EKI-1528I-DR
8-Port RS-232/422/485 Device Server

EKI-1528CI-DR
8-Port RS-422/485 Device Server

EKI-1528CI   EKI-1528I

Features

- 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 maximum of 5 hosts to access one serial port
- Allows a maximum of 16 hosts to be accessed in 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 32/64-bit Windows 2000/XP/Vista/7/8/8.1/10, Windows Server 2003/2008/2012, and Linux
- Automatic RS-485 data flow control
- Supports line-to-line (2 kV) and line-to-ground (4 kV) surge protection
- "I" models support a wide operating temperature
- "CI" models support isolation and a wide operating temperature

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 COMport), 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 1.5 KV 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, 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

- **Driver Support**   32-bit/64-bit Windows 2000/XP/Vista/7/8/8.1, Windows Server 2003/2008/2012, Windows CE 5.0, and Linux
- **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 V_{DC}, redundant dual inputs
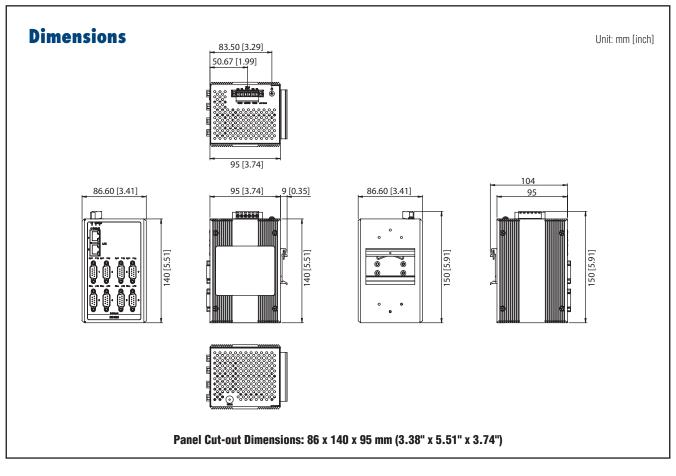- **Connector**   Terminal block
- **Consumption**   EKI-1528I: 5W
  EKI-1528CI: 6W

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)

ADVANTECH   **Industrial Wireless and Protocol Gateway Solutions**

All product specifications are subject to change without notice.   Last updated: 27-Jun-2018

Dimensions

Unit: mm [inch]

83.50 [3.29]
50.67 [1.99]
95 [3.74]

86.60 [3.41]
95 [3.74] 9 [0.35]
86.60 [3.41]
104
95

140 [5.51]
140 [5.51]
150 [5.91]
150 [5.91]

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