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

- Supports 802.11g and 802.11b
- Supports wireless LAN Ad-Hoc and Infrastructure modes
- Provides COM port redirection (Virtual COMport), TCP/IP and UDP modes
- Supports standard socket and winsock networking programming
- Provides multiple networking architectures: polling, event handling, serial tunneling
- Allows a maximum of 5 host PCs to access with command response mode using UDP protocol
- Auto-searching Windows configuration utility
- Supports DIN-rail or panel mounting

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 802.11g and 802.11b
- **Speed** 54/11 Mbps
- **Connectors** Wireless

Serial Communications

- **Type** RS-232/422/485
- **Connectors** EKI-1351: 1 x DB9
  EKI-1352: 2 x DB9
- **Ports** EKI-1351: 1
  EKI-1352: 2
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity Bits** Odd, even, none, space, mark
- **Baud Rate** 50bps ~ 921kbps
  2 ports up to 460k bps simultaneously
- **Data Signals** RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND
  RS-422: TxD+, TxD-, RxD+, RxD-, GND
  RS-485: Data+, Data-, GND

Software

- **Driver Supported** 2000/XP/Vista(x86)
- **Utility Software** Advantech Serial Device Server Configuration Utility
- **Operation Modes** COM port redirection mode (virtual COM port)
  TCP Server (polling) mode
  TCP Client (event handling) mode
  Pair connection without AP (Peer to Peer)

Mechanics

- **Dimensions (W x H x D)** 37 x 140 x 95 mm
- **Enclosure** Metal with solid mounting hardware
- **Mounting** DIN-rail, panel

General

- **Certifications** CE, FCC class B
- **LED Indicators** System: Power, status
  WLAN: Quality, Fail, Link/Active
  Serial: TX/RX

Power

- **Power Input** 2 x Unregulated 12 ~ 48 V_{DC}
- **Power Consumption** EKI-1351: 3.5 W
  EKI-1352: 4 W

Protection

- **Serial Protection** 15 KV ESD

Environment

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

Ordering Information

- **EKI-1351** 1-port RS-232/422/485 to 802.11b/g WLAN Serial Device Server
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