EKI-1361
EKI-1362

1-port RS-232/422/485 to 802.11a/b/g/n WLAN Serial Device Server

2-port RS-232/422/485 to 802.11a/b/g/n WLAN Serial Device Server

Features

- Link any serial device to an IEEE 802.11a/b/g/n network
- Support 802.11n MIMO 2T2R
- WLAN transmision rate up to 300 Mbps
- Support secure access with WEP, WPA/WPA2-Personal, WPA/WPA2-Enterprise
- Provide COM port redirection, TCP, UDP, and pair connection modes
- Support up to 921.6 kbps, and any baud rate setting
- Provide Web-based configuration and Windows utility
- Allow a max. of 5 hosts to access one serial port
- Support Modbus TCP and Modbus RTU
- Support Dual band 2.4/5GHz selective

Introduction

EKI-1361 and EKI-1362 wireless serial device servers bring RS-232/422/485 to wireless LAN or LAN. They allow nearly any device with serial ports to connect and share an WLAN network. EKI-1361 and EKI-1362 provide a quick, simple and cost-effective way to bring the advantages of remote management and data accessibility to thousands of devices that cannot connect to a network.

With EKI-1361 and EKI-1362, your existing serial devices can be used with the most popular operating systems on the market. There is no need to write special drivers for specific operating systems. Moreover, you can make serial devices communicate with other devices peer-to-peer, without any intermediate host PCs and software programming. That saves a lot of cost and effort. In addition, you can actively request data or issue commands from the RS-232/422/485 side or wireless LAN side. This data can be sent bilaterally. Thus, the EKI-1361 and EKI-1362 are especially suitable for remote monitoring environments such as security systems, factory automaton, SCADA, transportation and more.

Specifications

Ethernet Communications

- **Port Type** RJ45
- **No. of Ports** 1
- **Speed** 10/100 Mbps

Wireless LAN Communications

- **Compatibility** IEEE 802.11a/b/g/n
- **Speed** Up to 300Mbps
- **Network Mode** Infrastructure
- **Antenna Connector** Reverse SMA
- **No. of Antenna** 2 (supports 2T2R)
- **Free Space Range** Open space 100 m
- **Wireless Security** WEP, WPA/WPA2-Personal, WPA/WPA2-Enterprise

Serial Communications

- **Port Type** RS-232/422/485-2w/485-4w, software selectable
- **No. of Ports** EKI-1361: 1
EKI-1362: 2
- **Port Connector** DB9 male
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity** None, Odd, Even, Space, Mark
- **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 2-wire: Data+, Data-, GND
RS-485 4-wire: GND, RxD-, RxD+, TxD+, TxD

Software

- **OS Support** 32-bit/64-bit Windows XP/Vista/7/8/8.1/10, Windows Server 2003/2008/2008 R2/2012/2012 R2 and Linux
- **Utility Software** Advantech EKI Device Configuration Utility
- **Operation Modes** **EKI-1361/2**
COM port redirection mode (Virtual COM)
TCP/UDP server (polling) mode
TCP/UDP client (event handling) mode
- **Configuration** Windows utility, Telnet console, Web Browser
- **Protocol** ARP, ICMP, IPv4, IPv6, TCP, UDP, BOOTP, DHCP Client, Auto IP, Telnet, DNS, SNMP, HTTP, SMTP, SNTP

Mechanics

- **Enclosure** Metal shell with solid mounting kits
- **Mounting** DIN-rail, Wall
- **Dimensions (W x H x D)** 25 x 103 x 95mm (0.98" x 4.06" x 3.74")
- **Weight** 315g
- **IP rating** IP30

General

- **LED Indicators** System: Power, System Status
WLAN: Quality, Link/Active
LAN: Link/Active
Serial: Tx, Rx
- **Reboot Trigger** Built-in WDT (watchdog timer)

