

EKI-1521 EKI-1522 EKI-1524

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

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Features

- Provides 2 x 10/100 Mbps Ethernet ports for LAN redundancy
- Provides COM port redirection (Virtual COM), TCP and UDP operation modes
- Supports baud rate up to 921.6 kbps
- 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 Windows 2000/XP/Vista drivers
- Automatic RS-485 data flow control
- Class I, Division 2 certification

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

Serial Communications

- Port Type** RS-232/422/485, software selectable
- 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, DTR/DSR
- Baud Rate** 50 bps ~ 921.6 kbps
- Serial Signals**
 - RS-232: TxD, RxD, CTS, RTS, DTR, DSR, 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** Windows 2000/XP/Vista
- Utility Software** Advantech Serial Device Server 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
- Protocol** ICMP, IP, TCP, UDP, BOOTP, DHCP, Auto IP, Telnet, SNMP, HTTP, DNS, SMTP, ARP, NTP
- Management** SNMP MIB-II

Mechanics

- Dimensions (W x H x D)**
 - EKI-1521/1522: 37 x 140 x 95 mm
 - EKI-1524: 55 x 140 x 95 mm
- Enclosure** Metal with solid mounting hardware
- Mounting** DIN-rail, Panel
- Weight**
 - EKI-1521: 592g
 - EKI-1522: 600g
 - EKI-1524: 668g

General

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

Power Requirements

- Power Input** 12 ~ 48 V_{DC}, redundant dual inputs
- Power Connector** Terminal block
- Power Consumption**
 - EKI-1521: 2 W
 - EKI-1522: 2.5 W
 - EKI-1524: 4 W

Environment

- Operating Temperature** -10 ~ 60° C (14 ~ 140° F)
- Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)
- Operating Humidity** 5 ~ 95% RH

Regulatory Approvals

- EMC** CE, FCC Part 15 Subpart B (Class A)
- Safety** UL (UL60950-1)
- MTBF**
 - EKI-1521: 1,102,913 hrs
 - EKI-1522: 1,000,154 hrs
 - EKI-1524: 862,230 hrs
- Hazardous Location** UL/cUL Class I, Division 2

Ordering Information

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