EKI-1242PNMS EKI-1242IPNMS

Modbus RTU/TCP to PROFINET Fieldbus Gateway



Features

- · Supports dual power input for power redundancy
- Seamlessly integrate Modbus RTU/TCP and PROFINET communication
- Modbus master mode supports up to 64 connections
- Mountable via DIN rail and wall mount
- Designed for protocol extensibility and adaption
- Built-in real-time diagnostics to enhance device management efficiency
- "I" models support a wide operating temperature



Introduction

The EKI-1242PNMS industrial protocol gateway provides seamless communication between Fieldbus and Ethernet devices, supporting a range of protocols. Integrating new and existing Modbus TCP devices to PROFINET networks, the EKI-1242PNMS is a cost-effective and simple way to bring the advantage of fast I/O data transfer between devices while delivering high performance with protocol extensibility and adaptation.

Specifications

Ethernet Communication

Protocols PROFINET, Modbus TCP

Number of Ports

10/100 Mbps, Auto MDI/MDIX Speed

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 1, 1, 5, 2 Stop Bits

None, Odd, Even, Space, Mark Parity Flow Control XON/XOFF, RTS/CTS

 Baud Rate 50 bps ~ 921.6 kbps

RS-232: TxD, RxD, CTS, RTS, DCD, RI, GND Serial Signals RS-422: TxD+, TxD-, RxD+, RxD-, GND

RS-485: Data+, Data-, GND

Software

Modbus RTU/TCP

Mode Master

Functions Support 1, 2, 3, 4, 5, 6, 15, 16, 23 Max. Number of Connections 64 connections

PROFINET

Slave Type Slot Cyclic data exchange 8 ms cycle time

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") Metal with solid mounting hardware **Enclosure**

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**

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

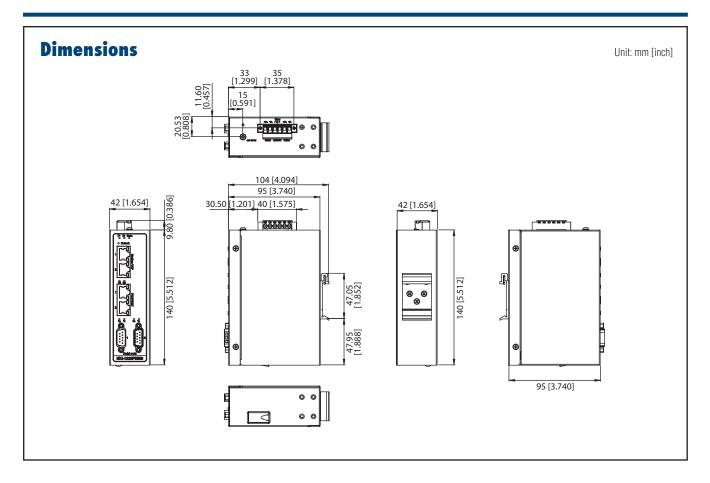
EMC CE, FCC Part 15 Subpart B (Class A)

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Ordering Information

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