Power Requirements

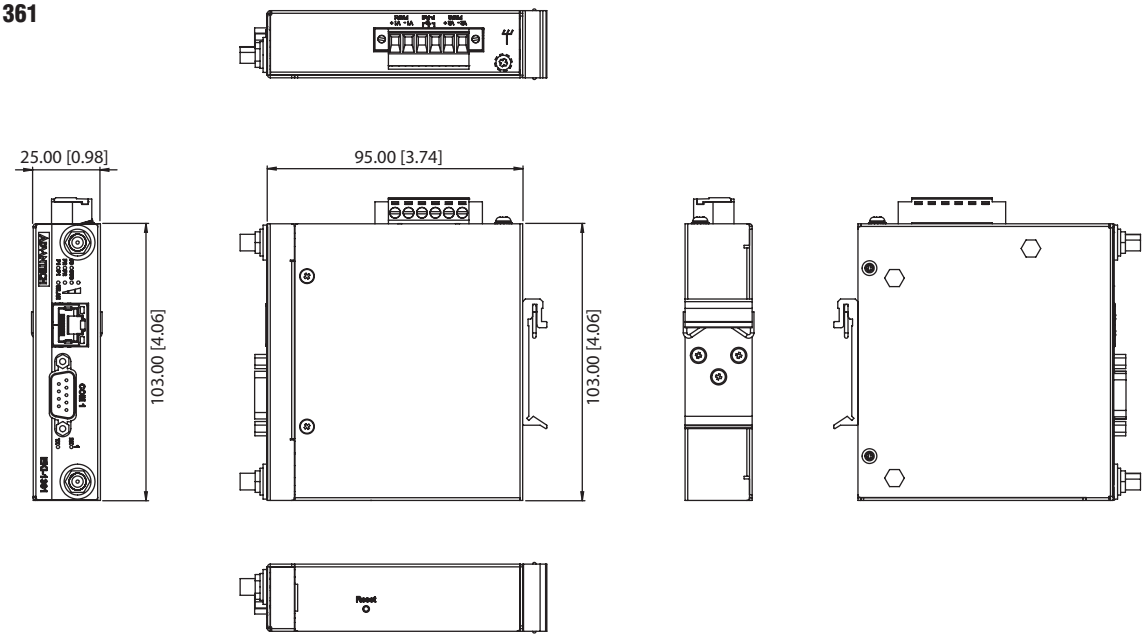
- **Power Input** 12 ~ 48 V_{DC}, redundant dual inputs
- **Power Connector** Terminal block
- **Power Consumption** 2 W maximum

Last updated: 25-Jan-2022

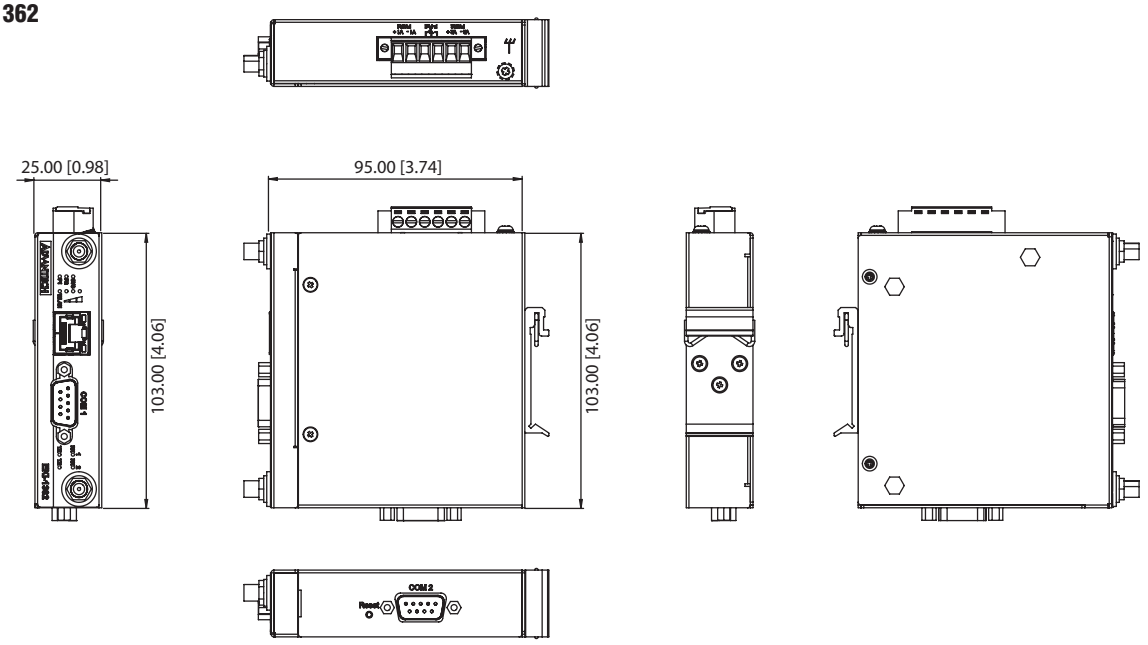
Dimensions

Unit: mm [inch]

EKI-1361



EKI-1362



Environment

- **Operating Temperature** -40 ~ 70°C (-40 ~ 166°F)
- **Storage Temperature** -40 ~ 80°C (-40 ~ 176°F)
- **Operating Humidity** 10 ~ 95% RH

Regulatory Approvals

- **EMC** CE, FCC Part 15 Subpart B (Class B)

Ordering Information

- **EKI-1361-CE** 1-port 802.11b/g/n WLAN Serial Device Server
- **EKI-1362-CE** 2-port 802.11b/g/n WLAN Serial Device Server
- **OPT1-DB9-AE** D-Sub9 to Terminal Converter