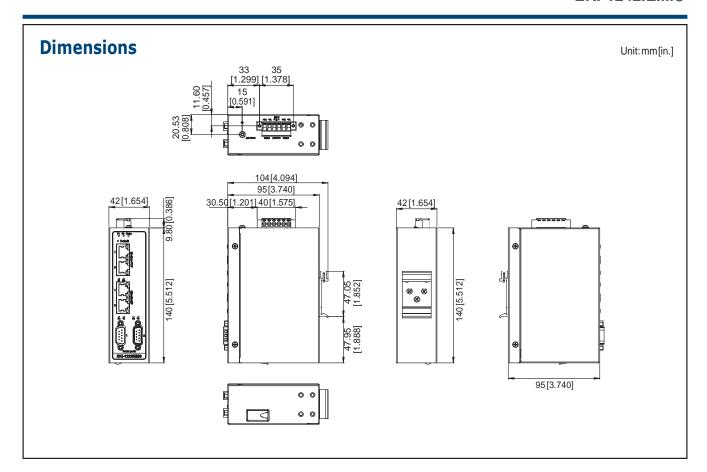
"I" models: -40 ~ 75 °C (-40 ~ 167 °F)

• 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)



Ordering Information

- EKI-1242EIMS
- Modbus RTU/TCP to EtherNet/IP Fieldbus Gateway
- EKI-1242IEIMS

Modbus RTU/TCP to EtherNet/IP Fieldbus Gateway with Wide Operating Temperature

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