# EKI-1242IEIMS

# **Industrial Fieldbus Gateway**



## **Features**

- Supports dual power input for power redundancy
- Converts Modbus RTU/TCP to PROFINET, OPC UA, or EtherNet/IP
- 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-1242IEIMS industrial protocol gateway provides seamless communication between Fieldbus and Ethanes, devices, supporting a range of protocols. Integrating new and existing Modbus TCP devices to PROFINET, OPC UA or EtherNet/IP networks, this gateway can collect data vid perform data exchange between Modbus TCP to PROFINET, OPC UA or EtherNet/IP. Simple and cost-effective, the EKI-1242IEIMS brings the advantage of fast I/O data tra, sfer between devices while delivering high performance with protocol extensibility and adaptation.

# **Specifications**

#### **Ethernet Communication**

Protocols EtherNet/IP, OPC UA, PROFINET, Modbus TCF

Number of Ports

Speed 10/100 Mbps, Auto MDI/MDIX

Connector 8-pin RJ45

 Protection Built-in 1.5 kV magnetic isolal on

### **Serial Communications**

Port Type RS-232/422/485, software-searctable

No. of Ports

Protocol Modbus PTU Port Connector DB9 male Data Bits 5, 6, 7, 8 1, 1.5, 2 Stop Bits

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

OPC UA: 1400

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 EtherNet/IP: 64 PROFINET: 64

EtherNet/IP

Class Adapter

Max. Number of Connections 32 explicit messaging, 5 implicit messaging

Max. Total I/O Data Size Input: 496 bytes

Output: 496 bytes

#### **PROFINET**

Type IO-Device Slot 64

 Cyclic data exchange 8 ms cycle time Max. Total I/O Data Size Input: 512 bytes

Output: 512 bytes

#### **OPC UA**

Type Server Max. Number of Connections 128 connections Max. Total I/O Data Size Input: 8192 bytes

Output: 8192 bytes

#### General

 LED Indicators System: power, system status, protocol status

LAN: speed, link/active, error

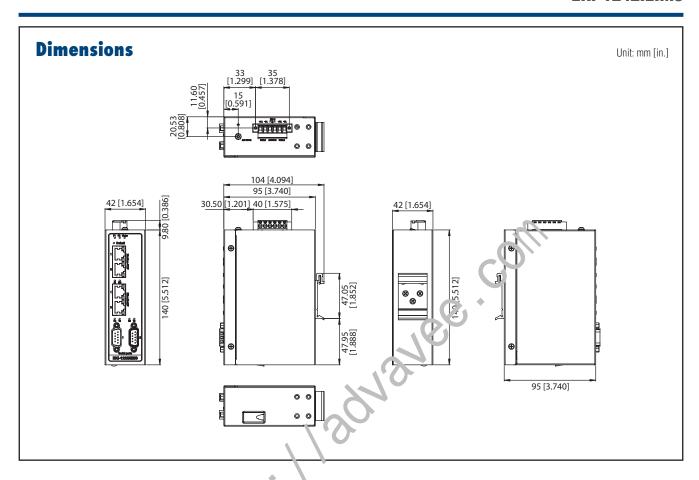
 Reboot Trigger Built-in WDT

 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") Metal with solid mounting hardware Enclosure

Mounting DIN rail, wall Weight 0.497 Kg



## **Power Requirements**

 $12 \sim 48 \ V_{DC}$ , redundar dual inputs Power Input Power Connector Terminal block

 Power Consumption 5.2 W

#### **Environment**

Operating Temperature -40 ~ 75 ° C (-40 ~ 137 ° F)
Storage Temperature -40 ~ 85 ° C (-4√ ~ 185 ° F)
Operating Humidity 10 ~ 95% Rr.

## **Regulatory Approvals**

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

# **Ordering Information**

■ EKI-1242IEIMS-A Industrial Fieldbus Gateway