E**KI-1242ECM**S E**KI-1242IECMS**

Modbus RTU/TCP to EtherCAT Fieldbus Gateway



Features

- Supports dual power input for power redundancy
- Seamlessly integrate Modbus RTU/TCP and EtherCAT 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 enhance device management efficiency
- "I" models support a wide operating temperature

Introduction

5 € FCC

The EKI-1242ECMS industrial fieldbus gateway provides seamless communication between Fieldbus and Ethernet devices with its support for different protocol devices, thereby being capable of integrating new and existing Modbus RTU/TCP devices into EtherCAT networks. The EKI-1242ECMS is a simple and cost-effective way to bring the advantage of fast I/O data transfer between devices.

Specifications

Ethernet Communication

- Protocols
- Number of Ports
- Speed
- Connector
- Protection

Serial Communications

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

8-pin RJ45

Modbus RTU

DB9 male

5.6.7.8

1, 1.5, 2

EtherCAT, Modbus TCP

10/100 Mbps, auto MDI/MDIX

Built-in 1.5 kV magnetic isolation

None, odd, even, space, mark

XON/XOFF, RTS/CTS

50 bps ~ 921.6 kbps

- No. of Ports
- Protocol
- Port Connector
- Data Bits
- Stop Bits
- Parity
- Flow Control Baud Rate
- Serial Signals RS-232: TxD, RxD, CTS, RTS, DCD, RI, GND RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, GND

Slave

Software

Modbus RTU/TCP

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

- EtherCAT
- Туре
- Max. Total I/O Data Size (SDO&PDO objects) Input 512 bytes
- Output 512 bytes FFMMU Channels 4

General

- LED Indicators
- Reboot Trigger
- MicroSD Card

Mechanics

- Dimensions (W x H x D)

LAN: speed, link/active, error

Configuration backup and restore

System: power, system status, protocol status

- Enclosure Mounting
- Weight

Power Requirements

- Power Input
- **Power Connector**
- Power Consumption 5.2 W

Environment

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

"I" models: -40 ~ 75 °C (-40 ~ 167 °F) -40 ~ 85 °C (-40 ~ 185 °F)

10~95% RH

Regulatory Approvals

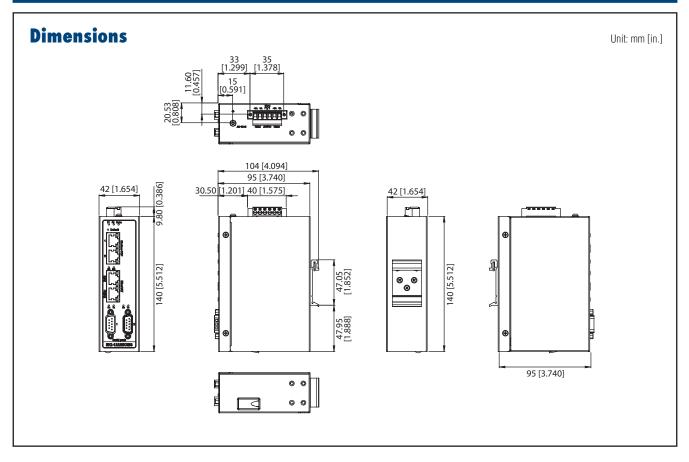
- EMC
- CE, FCC Part 15 Subpart B (Class A)

42 x 140 x 95 mm (1.66" x 5.52" x 3.75") Metal with solid mounting hardware DIN rail, wall 0.497 Kg $12 \sim 48 V_{\text{DC}}$, redundant dual inputs

Terminal block

Built-in WDT

EKI-1242ECMS EKI-1242IECMS



Ordering Information

- EKI-1242ECMS
- EKI-1242IECMS

Modbus RTU/TCP to EtherCAT Fieldbus Gateway Modbus RTU/TCP to EtherCAT Fieldbus Gateway with Wide Operating Temperature

Mouser Electronics

Authorized Distributor

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