

# EKI-1221IPNMB

## Modbus TCP to PROFINET Protocol Gateway



### Features

- Support dual power input for power redundancy
- Integration of Modbus TCP and PROFINET Network Communication
- Modbus TCP Master mode support 64 connections
- Mounts on DIN-rail and Wall mount
- 'I' models support a wide operating temperature

### Introduction

The EKI-1221IPNMB Industrial Protocol gateway providing seamless communication between Fieldbus and Industrial Ethernet and supporting different protocol devices to communicate. Integrating new and existing Modbus TCP devices to PROFINET network. To collect data and exchange data between Modbus TCP to PROFINET. Simple and cost-effective way to bring the advantage of fast transferring of I/O data between devices. Performing highly Protocol extensibility and adaptation.

### Specifications

#### Ethernet Communication

- **Protocols** PROFINET, Modbus TCP
- **Number of Ports** 2
- **Speed** 10/100 Mbps, Auto MDI/MDIX
- **Connector** 8-pin RJ45
- **Protection** Built-in 1.5 KV magnetic isolation

#### Software

- **Modbus TCP**
  - Mode Client
  - Functions Support 1, 2, 3, 4, 5, 6, 15, 16, 23
  - Max. Number of Connections Modbus TCP Master: 64 connections
- **PROFINET**
  - Type Slave
  - Slot 64
  - Cyclic data exchange 64 ms cycle time
  - Max. Total I/O Data Size Input: 384 bytes  
Output: 384 bytes

#### General

- **LED Indicators** System: Power, System Status  
LAN: Speed, Link/Active  
Serial: Tx, Rx
- **Reboot Trigger** Built-in WDT (watchdog timer)

#### Mechanics

- **Dimensions (W x H x D)** 37 x 140 x 95 mm (1.46" x 5.51" x 3.74")
- **Enclosure** Metal with solid mounting hardware
- **Mounting** DIN-rail, Wall
- **Weight** 0.592 Kg

#### Power Requirements

- **Power Input** 12 ~ 48 V<sub>DC</sub>, redundant dual inputs
- **Power Connector** Terminal block
- **Power Consumption** 5.2 W

#### Environment

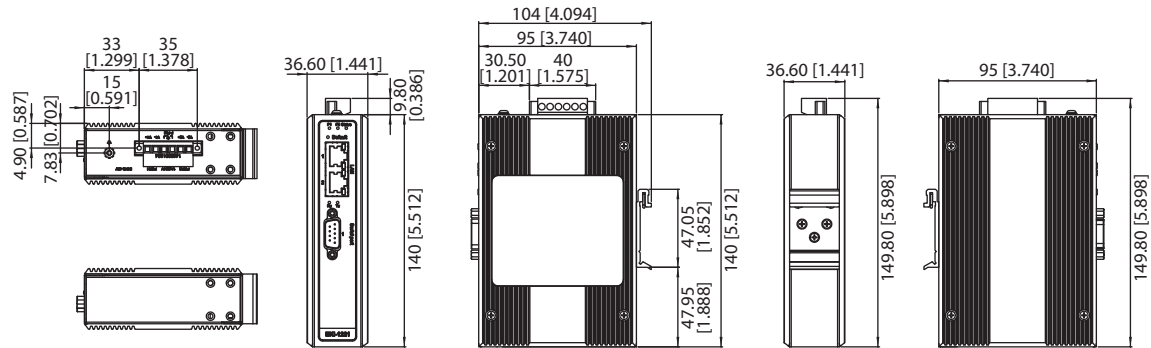
- **Operating Temperature** -40 ~ 70°C (-40 ~ 158°F)
- **Storage Temperature** -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity** 10 ~ 95% RH

#### Regulatory Approvals

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

## Dimensions

Unit: mm



**Panel Cut-out Dimensions: 104 x 140 x 36.6 mm (4.094" x 5.512" x 1.441")**

## Ordering Information

- **EKI-1221IPNMB** Modbus TCP to PROFINET Protocol Gateway