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

8-pin RJ45 Connector

 Protection Built-in 1.5 KV magnetic isolation

Serial Communications

 Port Type RS-232/422/485, software selectable

No. of Ports

Modbus RTU Protocol DB9 male Port Connector · 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

Mode

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

PROFINET

Type Slave 64 Slot

Cyclic data exchange 8 ms cycle time

General

 LED Indicators System: Power, System Status, Protocol status

LAN: Speed, Link/Active, Error Built-in WDT (watchdog timer)

Reboot Trigger 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 -10 ~ 60 °C (14 ~ 140 °F)

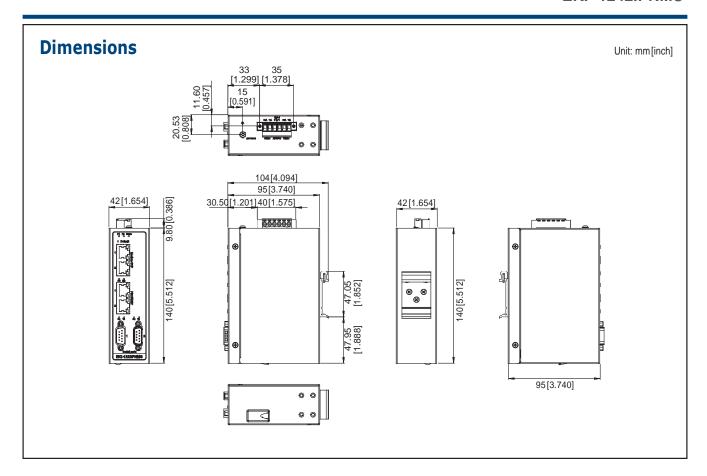
' I' models: -40 ~ 75 °C (-40 ~ 167 °F)

 Storage Temperature -40 ~ 85 °C (-40 ~ 185 °F)

· Operating Humidity 10 ~ 95% RH

Regulatory Approvals

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



Ordering Information

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

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