EKI-1242IOUMS

Modbus TCP/RTU to OPC UA Fieldbus Gateway



Features

- Supports dual power input for power redundancy
- Seamless integrate Modbus RTU/TCP and OPC UA communication
- Modbus Client 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

The EKI-1242IOUMS provides seamless communication between fieldbus and industrial automation developed and supports different protocol devices integrating new and existing Modbus RTU/TCP devices with OPC-UA networks.

Specifications

Ethernet Communication

Protocols
 OPC UA, 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 2
 Protocol Modbus RTU
 Port Connector 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 Client

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

OPC UA

Type Server
Max. Number of Connections 128 connections

General

LED Indicators System: Power, System Status, Protocol status

LAN: Speed, Link/Active, Error

• Reboot Trigger Built-in WDT (watchdog timer)

• 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 ~ 48 V_{DC}, redundant dual inputs

Power Connector Terminal block
 Power Consumption 5.2 W

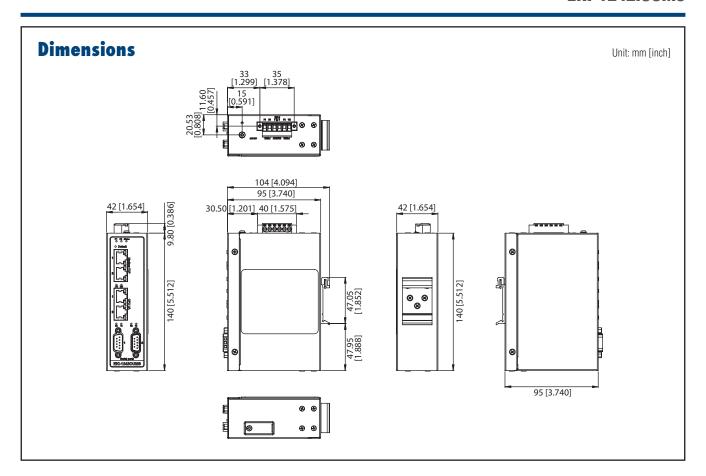
Environment

Operating Temperature -40 ~ 75 °C (-40 ~ 167 °F)
 Storage Temperature -40 ~ 85 °C (-40 ~ 185 °F)

• Operating Humidity $10 \sim 95\%$ RH

Regulatory Approvals

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



Ordering Information

• **EKI-1242IOUMS-A** Modbus TCP/RTU to OPC UA Fieldbus Gateway with wide operating temperature