EKI-1521 EKI-1522

1-port RS-232/422/485 Serial Device Server

2-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 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
- SNMP MIB-II for network management

Introduction

EKI-1521 and EKI-1522 feature two independent Ethernet ports and MAC addresses to provide a redundant network mechanism to guarantee Ethernet network reliability. EKI-1521 and EKI-1522 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 and EKI-1522 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 and EKI-1522, quaranteeing compatibility with legacy serial devices and enabling backward compatibility with existing software. With TCP server, TCP client, and UDP modes, EKI-1521 and EKI-1522 ensures 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

Built-in 1.5 KV magnetic isolation Protection

Serial Communications

Port Type RS-232/422/485, software selectable

No. of Ports EKI-1521: 1 EKI-1522: 2 **Port Connector** DB9 male **Data Bits** 5, 6, 7, 8

Stop Bits 1, 1.5, 2 None, Odd, Even, Space, Mark **Parity** XON/XOFF, RTS/CTS, DTR/DSR Flow Control

Baud Rate 50 bps ~ 921.6 kbps RS-232: TxD. RxD. CTS. RTS. DTR. DSR. DCD. RI. GND Serial Signals

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

RS-485: Data+, Data-, GND Protection Built-in 15 KV ESD for all signals

Software

Windows 2000/XP/Vista (x86) Driver Support

 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

Windows utility, Telnet console, Web Browser Configuration ICMP, IP, TCP, UDP, BOOTP, DHCP, Auto IP, Telnet, Protocol SNMP, HTTP, DNS, SMTP, ARP, NTP

SNMP MIB-II Management

Mechanics

Dimensions (W x H x D) 37 x 140 x 95 mm

Metal with solid mounting hardware **Enclosure**

Mounting DIN-rail, panel Weight EKI-1521: 592g EKI-1522: 600g

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 **Power Consumption** EKI-1521: 2 W EKI-1522: 2.5 W

Environment

Operating Temperature $0 \sim 60^{\circ} \text{ C} (32 \sim 140^{\circ} \text{ F})$ 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) EKI-1521: 1,102,913 hrs MTBF EKI-1522: 1,000,154 hrs Hazardous Location UL/cUL Class I, Division 2

Orderina Information

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