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 802.11b/g network
- Supports wireless LAN Ad-Hoc and Infrastructure modes
- Provides COM port redirection, TCP, UDP, and pair connection modes
- Supports up to 921.6 kbps, and any baud rate setting
- Provides Web-based configuration and Windows utility
- Allows a max. of 5 hosts to access one serial port
- Supports 32-bit/64-bit Windows 2000/XP/Vista/7, Windows Server 2003/2008, Windows CE 5.0, and Linux
- 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 100 m
- **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, 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** 15 KV ESD for all signals

Software

- **Driver Support** 32-bit/64-bit Windows 2000/XP/Vista/7, Windows Server 2003/2008, Windows CE 5.0, and Linux
- **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
- **Configuration** Windows utility, Telnet console, Web Browser
- **Protocols** ICMP, TCP/IP, UDP, DHCP Client, Telnet, DNS, SNMP, HTTP, SMTP, SNTP, ARP

Mechanics

- **Dimensions (W x H x D)** 37 x 140 x 95 mm (1.46" x 5.51" x 3.74")
- **Enclosure** Metal with solid mounting hardware
- **Mounting** DIN-rail, Wall
- **Weight** EKI-1351: 0.595 Kg
EKI-1352: 0.603 Kg

General

- **LED Indicators** System: Power, System Status
WLAN: Quality, Fail, 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** 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/cUL 60950-1
- **Hazardous Location** 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
- **OPT1-DB9** D-Sub9 to Terminal Converter