EKI-1521/CI/I EKI-1522/CI/I EKI-1524/CI/I

1-port RS-232/422/485 Serial Device Server

2-port RS-232/422/485 Serial Device Server

4-port RS-232/422/485 Serial Device Server



Features

- Provides 2 x 10/100 Mbps Ethernet ports 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 max. of 5 hosts to access one serial port •
- Allows a max. of 16 hosts to be accessed as 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-bit/64-bit Windows 2000/XP/Vista/7/8/8.1/10, Windows Server 2003/2008/2012, and Linux
- Automatic RS-485 data flow control
 - Supports line to line 2 KV, line to ground 4 KV surge protection
- 'I' models support a wide operating temperature
- 'CI' models support isolation and wide operating temperature

Introduction

EKI-1521, EKI-1522 and EKI-1524 feature two independent Ethernet ports and MAC addresses to provide a redundant network mechanism to guarantee Ethernet network reliability. EKI-1521, EKI-1522 and EKI-1524 are serial device servers that 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. EKI-1521, EKI-1522 and EKI-1524 provide various operations: 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 EKI-1521, EKI-1522 and EKI-1524, guaranteeing compatibility with legacy serial devices and enabling backward compatibility with existing software. With TCP server, TCP client, and UDP modes, EKI- 1521, EKI-1522 and EKI-1524 ensure the compatibility of network software that uses a standard network API. Moreover, you can make serial devices communicate with other devices peer-to-peer, without any intermediate host PCs and software programming.

Specifications

Ethernet Communications

| • | Compatibility | IEEE 802.3, IEEE 802.3u | |
|-----------------------|----------------|------------------------------------|--|
| • | Speed | 10/100 Mbps | |
| • | No. of Ports | 2 | |
| • | Port Connector | 8-pin RJ45 | |
| • | Protection | Built-in 1.5 KV magnetic isolation | |
| Social Communications | | | |

Serial Communications

Configuration

Management

| Port Type | RS-232/422/485, software selectable ("Cl" model supports RS-422/485) | |
|-------------------------------------|--|--|
| No. of Ports | EKI-1521: 1/EKI-1522: 2/EKI-1524: 4 | |
| 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 RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, 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 | |

SNMP MIB-II

Pair connection (peer to peer) mode

Windows utility, Telnet console, Web Browser

Mechanics

Dimensions (W x H x D) 36.6 x 140 x 95 mm (1.44" x 5.51" x 3.74")

- EKI-1524: 48.6 x 140 x 95 mm (1.91" x 5.51" x 3.74")
- Enclosure
- Metal with solid mounting hardware DIN-rail, Wall
- Mounting Weight
 - EKI-1521: 472g/EKI-1522: 480g/EKI-1524: 555g

General

- LED Indicators
- System: Power, System Status/LAN: Speed, Link/Active Serial: Tx. Rx

Power Requirements

- Input 12 ~ 48 V_{DC}, redundant dual inputs - Connector Terminal block - Consumption EKI-1521: 3.2 W
 - - EKI-1522: 3.2 W EKI-1524: 4.1 W

Environment

- Operating Temperature EKI-1521/EKI-1522/EKI-1524: -10 ~ 60 °C (14 ~ 140 °F) 'CI & I' models: -40 ~ 75 °C (-40 ~ 167 °F) Storage Temperature -40 ~ 85 °C (-40 ~ 185 °F)
 - **Operating Humidity** 10~95% RH

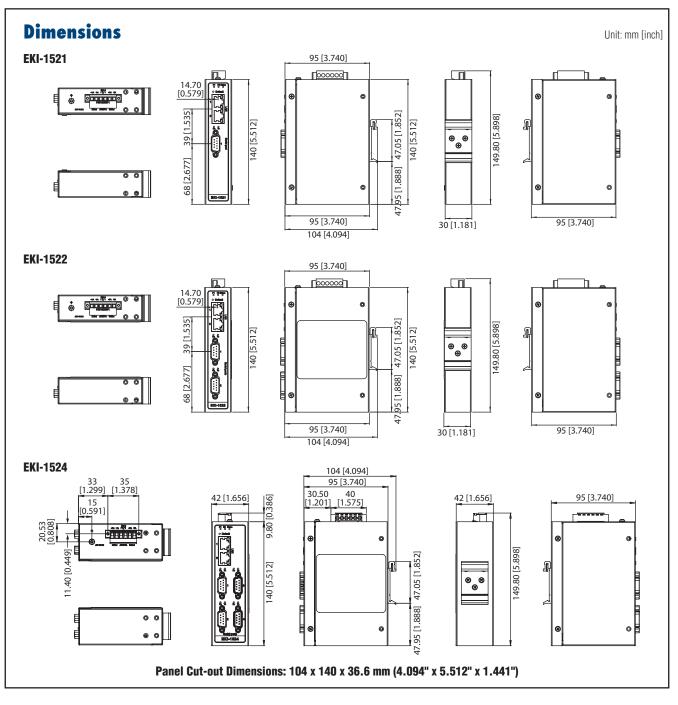
Regulatory Approvals - EMC

CE, FCC Part 15 Subpart B (Class A)

Port to Port Isolation ('CI' models) 2 kV

- Serial to Ethernet
- Serial to Power 2 kV
- Ethernet to Power 1.5 kV

EKI-1521/CI/I EKI-1522/CI/I EKI-1524/CI/I



Ordering Information

- EKI-1521 1-port RS-232/422/485 Serial Device Server
- EKI-1522 2-port RS-232/422/485 Serial Device Server
- EKI-1524 4-port RS-232/422/485 Serial Device Server
- EKI-1521I 1-port RS-232/422/485 Serial Device Server with wide operating temperature
- EKI-1522I 2-port RS-232/422/485 Serial Device Server with wide operating temperature
- EKI-1524I 4-port RS-232/422/485 Serial Device Server with wide operating temperature
- EKI-1521CI
- EKI-1522CI
- EKI-1524CI
- OPT1-DB9

1-port RS-422/485 Serial Device Server with wide operation temperature and isolation 2-port RS-422/485 Serial Device Server with wide operation temperature and isolation

- 4-port RS-422/485 Serial Device Server with wide operation temperature and isolation
- D-Sub9 to Terminal Converter