Serial Device Servers and IP Gateways

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
- Automatic RS-485 data flow control
- Supports line to line 4 KV, line to ground 8 KV surge protection
- 'I' models support a wide operating temperature
- 'CI' models support isolation and wide operating temperature

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 15 KV ESD for all signals

**Serial Communications**
- **Port Type**: RS-232/422/485, software selectable
- **No. of Ports**: 8
- **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, 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**
- **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
- **Management**: SNMP MIB-II

**Mechanics**
- **Dimensions (W x H x D)**: 86 x 140 x 95 mm (3.38" x 5.51" x 3.74")
- **Enclosure**: Metal with solid mounting hardware
- **Mounting**: DIN-rail, Wall
- **Weight**: EKI-1528I:900g/ EKI-1528CI:1000g

**General**
- **LED Indicators**: System: Power, System Status/LAN: Speed, Link/Active Serial: Tx, Rx

**Power Requirements**
- **Input**: 12 – 48 Vdc, redundant dual inputs
- **Connector**: Terminal block
- **Consumption**: EKI-1528I: 5W
  - EKI-1528CI: 6W

**Environment**
- **Operating Temperature**: -40 – 70°C (-40 – 158°F)
- **Storage Temperature**: -40 – 85°C (-40 – 185°F)
- **Operating Humidity**: 10– 95% RH

**Regulatory Approvals**
- **EMC**: CE, FCC Part 15 Subpart B (Class A)

Introduction

The EKI-1528I and EKI-1528CI feature two independent Ethernet ports and MAC addresses to provide a redundant network mechanism to guarantee Ethernet network reliability. The EKI-1528I and EKI-1528CI 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. The EKI-1528I and EKI-1528CI provide various operations: COM port redirection (Virtual COM), TCP Server, TCP Client and UDP mode. With COM port redirection mode, standard serial operation calls are transparently redirected to the EKI-1528I and EKI-1528CI, guaranteeing compatibility with legacy serial devices and enabling backward compatibility with existing software. With TCP server, TCP client, and UDP modes, EKI-1528I and EKI-1528CI 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.
**Dimensions**

Panel Cut-out Dimensions: 86 x 140 x 95 mm (3.38" x 5.51" x 3.74")

**Ordering Information**

- **EKI-1528I-DR** 8-port Serial Device Server with wide temp. (DR)
- **EKI-1528CI-DR** 8-port Serial Device Server with wide temp & iso