

# EKI-1521

# EKI-1522

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

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

NEW



CE FCC

## Features

- Supports 2 x 10/100Base-T redundant Ethernet networking
- Provides COM port redirection (Virtual COMport), TCP and UDP modes
- Supports baud rate up to 921 kbps
- Allows a max of 5 hosts to access one serial port
- Supports an advanced security mechanism to avoid unauthorized access
- Allows a max of 16 hosts to access TCP client and command response mode
- Download and testing utility: Easy to download firmware and self-diagnosis
- Easily manage Port Mapping and configuration utility for Win2000/XP/Vista
- Mounts on DIN-rail, or panel
- Automatic RS-485 data flow control

## Introduction

EKI-1521 and EKI-1522 feature two independent Ethernet ports and MAC addresses to provide a redundant networking mechanism to guarantee Ethernet networking reliability. EKI-1521 and EKI-1522 are serial device servers that connect RS-232/422/485 serial devices, such as PLC, meters, sensors, and bar code 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, IP Client and UDP mode. With COM port redirection mode, standard serial operation calls are transparently redirected to the EKI-1521 and EKI-1522, guaranteeing 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** IEEE802.3, IEEE802.3u
- **Speed** 10/100Mbps
- **Connectors** 2 x RJ-45

### Serial Communications

- **Type** RS-232/422/485
- **Connectors** EKI-1521: 1 x DB9  
EKI-1522: 2 x DB9
- **Ports** EKI-1521: 1  
EKI-1522: 2
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity Bits** Odd, even, none, space, mark
- **Baud Rate** 50bps ~ 921kbps  
2 ports up to 460k bps simultaneously
- **Data Signals** RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND  
RS-422: TxD+, TxD-, RxD+, RxD-, GND  
RS-485: Data+, Data-, GND

### Software

- **Driver Supported** 2000/XP/Vista(x86)
- **Utility Software** Advantech Serial Device Server Configuration Utility
- **Operation Modes** COM port redirection mode (virtual COM port)  
TCP Server (polling) mode  
TCP Client (event handling) mode  
Pair connection (Peer to Peer)

### Mechanics

- **Dimensions (W x H x D)** 37 x 140 x 95 mm
- **Enclosure** Metal with solid mounting hardware
- **Mounting** DIN-rail, panel

### General

- **Certifications** CE, FCC class A
- **LED Indicators** System: Power, status  
LAN: Speed, Link/Active  
Serial: TX, RX

### Power

- **Power Input** 2 x Unregulated 12 ~ 48 V<sub>DC</sub>
- **Power Consumption** EKI-1521: 2 W  
EKI-1522: 2.5 W

### Protection

- **Serial Protection** 15 KV ESD
- **Ethernet Protection** Built-in 1.5 KV magnetic isolation

### Environment

- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)
- **Operating Humidity** 20 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)

## Ordering Information

- **EKI-1521** 1-port RS-232/422/485 Serial Device Server
- **EKI-1522** 2-port RS-232/422/485 Serial Device Server