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 multiple configuration methods including Windows utility, Telnet console, and Web Browser
- Supports 32-bit/64-bit Windows 2000/XP/Vista/7/8/8.1, Windows Server 2003/2008/2012, Windows CE 5.0, and Linux
- Automatic RS-485 data flow control
- Supports surge protection for D.C. power ports with line to line 2 KV, and line to earth 4 KV; for signal ports with 4 KV.
- · '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 reader 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	
Sorial Communicat	ione	

RS-232/422/485, software selectable

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

None, Odd, Even, Space, Mark

XON/XOFF, RTS/CTS, DTR/DSR 50 bps ~ 921.6 kbps, any baud rate setting

Built-in 15 KV ESD for all signals

RS-485: Data+, Data-, GND

RS-422: TxD+, TxD-, RxD+, RxD-, GND

RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND

Serial Communications

- Port Type
- No. of Ports
- Port Connector
- Data Bits
- Stop Bits Parity
- **Flow Control**
- **Baud Rate**
- Serial Signals
- Protection
 - 'Cl' models: 2KV Isolation for RS-422/485 signals

DB9 male 5, 6, 7, 8

1, 1.5, 2

Software 32-bit/64-bit Windows XP/Vista/7/8/8.1, Windows OS Support Server 2003/2008/2008 R2/2012/2012 R2, Windows CE 5.0. and Linux Utility Software Advantech EKI Device Configuration Utility 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 SNMP MIB-II Management

Mechanics

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

Serial: Tx, Rx

Terminal block

EKI-1524: 48.6 x 140 x 95 mm (1.91" x 5.51" x 3.74")

12 ~ 48 V_{DC}, redundant dual inputs

System: Power, System Status/LAN: Speed, Link/Active

- Enclosure
 - Metal with solid mounting hardware DIN-rail, Wall
- Mounting Weight EKI-1521: 612g/EKI-1522: 620g/EKI-1524: 690g

General

LED Indicators

- **Power Requirements**
- Input
- Connector Consumption
 - EKI-1521: 5.2 W EKI-1522: 5.2 W
 - EKI-1524: 6.3 W

Environment

- Operating Temperature EKI-1521/EKI-1522/EKI-1524: -10 ~ 60°C (14 ~ 140°F)
 - 'CI & I' models: -40 ~ 70°C (-40 ~ 158°F)
- Storage Temperature -40 ~ 85°C (-40 ~ 185°F) 5~95% RH
- Operating Humidity

Regulatory Approvals

CE, FCC Part 15 Subpart B (Class A)

EMC

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-15221 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