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



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, Windows Server 2003/2008, Windows CE 5.0, and Linux
- 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 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 XON/XOFF, RTS/CTS, DTR/DSR Flow Control

Baud Rate 50 bps ~ 921.6 kbps, any baud rate setting 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 32-bit/64-bit Windows 2000/XP/Vista/7, Windows Server 2003/2008, Windows CE 5.0, and Linux

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

SNMP, HTTP, DNS, SMTP, ARP, NTP SNMP MIB-II Management

Mechanics

Dimensions (W x H x D) EKI-1521/1522: 37 x 140 x 95 mm (1.46" x 5.51" x 3.74")

EKI-1524: 55 x 140 x 95 mm (2.17" x 5.51" x 3.74") Enclosure Metal with solid mounting hardware

Mounting DIN-rail, Wall Weight EKI-1521: 0.592 Kg EKI-1522: 0.6 Kg EKI-1524: 0.668 Kg

General

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

Serial: Tx. Rx Reboot Trigger Built-in WDT (watchdog timer)

Power Requirements

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

Power Connector Terminal block EKI-1521: 2 W EKI-1522: 2.5 W Power Consumption 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/cUL 60950-1 EKI-1521: 1,102,913 hours MTBF

EKI-1522: 1,000,154 hours EKI-1524: 862,230 hours Class I, Division 2

Hazardous Location

Ordering Information

EKI-1521 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 **EKI-1522** EKI-1524

OPT1-DB9 D-Sub9 to Terminal Converter