

EKI-1521I-SC

1-port Device Server with Fiber and WT



Features

- 1 x 10/100 Mbps Ethernet ports and 1 x 100 Mbps Fiber port for LAN redundancy
- Provides COM port redirection (Virtual COM), TCP, and UDP operation modes
- Supports up to 921.6 kbps and any baud rate setting
- Allows a maximum of 5 hosts to access one serial port
- Allows a maximum of 16 hosts to be accessed in TCP client mode
- Built-in 15-kV ESD protection for all serial signals
- Provides rich configuration methods including Windows utility, Telnet console, and web browser
- Supports 32/64-bit Windows 2000/XP/Vista/7/8/8.1/10, Windows Server 2003/2008/2012, and Linux
- Automatic RS-485 direction control
- Supports line-to-line (2 kV) and line-to-ground (4 kV) surge protection
- Support a wide operating temperature

Introduction

The EKI-1521I-SC feature one Ethernet port with RJ45 connector and one fiber port with SC connector to provide a redundant network mechanism that guarantees Ethernet network reliability. These serial device servers are designed to connect RS-232/422/485 serial devices such as PLC, meters, sensors, and barcode readers to an IP-based Ethernet LAN. They allow nearly any device with serial ports to connect and share an Ethernet network, while also providing various operations such as COM port redirection (Virtual COMport), TCP server, TCP client, and UDP mode. With COM port redirection mode, standard serial operation calls are transparently redirected to the servers, guaranteeing compatibility with legacy serial devices and enabling backward-compatibility with existing software. With TCP server, TCP client, and UDP modes, the EKI-1521 ensure compatibility in network software using a standard network API. Moreover, serial devices can be made communicate with other devices via peer-to-peer, thus eliminating the need for an intermediate host PC and software programming.

Specifications

Ethernet Communications

- **Compatibility** IEEE 802.3, IEEE 802.3u
- **Speed** 10/100Base-T(X), 100Base-FX
- **Port** 1 x RJ45 (Ethernet)
- **Protection** 1 x SC single mode Fiber
Built-in 2.25 k VDC magnetic isolation

Serial Communications

- **Port Type** RS-232/422/485-2w/485-4w, software selectable
- **No. of Ports** 1
- **Port Connector** DB9 male
- **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, any baud rate setting
- **Serial Signals** RS-232: TxD, RxD, CTS, RTS, DCD, RI, GND, DTR, DSR
RS-422: TxD+, TxD-, RxD+, RxD-, GND
RS-485 2-wire: Data+, Data-, GND
RS-485 4-wire: TxD+, TxD-, RxD+, RxD-, GND
- **Protection** Built-in 15 KV ESD for all signals

Software

- **Driver Support** 32-bit/64-bit Windows 2000/XP/Vista/7/8/8.1/10, Windows Server 2003/2008/2012, and Linux
- **Operation Modes** COM port redirection mode (Virtual COM)
TCP/UDP server (polling) mode
TCP/UDP client (event handling) mode
Pair connection (peer to peer) mode
- **Configuration Management Protocols** Windows utility, Telnet console, Web Browser
SNMP MIB-II
ICMP, IP, TCP, UDP, BOOTP, DHCP, Auto IP, SNMP, HTTP, DNS, SMTP, ARP, NTP

Mechanics

- **Dimensions (W x H x D)** 30 x 140 x 95.3 mm (1.18" x 5.51" x 3.75")
- **Enclosure** Metal with solid mounting hardware
- **Mounting** DIN-rail, Wall
- **Weight** 0.42Kg

General

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

Power Requirements

- **Input** 12 ~ 48 V_{DC}, redundant dual inputs
- **Connector** Terminal block
- **Consumption** 4W

Environment

- **Operating Temperature** 'I' models: -40 ~ 75 °C (-40 ~ 167 °F)
- **Storage Temperature** -40 ~ 85 °C (-40 ~ 185 °F)
- **Operating Humidity** 10 ~ 95% RH

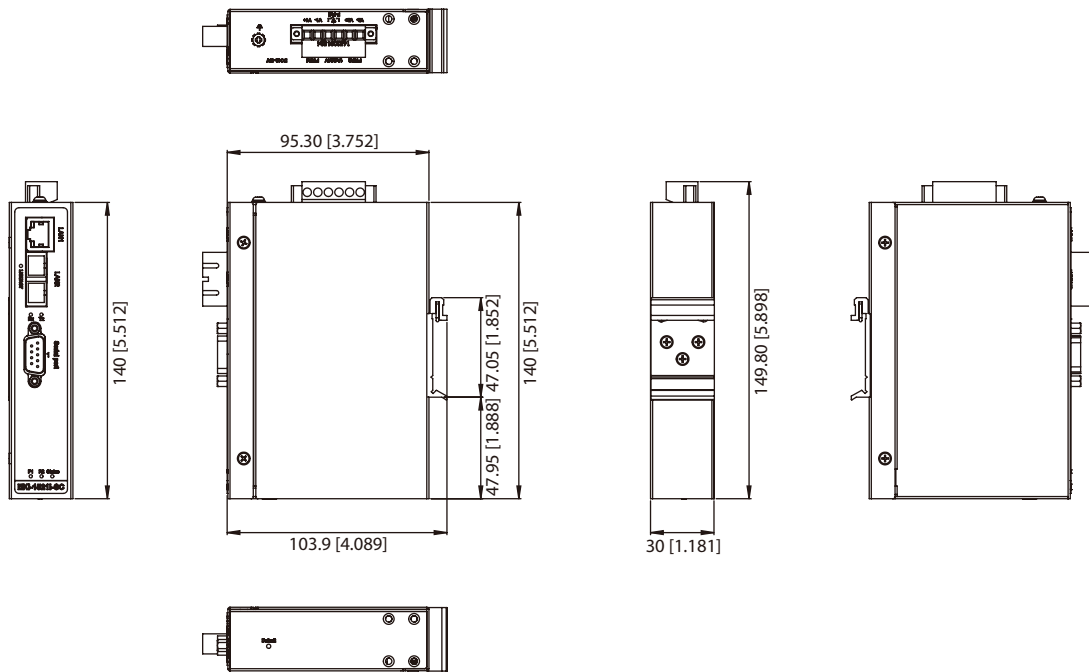
Regulatory Approvals

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

EKI-1521I-SC

Dimensions

Unit: mm [inch]



Ordering Information

- EKI-1521I-SC-A 1-port Device Server with SM/SC Fiber and WT