Introduction

The EKI-1528I and EKI-1528CI feature two independent Ethernet ports and MAC addresses to provide a redundant network mechanism that guarantees Ethernet network reliability. These serial device servers are designed to connect RS-232/422/485 serial devices such as PLC, meters, sensors, and barcode readers to an IP-based Ethernet LAN. They allow nearly any device with serial ports to connect and share an Ethernet network, while also providing various operations such as 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 servers, guaranteeing compatibility with legacy serial devices and enabling backward-compatibility with existing software. With TCP server, TCP client, and UDP modes, the EKI-1528I and EKI-1528CI ensure compatibility in network software using a standard network API. Moreover, serial devices can be made communicate with other devices via peer-to-peer, thus eliminating the need for an intermediate host PC and software programming.

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 2.25 kVDC magnetic isolation

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, RTS, CTS, 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

All product specifications are subject to change without notice. Last updated: 17-Mar-2020
**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)

**Port to Port Isolation ('CI' models)**
- Serial to Ethernet: 2.25 kV
- Serial to Power: 2 kV
- Ethernet to Power: 2.25 kV

**Ordering Information**
- **EKI-1528I-DR**: 8-port RS-232/422/485 Serial Device Server with Wide Temp.
- **EKI-1528CI-DR**: 8-port RS-422/485 Serial Device Server with Wide Temp. and Isolation

**Dimensions**
*Unit: mm [inch]*

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