# EKI-1242EIMS EKI-1242IEIMS

# Modbus RTU/TCP to EtherNet/IP Fieldbus Gateway



# **Features**

- Supports dual power input for power redundancy
- Seamless integrate Modbus RTU/TCP and EtherNET/IP communication
- Modbus Master mode supports 64 connections
- Mounts on DIN-rail and Wall mount
- Designed for protocol extensibility and adaption
- Built-in real time diagnostic to increase highly efficiency of device management
- 'I' models support a wide operating temperature

# Introduction

# 5 **⊆** C € FCC

The EKI-1242EIMS Industrial Fieldbus gateway providing seamless communication between Fieldbus and Industrial Ethernet and supports different protocol devices and integrates new and existing Modbus RTU/TCP devices to the EtherNet/IP network. To collect data and exchange data between Modbus RTU/TCP to EtherNet/IP. EKI-1242EIMS is a simple and cost-effective way to bring the advantages of fast data transmissions between different devices.

# **Specifications**

#### **Ethernet Communication**

Protocols

EtherNet/IP, Modbus TCP 4

Built-in 1.5 KV magnetic isolation

8-pin RJ45

Modbus RTU DB9 male

5.6.7.8

1.1.5.2

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

#### Serial Communications

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

# EtherNet/IP Class

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

Master 1, 2, 3, 4, 5, 6, 15, 16, 23 64 connections

RS-485: Data+, Data-, GND

None, Odd, Even, Space, Mark

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

Adapter 32 explicit messaging, 5 implicit messaging Input: 496 bytes Output: 496 bytes

### 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 DIN-rail. Wall

Built-in WDT (watchdog timer)

Configuration backup and restore

System: Power, Syste, Protocol Status LAN: Speed, Link/Active, Error

- Mounting
- Weight .

Enclosure

#### **Power Requirements**

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

#### **Environment**

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

#### ' l' models: -40 ~ 75 °C (-40 ~ 167 °F) -40 ~ 85 °C (-40 ~ 185 °F) 10~95% RH

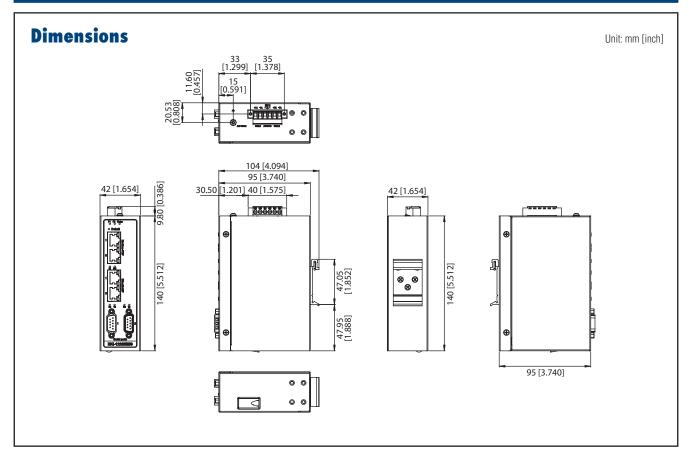
### **Regulatory Approvals**

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

12 ~ 48 V<sub>DC</sub>, redundant dual inputs Terminal block 5.2 W

0.592 Kg

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# **Ordering Information**

- EKI-1242EIMS
- EKI-1242IEIMS

Modbus RTU/TCP to EtherNet/IP Fieldbus Gateway Modbus RTU/TCP to EtherNet/IP Protocol Gateway with wide operating temperature