EKI-1242INR

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

CE FCC

Introduction

The EKI-1242INR 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_{DC}, redundant dual inputs
- **Power Connector** — Terminal block
- **Power Consumption** — 5.2 W
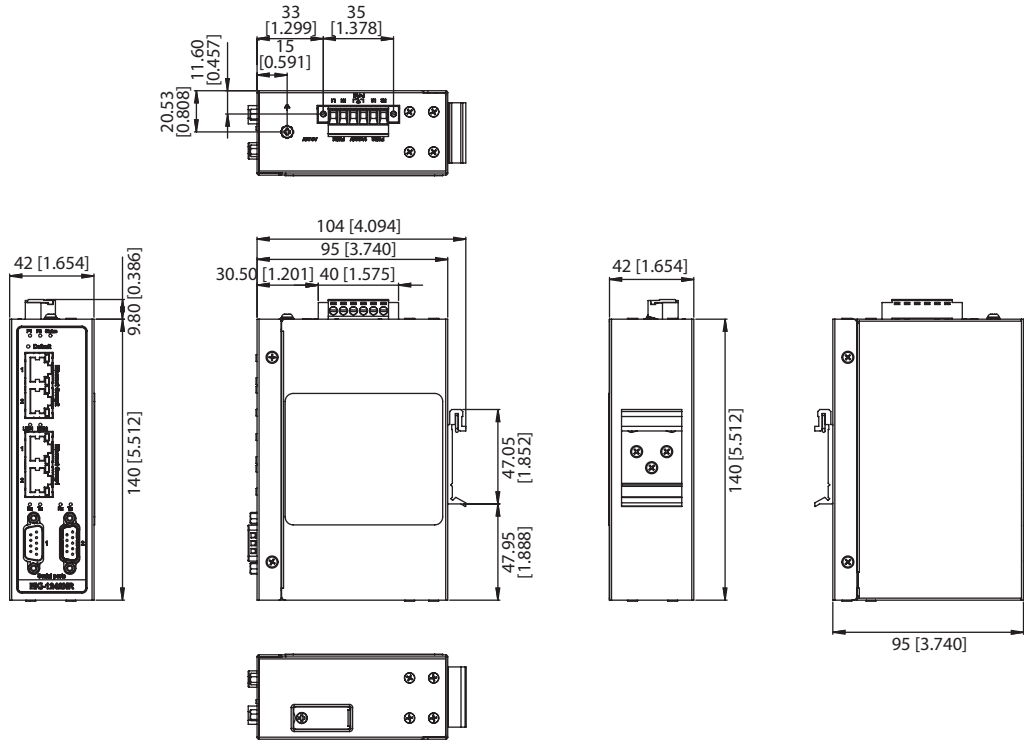
Environment

- **Operating Temperature** — -40 ~ 75 °C (-40 ~ 167 °F)
- **Storage Temperature** — -40 ~ 85 °C (-40 ~ 185 °F)
- **Operating Humidity** — 10 ~ 95% RH

Regulatory Approvals

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

Dimensions

Unit: mm [inch]

33 [1.299] 35 [1.378]
15 [0.591]
11.60 [0.457]
20.53 [0.808]

42 [1.654]
9.80 [0.386]
140 [5.512]

104 [4.094]
95 [3.740]
30.50 [1.201] 40 [1.575]
47.05 [1.852]
47.95 [1.888]

42 [1.654]
140 [5.512]

95 [3.740]

Ordering Information

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