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

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

NEW

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 WinNT/2000/XP
- Mounts on DIN-rail, or panel
- Automatic RS-485 data flow control

CE FCC

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**   Windows 2000/XP
- **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_{DC}
- **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