

# EKI-1351

# EKI-1352

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

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



## Features

- Link any serial device to an IEEE 802.11 b/g network
- Supports wireless LAN Ad-Hoc and Infrastructure modes
- Provides COM port redirection, TCP, UDP, and pair connection modes
- Supports baud rate up to 921.6 kbps
- Provides Web-based configuration and Windows utility
- Allows a max. of 5 hosts to access one serial port
- Supports Windows 2000/XP/Vista drivers
- Allows a max. of 4 hosts to be accessed as TCP client mode
- Built-in 15 KV ESD protection for all serial signals
- Supports DHCP protocol
- Supports secure access with WEP, WPA, WPA2

## Introduction

EKI-1351 and EKI-1352 are wireless serial device servers that bring RS-232/422/485 to wireless Ethernet. They allow nearly any device with serial ports to connect and share an Wireless Ethernet network. EKI-1351 and EKI-1352 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-1351 and EKI-1352, 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 Ethernet side. This data can be sent bilaterally. Thus, the EKI-1351 and EKI-1352 are especially suitable for remote monitoring environments such as security systems, factory automaton, SCADA, transportation and more.

## Specifications

### Ethernet Communications

- **Compatibility** IEEE 802.11b, IEEE 802.11g
- **Speed** 11/54 Mbps
- **Network Mode** Infrastructure, Ad-Hoc
- **Antenna Connector** Reverse SMA
- **Free Space Range** Open space 100m
- **Wireless Security** WEP, WPA, WPA2

### Serial Communications

- **Port Type** RS-232/422/485, software selectable
- **No. of Ports** EKI-1351: 1  
EKI-1352: 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
- **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** 15 KV ESD for all signals

### Software

- **Driver Support** Windows 2000/XP/Vista
- **Utility Software** Advantech Serial Device Server Configuration Utility
- **Operation Modes** COM port redirection mode (Virtual COM)  
TCP/UDP server (polling) mode  
TCP/UDP client (event handling) mode  
Pair connection without AP (peer to peer) mode

### Mechanics

- **Dimensions (W x H x D)** 37 x 140 x 95 mm
- **Enclosure** Metal with solid mounting hardware
- **Mounting** DIN-rail, Panel
- **Weight** EKI-1351: 595g  
EKI-1352: 603g

### General

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

### Power Requirements

- **Power Input** 12 ~ 48 V<sub>DC</sub>, redundant dual inputs
- **Power Connector** Terminal block
- **Power Consumption** EKI-1351: 3.5 W  
EKI-1352: 4 W

### Environment

- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)
- **Operating Humidity** 5 ~ 95% RH

### Regulatory Approvals

- **EMC** CE, FCC Part 15 Subpart B (Class B)
- **Safety** UL (UL60950-1)
- **Hazardous Location** UL/cUL Class I, Division 2

## Ordering Information

- **EKI-1351** 1-port 802.11b/g WLAN Serial Device Server
- **EKI-1352** 2-port 802.11b/g WLAN Serial Device Server