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. Not space 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.

5 C € FCC

Specifications

Ethernet Communication

Protocols

EtherNet/IP, Modbus TCP

Built-in 1.5 kV magnetic isolation

None, odd, even, space, mark

RS-485: Data+, Data-, GND

1, 2, 3, 4, 5, 6, 15, 16, 23

Input: 496 bytes

Output: 496 bytes

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

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

XON/XOFF, RTS/CTS

50 bps ~ 921.6 kbps

8-pin RJ45

- Number of Ports 4 Speed 10/100 Mbps, Auto MDI/MDIX
- Connector
- Protection

Serial Communications

RS-232/422/485, software-selectable Port Type 2

> Modbus RTU DB9 male

5.6.7.8

1.1.5.2

Master

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

Modbus RTU/TCP

Mode Functions Support Max. Number of Connections

64 connections EtherNet/IP Class Adapter 32 explicit messaging, 5 implicit messaging

Max. Number of Connections Max. Total I/O Data Size

General

- LED Indicators
- Reboot Trigger
- MicroSD Card

Mechanics

- Dimensions (W x H x D) 42 x 140 x 95 mm (1.66" x 5.52" x 3.75")
 - Metal with solid mounting hardware

LAN: speed, link/active, error

Configuration backup and restore

Built-in WDT

DIN rail, wall

System: power, system status, protocol status

- Enclosure Mounting
- Weight .

Power Requirements

- Power Input
- **Power Connector**
- Power Consumption

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

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

- 0.497 Kg 12 ~ 48 V_{DC}, redundant dual inputs

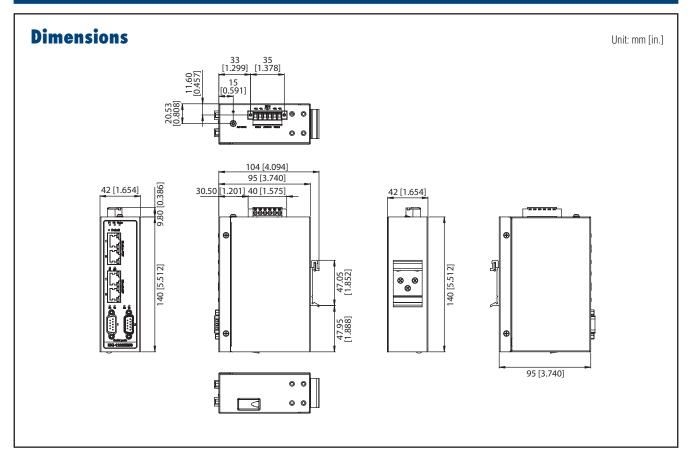
- Operating Humidity
- - **Regulatory Approvals**

Environment

- Operating Temperature -10 ~ 60 °C (14 ~ 140 °F)
- Storage Temperature
- - Terminal block 5.2 W

- -40 ~ 85 °C (-40 ~ 185 °F) 10~95% RH

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Ordering Information

- EKI-1242EIMS
- EKI-1242IEIMS

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

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