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 protocols
- 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

5 C € FCC

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
- Number of Ports
- Speed
- Connector
- Protection

Serial Communications

RS-232/422/485, software selectable Port Type 2

8-pin RJ45

Modbus RTU

DB9 male

5, 6, 7, 8

1.1.5.2

4

PROFINET, Modbus TCP

10/100 Mbps, Auto MDI/MDIX

Built-in 1.5 KV magnetic isolation

None, Odd, Even, Space, Mark

RS-232: TxD, RxD, CTS, RTS, DCD, RI, GND

XON/XOFF, RTS/CTS

50 bps ~ 921.6 kbps

- No. of Ports
- Protocol
- Port Connector
- Data Bits
- Stop Bits
- Parity
- Flow Control
- Baud Rate
- Serial Signals
- RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, GND

Software

 Modbu 	s RTU/TCP
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Mode Master Functions Support 1, 2, 3, 4, 5, 6, 15, 16, 23 Max. Number of Connections 64 connections

PROFINET

Туре	Slave
Slot	64
Cyclic data exchange	8 ms cycle time

All product specifications are subject to change without notice.

General

- LED Indicators
- Reboot Trigger
- MicroSD Card

Mechanics

- Dimensions (W x H x D) 42 x 140 x 95 mm (1.66" x 5.52" x 3.75")
- Enclosure
- Mounting - Weight
- **Power Requirements**
- Power Input
- **Power Connector**
- **Power Consumption**

Environment

- Operating Temperature -10 ~ 60 °C (14 ~ 140 °F)
 - - ' I' models: -40 ~ 75 °C (-40 ~ 167 °F) -40 ~ 85 °C (-40 ~ 185 °F)

System: Power, System Status, Protocol status

LAN: Speed, Link/Active, Error

Built-in WDT (watchdog timer)

Configuration backup and restore

Metal with solid mounting hardware

12 ~ 48 V_{DC}, redundant dual inputs

DIN-rail, Wall

Terminal block

0.497 Kg

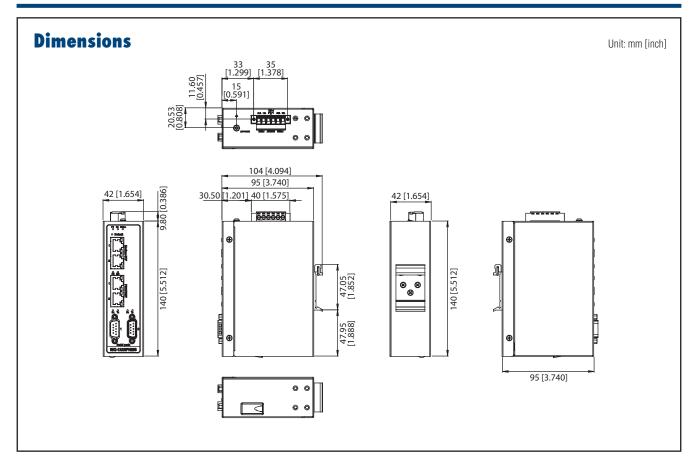
5.2 W

- Storage Temperature Operating Humidity
 - 10~95% RH

Regulatory Approvals

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

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Ordering Information

- EKI-1242PNMS
- EKI-1242IPNMS

Modbus RTU/TCP to PROFINET Fieldbus Gateway Modbus RTU/TCP to PROFINET Fieldbus Gateway with wide operating temperature