

EKI-1221EIMB

Modbus TCP to Ethernet/IP Protocol Gateway



Features

- Supports dual power input for power redundancy
- Seamlessly integrate Modbus TCP and Ethernet/IP network communication protocols
- Modbus TCP master mode supports up to 64 connections
- Mountable via DIN rail and wall mount
- "I" models support a wide operating temperature

Introduction

The EKI-1221EIMB 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, this gateway can collect data and perform data exchange between Modbus TCP and PROFINET. Simple and cost-effective, the EKI-1221EIMB brings the advantage of fast I/O data transfer between devices while delivering high performance with protocol extensibility and adaptation.

Specifications

Ethernet Communication

- **Protocols** EtherNet/IP, 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 Master
 - Functions Support 1, 2, 3, 4, 5, 6, 15, 16, 23
 - Max. Number of Connections 64 connections
- **EtherNet/IP**
 - Class Adapter
 - Max. Number of Connections 32 explicit messaging, 5 implicit messaging
 - Max. Total I/O Data Size Input: 384 bytes
Output: 384 bytes

General

- **LED Indicators** System: Power, System Status
LAN: Speed, Link/Active
- **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_{DC}, redundant dual inputs
- **Power Connector** Terminal block
- **Power Consumption** 5.2 W

Environment

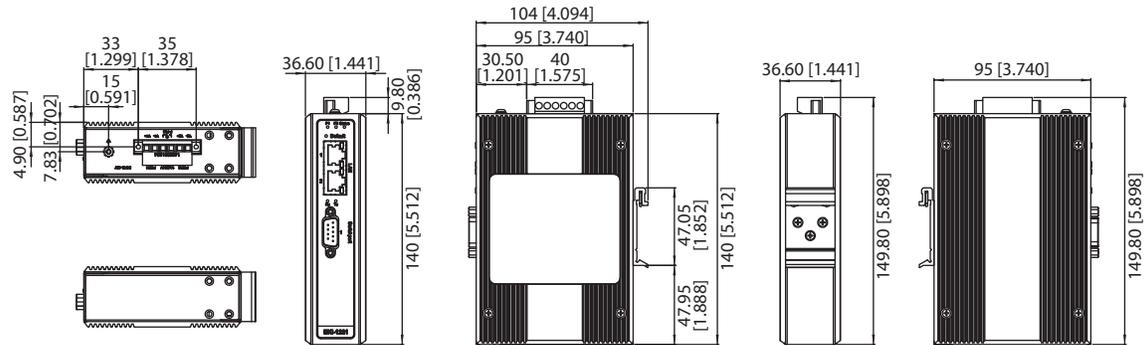
- **Operating Temperature** -40 ~ 70°C (-40 ~ 158°F)
- **Storage Temperature** -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity** 10 ~ 95% RH

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-1221IEIMB Modbus TCP to EtherNet/IP Protocol Gateway