

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

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

Port Connector 8-pin RJ45

Protection Built-in 1.5 KV magnetic isolation

Serial Communications

Port Type RS-232/422/485, software selectable ("CI" model supports RS-422/485)

No. of Ports EKI-1521: 1/EKI-1522: 2/EKI-1524: 4

DB9male Port Connector **Data Bits** 5,6,7,8 Stop Bits 1, 1.5, 2

Parity None, Odd, Even, Space, Mark Flow Control XON/XOFF, RTS/CTS

50 bps ~ 921.6 kbps, any baud rate setting **Baud Rate** 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 Pair connection (peer to peer) mode

Configuration Windows utility, Telnet console, Web Browser

Management

Protocols ICMP, IP, TCP, UDP, BOOTP, DHCP, Auto IP, SNMP,

HTTP.DNS.SMTP.ARP.NTP

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

Mounting DIN-rail, Wall

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

12 ~ 48 V_{DC}, redundant dual inputs Input

Connector Terminal block Consumption EKI-1521: 3.2 W FKI-1522: 3.2 W EKI-1524: 4.1 W

Environment

③ Operating Temperature EKI-1521/EKI-1522/EKI-1524: $-10 \sim 60 \,^{\circ}\text{C} \, (14 \sim 140 \,^{\circ}\text{F})$

'CI&I'models: -40~75°C (-40~167°F)

 Storage Temperature -40~85°C(-40~185°F)

 Operating Humidity 10~95%RH

Regulatory Approvals

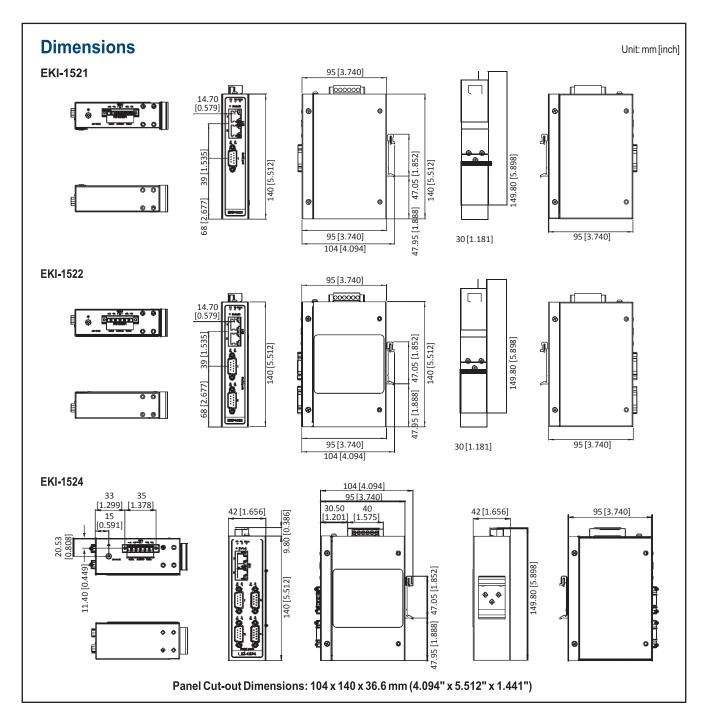
= EMC CE, FCC Part 15 Subpart B (Class A)

Port to Port Isolation ('CI' models)

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



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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