EKI-1242PNMS EKI -1242IPNMS

Modbus RTU/TCP to PROFINET Fieldbus Gateway



Features

- Supports dual power input for power redundancy
- Seamless integrate Modbus RTU/TCP and PROFINET 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-1242PNMS 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 PROFINET networks. EKI-1242PNMS is a simple and cost-effective way to bring the advantage of fast I/O data transfers between devices.

Specifications

Ethernet Communication

Protocols
PROFINET, 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 Ports 2

Protocol Modbus RTU
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

Modbus RTU/TCP

Node Maste

Functions Support 1, 2, 3, 4, 5, 6, 15, 16, 23

Max. Number of Connections 64 connections

PROFINET

Type Slave Slot 64

Cyclic data exchange 8 ms cycle time

General

LED Indicators
System: Power, Syste, 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 0.592 Kg

Power Requirements

Power Input
12 ~ 48 V_{DC}, redundant dual inputs

Power Connector Terminal block

■ **Power Consumption** 5.2 W

Environment

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

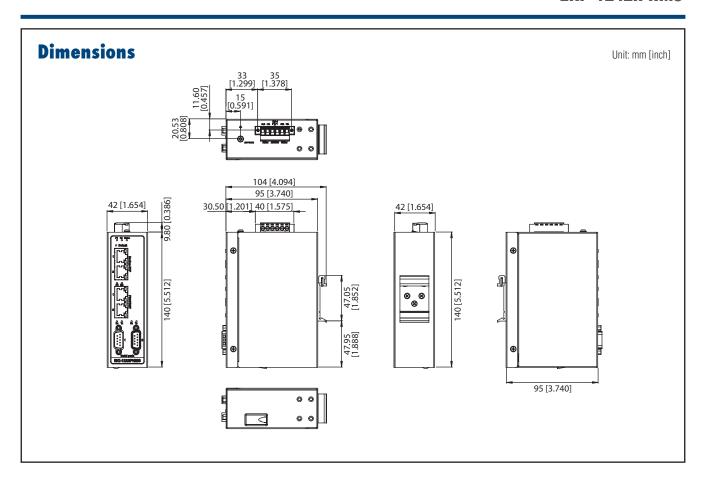
' I' models: -40 ~ 75 °C (-40 ~ 167 °F)

• 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-1242PNMS** Modbus RTU/TCP to PROFINET Fieldbus Gateway
- **EKI-1242IPNMS** Modbus RTU/TCP to PROFINET Fieldbus Gateway with wide operating temperature