**Introduction**

The EKI-1242OUMS 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
- **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: Tx+, Tx-, Rx+, Rx-, 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
- **OPC UA Type**: Server
  - Max. Number of Connections: 128

**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, Wall
- **Weight**: 0.497 Kg

**Power Requirements**
- **Power Input**: 12 ~ 48 Vdc, redundant dual inputs
- **Power Connector**: Terminal block
- **Power Consumption**: 5.2 W

**Environment**
- **Operating Temperature**: -10 ~ 60 °C (14 ~ 140 °F)
- **Storage Temperature**: -40 ~ 75 °C (-40 ~ 167 °F)
- **Operating Humidity**: 10 ~ 95% RH

**Regulatory Approvals**
- **EMC**: CE, FCC Part 15 Subpart B (Class A)

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**Features**
- Supports dual power input for power redundancy
- Seamless integrate Modbus RTU/TCP and OPC UA 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 range
Dimensions

Ordering Information

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