# CSW-H85K

(Serial to WLAN Converter)



### **Overview**

As well as basic functions, CSW-H85K has contained more developed features in simple black design. It comes with Wireless RSSI and Soft AP mode, making it convenient and easier to manage your products. Also, it is embedded with the IPv4/IPv6 dual stacks that help you take the necessary steps to handle a transition to IPv6.

With an enhanced wireless encryption protocol (WPA-Enterprise), CSW-H85K is especially suitable for where maximum security is demanded. And finally, CSW-H85K 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 a Smartphone or Laptop without an AP Available)
- 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 a 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
- · Environmentally-friendly RoHS Compliant

#### Icons















































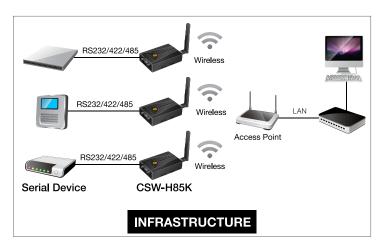
## **Specifications**

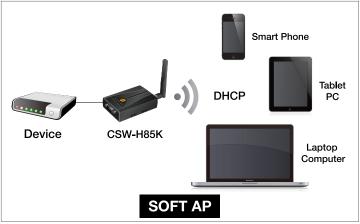
Serial Physical Interface		
Serial Interface	RS232 - RXD, TXD, RTS, CTS, DTR, GDN	
	RS422 - RX+, RX-, TX+, TX-, GDN	
	RS485 - TRX+, TRX-, GDN	
	±15KV ESD Protection	
Serial Port Properties		
Baudrate	300 bps ~ 230,400 bps	
Data Bits	5, 6, 7, 8 bits	
Parity	None, Even, Odd, Mark, Space	
Stop Bit	1,2	
Flow Control	RTS/CTS Hardware	
Network Physical Interface		
Wireless LAN Interface	IEEE802.11b/g Wireless LAN	
	Supplied with a dipole 2dBi Antenna	
	SMA Male Connector for an Antenna	
Software Functions		
WiFi Mode	Ad-Hoc, Infrastructure	
	Soft AP : WEP, Simple DHCP Server	
	IPv6: IPv4/IPv6 Dual Stack, ICMPv6/TCPv6/UDPv6	
Protocols	TCP, UDP, IP, ICMP, ARP, TELNET	
	DHCP, DNS, DDNS	
	TELNET COM Port Control Option (RFC 2217)	
	WEP, WPA-PSK, WPA2-PSK	
Security	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	

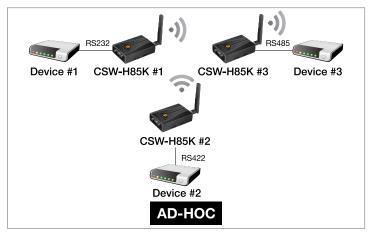
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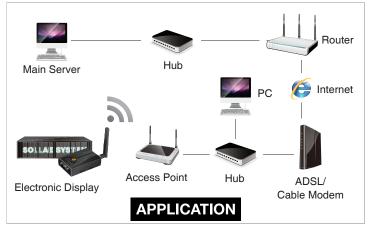
Processor		
CPU	ARM7 Core	
Management		
ezManager	Configuration and Monitoring through Network and Serial	
TELNET	Telnet Login	
AT Command	Configuring in ATC Mode - Patent	
Supplenetary Software		
ezManager	Configuration Tool for Windows through Network and serial	
ezVSP	Serial to Network Virtual Driver for Windows	
ezTerm	Simple TCP/IP Communication Test Tool	
Dimension		
Size	88.5mm x 57mm x 23mm (Without an Antenna)	
Body Netweight	Approximately 64g (Without an Antenna)	
	Approximately 77g (With an Antenna)	
Operating Environment		
Input Voltage	DC 5±0.5V	
Power Consumption	260mA Typical	
Operating Temperature	-10℃ ~ +70℃	
Storage Temperature	-40℃ ~ +85℃	

### System Diagram









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