# EKI-1242BNMS EKI-1242IBNMS

# Modbus RTU/TCP to BACnet IP/MSTP Fieldbus Gateway



#### **Features**

- Supports dual power input for power redundancy
- Seamless integrate Modbus RTU/TCP and BACnet IP/MSTP 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

The EKI-1242BNMS Industrial Fieldbus gateway provides seamless communication between Fieldbus and Industrial Ethernet and supports different protocol devices integrating new and existing Modbus RTU/TCP devices with BACnet IP/MSTP networks. EKI-1242BNMS is a simple and cost-effective way to bring the advantage of fast I/O data transfers between devices.

### **Specifications**

#### **Ethernet Communication**

Protocols
 BACnet IP, Modbus TCP

Number of Ports

■ **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 Ports2

Protocol
 BACnet MSTP, Modbus RTU

Port Connector
 Data Bits
 Stop Bits
 Data Bits
 Data

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

lode Maste

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

BACnet IP/MSTP

Class BACnet IP/Slave, BACnet MSTP/Master

Support objects AI, AO, BI, BO
Max object instance 200 objects each type

General

LED Indicators
 System: Power, System Status, Protocol status

LAN: Speed, Link/Active, Error

Reboot Trigger
 MicroSD Card
 Built-in WDT (watchdog timer)
 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
 24 V<sub>AC</sub>, redundant dual inputs

Power Connector Terminal blockPower Consumption 7.2W

**Environment** 

• Operating Temperature  $-10 \sim 60 \,^{\circ}\text{C} \, (14 \sim 140 \,^{\circ}\text{F})$ 

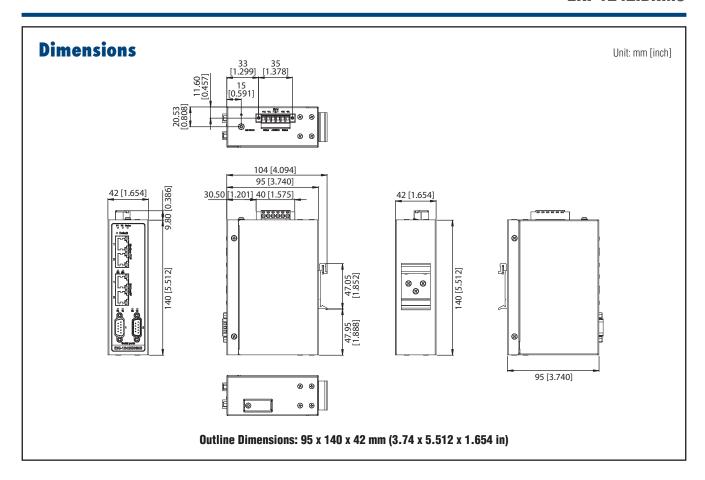
' I' models:  $-40 \sim 75$  °C ( $-40 \sim 167$  °F)

• Storage Temperature  $-40 \sim 85$  °C  $(-40 \sim 185$  °F)

• Operating Humidity 10 ~ 95% RH

**Regulatory Approvals** 

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



## **Ordering Information**

- **EKI-1242BNMS** Modbus RTU/TCP to BACnet Fieldbus Gateway
- **EKI-1242IBNMS** Modbus RTU/TCP to BACnet Fieldbus Gateway with wide operating temperature

## **Mouser Electronics**

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## Advantech:

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