EKI-1511/L/I

1-Port RS-232 Serial Device Server

EKI-1511/X

1-Port RS-422/485 Serial Device Server

Features

- 1 x 10/100 Mbps Ethernet port
- Provides COM port redirection (Virtual COM), TCP, and UDP operation modes
- Baud rate: supports up to 230.4 Kbps
- Maximum of five hosts can access one serial port
- Maximum of 16 hosts accessed in TCP client mode
- Built-in 8-kV ESD protection for all serial signals
- Provides multiple configuration 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
- "I" models support a wide operating temperature

Introduction

The EKI-1511 Series focus on the entry level device server market, providing an economic solution that is designed to connect RS-232 or RS-422/485 serial devices such as PLC, meters, sensors, and barcode readers to an IP-based Ethernet LAN. This allows nearly any device with a serial port 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-1511 Series ensure compatibility in network software using a standard network API. Serial devices can 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	1
Port Connector	8-pin RJ45
Protection	Built-in 2.25 k V_{DC} magnetic isolation

Serial Communications

Port Type	L: RS-232 X: RS-422/485
No. of Ports	1
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
Baud Rate	300 bps ~ 230.4 kbps
Serial Signals	RS-232: TxD, RxD, CTS, RTS, GND RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485 2-wire: Data+, Data-, GND RS-485 4-wire: TxD+, TxD-, RxD+, RxD- GND
Protection	Built-in 8 KV ESD for all signals

Software

Driver Support	32-bit/64-bit Windows 2000/XP/Vista/7/8/8.1/10, Windows Server 2003/2008/2012, 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
Protocols	ICMP, IP, TCP, UDP, BOOTP, DHCP, Auto IP, SNMP, HTTP, DNS, SMTP, ARP, NTP

Mechanics

Dimensions (W x H x D)	46 x 85.1 x 21.2 mm (1.81" x 3.35' x 0.83')
Enclosure	Metal with solid mounting hardware
Mounting	DIN-rail, Wall
Weight	0.127 kg

General

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

Power Requirements

Input	9 ~ 36 V_{DC}
Connector	Terminal block
Consumption	1 W

Environment

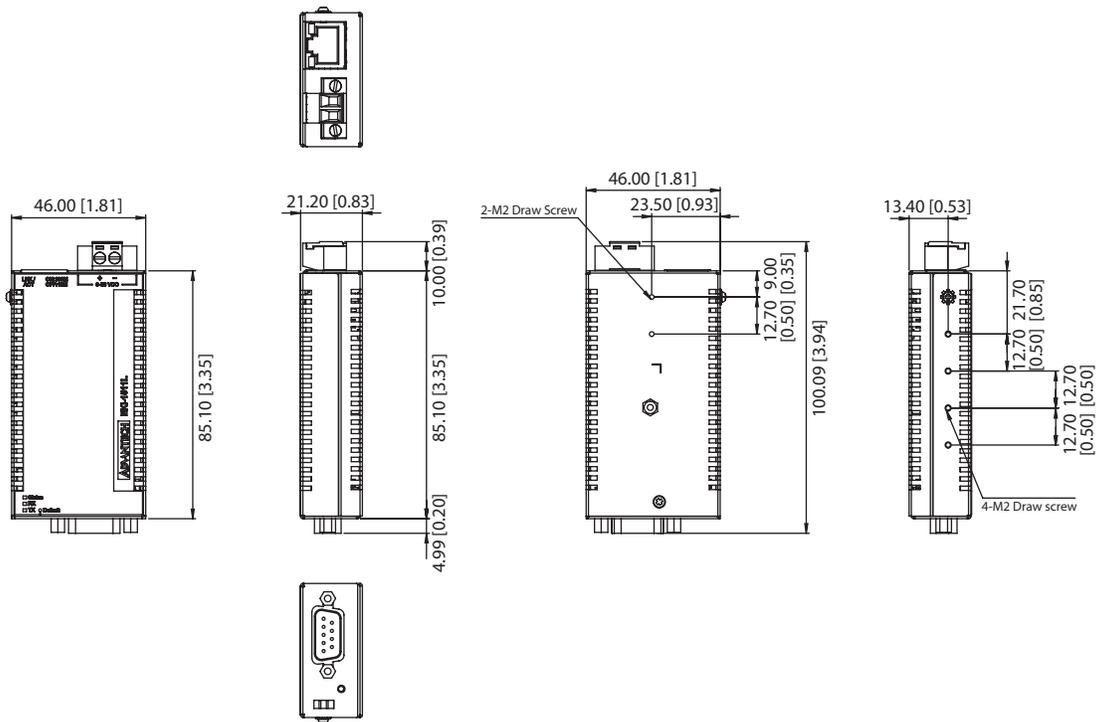|	
Operating Temperature	-10 ~ 60 °C (14 ~ 140 °F) I' models: -40 ~ 75 °C (-40 ~ 167 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Operating Humidity	10 ~ 95% RH

Regulatory Approvals

EMC	CE, FCC Part 15 Subpart B (Class A)

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Dimensions

Unit: mm [inch]

46.00 [1.81]

85.10 [3.35]

21.20 [0.83]

10.00 [0.39]

85.10 [3.35]

4.99 [0.20]

46.00 [1.81]

2-M2 Draw Screw

23.50 [0.93]

9.00 [0.35]

12.70 [0.50]

100.09 [3.94]

13.40 [0.53]

21.70 [0.85]

12.70 [0.50]

12.70 [0.50]

12.70 [0.50]

4-M2 Draw screw

Panel Cut-Out Dimensions: 46 x 85.1 x 21.2 (1.81 x 3.35 x 0.83)

Ordering Information

- **EKI-1511L**   1-Port RS-232 Serial Device Server
- **EKI-1511IL**   1-Port RS-232 Serial Device Server with wide operating temperature
- **EKI-1511X**   1-Port RS-422/485 Serial Device Server
- **OPT1-PSU12V05-US**   Power Adapter 12v 0.5A US
- **OPT1-PSU12V05-EU**   Power Adapter 12v 0.5A Europe
- **OPT1-PSU12V05-UK**   Power Adapter 12v 0.5A UK