SOLLAE SYSTEMS

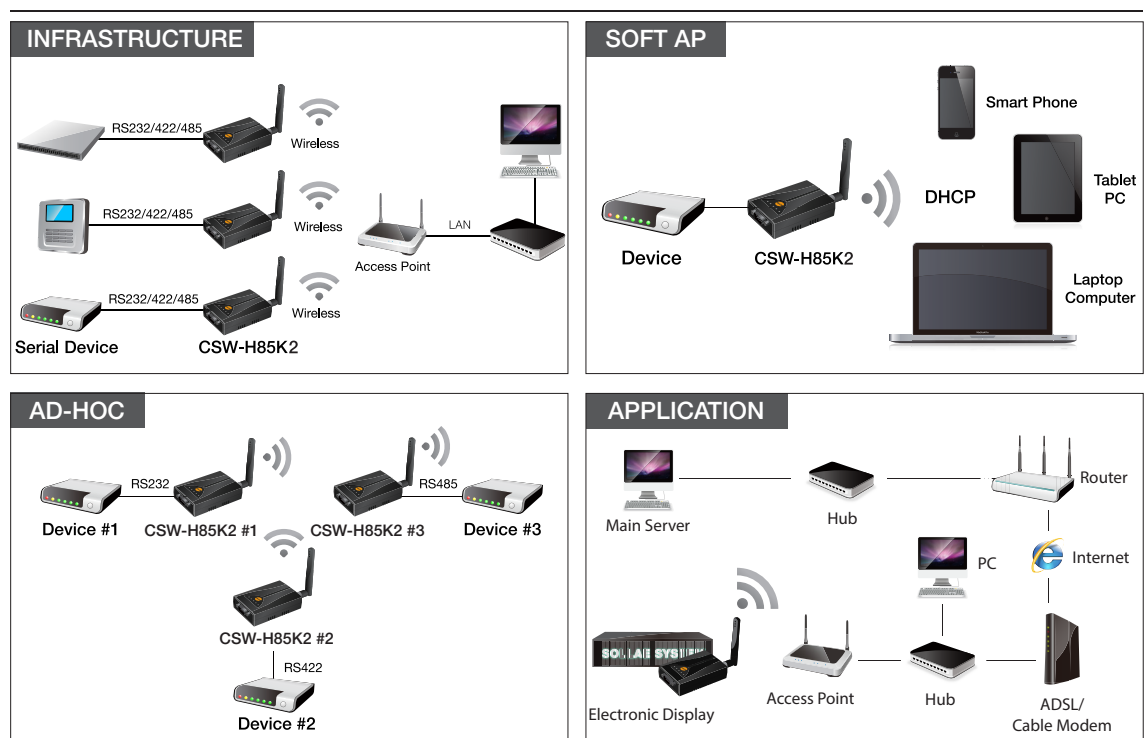# CSW-H85K2 | Serial to WLAN Converter

Overview

As well as basic functions, CSW-H85K2 has additional developed features with simple black design. It comes with Wireless RSSI and Soft AP mode, making it convenient and easier to manage your products. Embedded with IPv4/IPv6 dual stacks, it assists you to take necessary steps to handle a transition to IPv6.

With an enhanced wireless encryption protocol (WPA-Enterprise), CSW-H85K2 is especially suitable for environments where maximum security is demanded. Finally, CSW-H85K2 has expanded the capability of serial interfaces (RS232/RS422/RS485) to broaden its application area.

Features

- IEEE 802.11 b/g
- Infrastructure and Ad-Hoc
- Wireless RSSI (Received Signal Strength Indication) Mode
- IPv6 (IPv4/IPv6 Dual stack, Autoconfiguration)
- Soft AP (Setting and connection through smartphones or laptops without an AP is available)
- Setting up main parameters (IP, SSID, and security functions related to WLAN) on the Web
- WPA-Enterprise (EAP-TLS, EAP-TTLS, PEAP)
- Security Options (IP Filtering, Password, WEP, WPA-PSK, WPA2-PSK)
- 2dBi Dipole Antenna, SMA Connector for External Antennas
- Various Interfaces for Serial Port (RS232, RS422, RS485)
- Flexible Configuration and Network Communication by AT Commands (Patent)
- 4 Communication Modes (TCP Server, TCP Client, AT Command and UDP)
- A variety of ways to Monitor Communication Status (Debugging Mode, ezManager, TELNET)
- Support of DHCP for DSL and cable network
- DNS (Easy access using domain name)
- IP Change Notification for Dynamic IP Address Management (DDNS/TCP,UDP)
- TELNET COM Port Control Option (RFC2217)
- Powerful Management Software for Windows OS (ezManager)
- Virtual COM Port Redirector for Windows OS (ezVSP)
- Firmware upgrade through serial communications

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

Supplenetary 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℃