**EKI-1221IEIMB**

**Modbus TCP to Ethernet/IP Protocol Gateway**

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**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

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**Introduction**

The EKI-1221IEIMB 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-1221IEIMB brings the advantage of fast I/O data transfer between devices while delivering high performance with protocol extensibility and adaptation.

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**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
- **Reboot Trigger**: Built-in WDT (watchdog timer)

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**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 VDC, 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)

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All product specifications are subject to change without notice. Last updated: 27-Jun-2018
### 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