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

- 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 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 Windows XP/7/8.1/10, Windows Server 2003/2008/2012/2016/2019, and Linux
- Automatic RS-485 direction control
 - Supports line-to-line (2 kV) and line-to-ground (4 kV) surge protection
- "I" models support a wide operating temperature
- "CI" models support isolation and a wide operating temperature

Introduction

The EKI-1521, EKI-1522, and EKI-1524 feature two independent Ethernet ports and MAC addresses 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, EKI-1522, and EKI-1524 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 Speed 	IEEE 802.3, IEEE 802.3u 10/100 Mbps
No. of Ports	2
Port Connector	8-pin RJ45
Protection	Built-in 2.25 k V _{DC} magnetic isolation

DB9 male

5, 6, 7, 8

1152

Serial Communications

 Port 	Туре
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- No. of Ports
 Port Connector
- Port Connector
- Data Bits
- Stop Bits
 Parity
- Flow Control
- Baud Rate
 Serial Signals
- None, Odd, Even, Space, Mark XON/XOFF, RTS/CTS 50 bps - 921.6 kbps, any baud rate setting **(CE Version)** RS-232: TxD, FxD, CTS, RTS, DCD, RI, GND, DTR, DSR RS-422: TxD, TxD-, RxD+, RxD-, GND RS-485 2-wire: Data+, Data-, GND **(DE Version)** DB9: RS-232 isolation: TxD, RxD, CTS, RTS, GND RS-232: isolation: TxD, RxD, CTS, RTS, GND RS-232: isolation: TxD, RxD, CTS, RTS, GND RS-232: ixD, RxD, CTS, RTS, DCD, RI, GND, DTR, DSR Terminal Block (From top to bottom): RS-485 2-wire: GND, RxD-, TxD+, TxD-RS-485 2-wire: GND, RxD-, RxD+, TxD+, TxD-RS-485 4-wire: GND, RxD-, RxD+, TxD+, TxD-

RS-232/422/485-2w/485-4w, software selectable (EKI-1524CI-CE supports RS-422/485 only)

EKI-1521CI-DE; EKI-1522CI-DE also provide Terminal Block

EKI-1521: 1/EKI-1522: 2/EKI-1524: 4

Protection

Software

 Driver Support 	Windows XP/7/8.1/10, Windows Server 2003/2008/2012/2016/2019, and Linux
Operation Modes	COM port redirection mode (Virtual COM) TCP/UDP server (polling) mode
	TCP/UDP client (event handling) mode
 Configuration 	Pair connection (peer to peer) mode Windows utility, Telnet console, Web Browser
 Management 	SNMP MIB-II
Protocols	ICMP, IP, TCP, UDP, BOOTP, DHCP, Auto IP, SNMP, HTTP, DNS,
 Management 	SNMP MIB-II

Built-in 15 KV ESD for all signals

Mechanics

- Dimensions (W x H x D)
- Enclosure
- Mounting
 Weight
-
- IP Rating

General

LED Indicators

Power Requirements

- Input
- Connector
 Consumption
 - •

Environment

- Operating Temperature
- Storage Temperature Operating Humidity

Regulatory Approvals

EMC CE, FCC Part 15 Subpart B (Class A) Hazardous location UL/cUL (Class I, Division 2, Groups A, B, C and D), ATEX (Zone 2 FX nA nC IIC T4 Gc)

Port to Port Isolation ('CI' models)

- Serial to Ethernet2.25 k VDCSerial to Power2 k VDC
- Ethernet to Power 2.25 k V_{bc}

DIN-rail, Wall EKI-1521/I-CE; EKI-1522/I-CE: 0.432Kg EKI-1521/I-DE; EKI-1522CI-DE: 0.45kg EKI-1524/CI/I-CE: 0.537Kg IP30

EKI-1521/I-CE; EKI-1521CI-DE; EKI-1522/I-CE; EKI-1522CI-DE: 30 x 140 x 95 mm (1.18" x 5.51" x 3.74") EKI-1524/CI/I-CE: 42 x 140 x 95 mm (1.66" x 5.51" x 3.74")

Metal with solid mounting hardware

System: Power, System Status/LAN: Speed, Link/Active Serial: Tx, $\ensuremath{\mathsf{Rx}}$

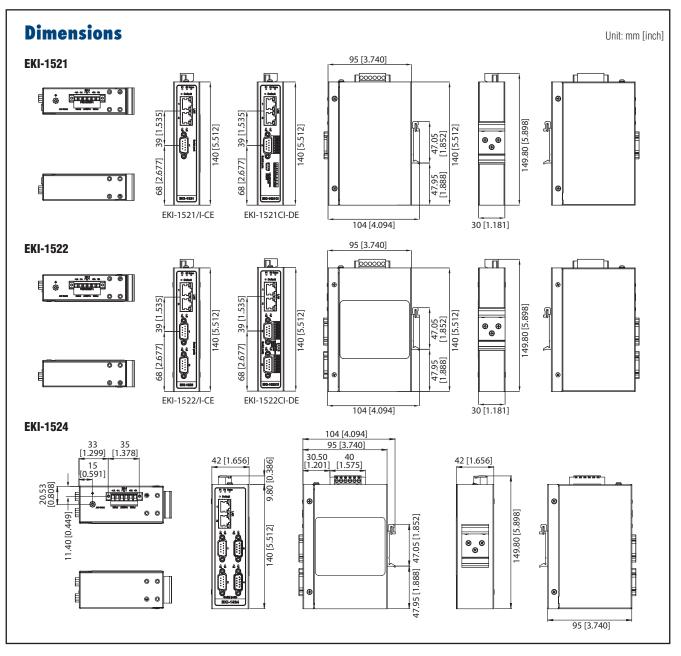
Terminal block EKI-1521: 3.2 W EKI-1522: 3.2 W EKI-1524: 4.1 W

12 ~ 48 Vpc, redundant dual inputs

EKI-1521/EKI-1522/EKI-1524: -10 ~ 60 °C (14 ~ 140 °F) 'CI & I' models: -40 ~ 80 °C (-40 ~ 176 °F) -40 ~ 85 °C (-40 ~ 185 °F) 10 ~ 95% RH

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



Ordering Information

- EKI-1521-CE
- -CE 1-port RS-232/422/485-2w/485-4w Serial Device Server
- EKI-1522-CE 2-port RS-232/422/485-2w/485-4w Serial Device Server
- EKI-1524-CE 4-port RS-232/422/485-2w/485-4w Serial Device Server
- EKI-1521I-CE 1-port RS-232/422/485-2w/485-4w Serial Device Server with wide operating temperature
- EKI-1522I-CE 2-port RS-232/422/485-2w/485-4w Serial Device Server with wide operating temperature
- EKI-1524I-CE
- EKI-1521CI-DE
- EKI-1522CI-DE
- EKI-1524CI-CE
- LKI-132401-01
- OPT1-DB9

4-port RS-232/422/485-2w/485-4w Serial Device Server with wide operating temperature 1-port RS-232/422/485-2w/485-4w Serial Device Server with wide operation temperature and isolation 2-port RS-232/422/485-2w/485-4w 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

Mouser Electronics

Authorized Distributor

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Advantech: EKI-1522-CE