

# EKI-1242NR-A

# EKI-1242INR-A

## Node-RED Fieldbus Gateway



### Features

- Supports dual power input for power redundancy
- Node-RED flow editor to wire together hardware devices and various IoT services
- Mountable via DIN rail and wall mount
- Designed for protocol extensibility and adaption
- "I" models support a wide operating temperature

### Introduction

The EKI-1242NR provides graphical, browser-based, drag-and-drop Node-RED flow editor to wire together hardware devices and various IoT services.

### Specifications

#### Ethernet Communication

- **Protocols** Node-RED
- **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
- **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

- **Support Node-RED version: v0.17.5**
- **Easy to manage customized node modules**
- **Support export function for node modules and flows**

#### 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 V<sub>DC</sub>, redundant dual inputs
- **Power Connector** Terminal block
- **Power Consumption** 5.2 W

#### Environment

- **Operating Temperature** -10 ~ 60 °C (14 ~ 140 °F)  
'I' models: -40 ~ 75 °C (-40 ~ 167 °F)
- **Storage Temperature** -40 ~ 85 °C (-40 ~ 185 °F)
- **Operating Humidity** 10 ~ 95% RH

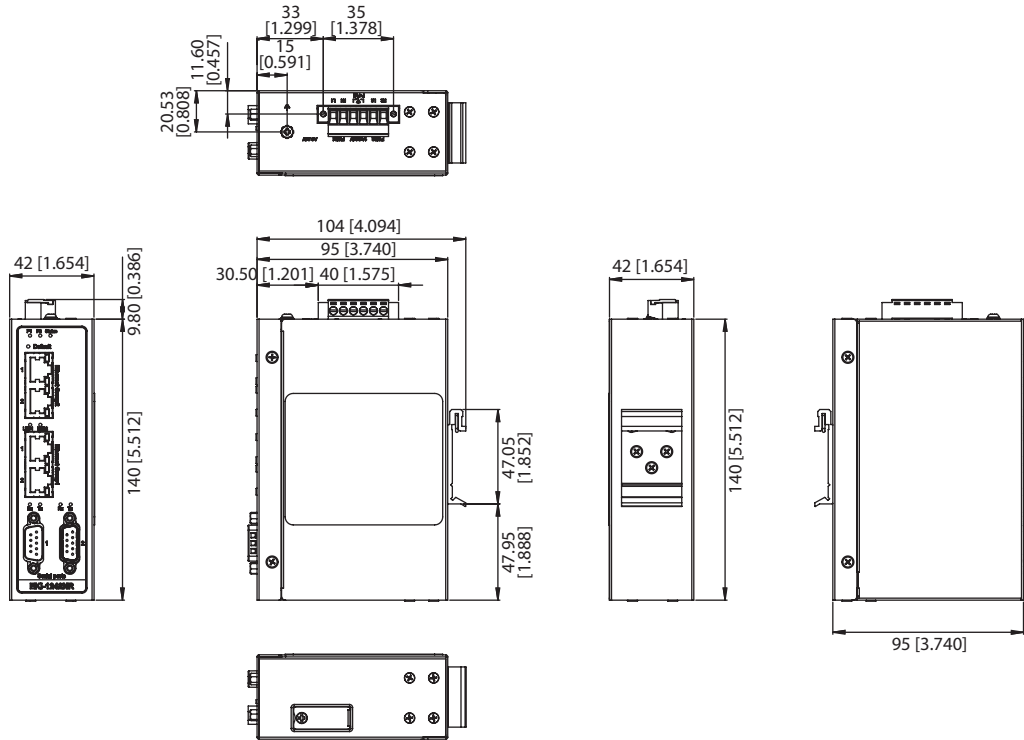
#### Regulatory Approvals

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

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## Dimensions

Unit: mm [inch]



## Ordering Information

- EKI-1242NR-A Node-RED Fieldbus Gateway
- EKI-1242INR-A Node-RED Fieldbus Gateway with wide operating temperature