

CSW-H85K2 | Serial to WLAN Converter



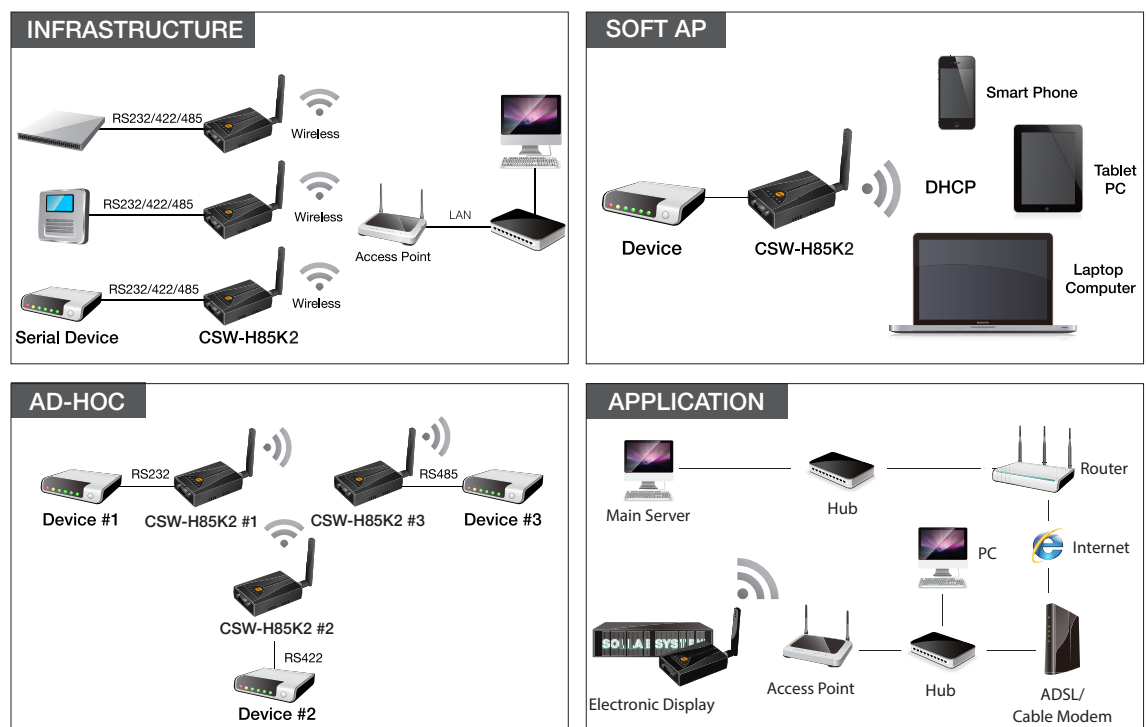
Overview

CSW-H85K2是串口↔无线网络的联网服务器，其作用是将串口设备连接到无线网络。搭载Soft AP功能在没有AP的情况也可组成网络。通过, Wi-Fi下的移动设备方便快捷的管理及设定设备。另外，通过IPv4/IPv6双协议栈，在执行新标准IPv6网络时，不受互换性限制正常支持通信。通过WPA-Enterprise协议，不仅进一步加强了保安，还可利用RS232、RS422、RS485接口应用在多样的串行设备及远程控制管理、移动型远程检测等多种应用。

Features

- IEEE 802.11 b/g
- 连接Infrastructure或是AD-HOC网络
- 无线信号强度标示 Wireless RSSI (Received Signal Strength Indication) 模式
- IPv6 (IPv4/IPv6双协议栈，自动设定地址)
- Soft AP (无AP的情况通过智能手机或是笔记本电脑设定及连接)
- 提供网页设定主要设定值 (IP, SSID, 有关无线安全功能) 功能
- 2dBi dipole 天线, SMA型态天线连接端口
- 提供多样的串行端口接口 (RS232/RS422/RS485)
- 企业用WPA保安功能 (EAP-TLS, EAP-TTLS, PEAP)
- 安全功能 (IP Filtering, Password, WEP, WPA-PSK, WPA2-PSK)
- 提供通过AT命令的参数设定及通信功能 (专利)
- 支援多种HOST连接模式(TCP服务器, TCP客户端, AT 命令模式, UDP)
- 多种通信状态检测功能 (Debugging Mode, ezManager, TELNET)
- 支持DHCP (可在动态IP环境下使用)
- 通过HOST服务器的简单连接 (DNS)
- 动态IP环境下有益的IP地址通报功能 (DDNS / TCP, UDP)
- 串行端口状态信息送/收功能 (TELNET COM Port Control Option - RFC2217)
- 提供使用简单的远程设定实用程序 (ezManager)
- PC用串行 → TCP/IP 虚拟系统(ezVSP)无偿提供
- 提供通过串行端口的固件升级功能

System Diagram



Specifications

Serial Physical Interface	
Serial Interface	RS232 - RXD, TXD, RTS, CTS, GND
	RS422 - TX+, TX-, RX+, RX-, GND with embedded 3.9K biasing resistors and TVS
	RS485 - TRX+, TRX-, GND with embedded 3.9K biasing resistors and TVS
	±15KV ESD Protection
Serial Port Properties	
Baudrate	300bps ~ 230,400bps
Data Bits	5, 6, 7, 8 bits
Properties	None, Even, Odd, Mark, Space
Stop Bit	1, 2
Network Physical Interface	
Wireless LAN Interface	IEEE802.11b/g Wireless LAN
	Supplied with a dipole 2dBi Antenna
	SMA Connector for an Antenna
Software Functions	
WiFi Mode	Ad-Hoc, Infrastructure
	Soft AP : WEP, Simple DHCP Server
Protocols	IPv4/IPv6 Dual Stack, ICMPv6/TCPv6/UDPv6
	TCP, UDP, IP, ICMP, ARP, TELNET
	DHCP, DNS, DDNS
	TELNET COM Port Control Option (RFC 2217)
Security	WEP, WPA-PSK, WPA2-PSK
	WPA-Enterprise : EAP-TLS, EAP-TTLS, PEAP
	IP & MAC Filtering - Restrict Host or Network
	Password for Configuring
Communication Mode	TCP Server (T2S)
	TCP Client (COD)
	TCP Server/Client with AT Command (ATC) - Patent
	UDP Mode (U2S)
Additional Functions	Debug Function
	Sending MAC address Option
	Factory Reset
	Wireless RSSI (Received Signal Strength Indication) Mode
Indicators (LEDs)	
Power	Red
Status	Yellow, The current status
Wireless LAN Link	Green
Wireless LAN RXD	Yellow
Wireless LAN TXD	Green
Management	
ezManager	Configuration and Monitoring through Network and Serial
TELNET	TELNET Login
AT Command	Configuring in ATC Mode - Patent
Supplementary Software	
ezManager	Configuration Tool for Windows through Network and serial
ezVSP	Serial to Network Virtual Driver for Windows
ezTerm	Simple TCP/IP Communication Test Tool
Dimension	
Size	88.5mm x 57.0mm x 23.0mm (Without an Antenna)
Operating Environment	
Input Voltage	DC 5±0.5V
Current Consumption	260mA Typical
Operating Temperature	-10℃ ~ +70℃
Storage Temperature	-40℃ ~ +85℃