EKI-1361
EKI-1362

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

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

Features

- Link any serial device to an IEEE 802.11b/g/n network
- Support 802.11n MIMO 2T2R
- WLAN transmision rate up to 300 Mbps
- Supports secure access with WEP, WPA/WPA2-Personal, WPA/WPA2-Enterprise
- 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

Introduction

EKI-1361 and EKI-1362 are wireless serial device servers that 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

Compatibility	IEEE 802.11b/g/n
Speed	Up to 300Mbps
Network Mode	Infrastructure, Ad-hoc
Antenna Connector	Reverse SMA
No. of Antenna	2 (support 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, 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: 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

Enclosure	Plastic and metal shell with solid mounting kits
Mounting	DIN-rail, Wall
Dimensions (W x H x D)	215 x 160 x 67 mm (8.46" x 6.30" x 2.64")
Weight	0.75 Kg

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	EKI-1361: 8W EKI-1362: 9W

Environment

Operating Temperature	-30 ~ 65°C (-22 ~ 149°F)
Storage Temperature	-40 ~ 80°C (-40 ~ 176°F)
Operating Humidity	5 ~ 95% RH

Regulatory Approvals

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

Ordering Information

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

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