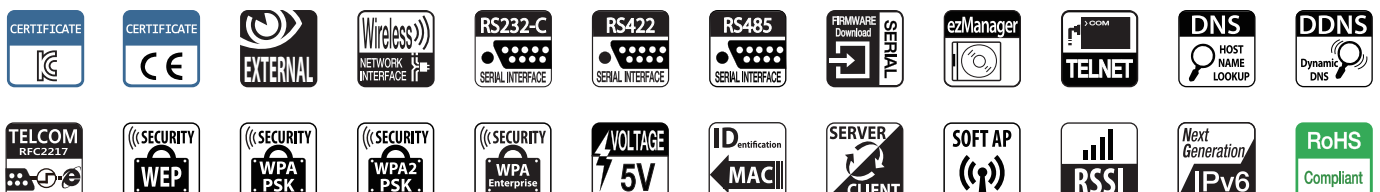# CSW-H85K
(Serial to WLAN Converter)

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 smartphones or laptops without an AP 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 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

Icons

| CERTIFICATE KC | CERTIFICATE CE | EXTERNAL | Wireless NETWORK INTERFACE | RS232-C SERIAL INTERFACE | RS422 SERIAL INTERFACE | RS485 SERIAL INTERFACE | FIRMWARE Download SERIAL | ezManager | TELNET | DNS HOST NAME LOOKUP | DDNS Dynamic DNS |

| TELCOM RFC2217 | SECURITY WEP | SECURITY WPA .PSK. | SECURITY WPA2 .PSK. | SECURITY WPA Enterprise | VOLTAGE 5V | IDentification MAC | SERVER CLIENT | SOFT AP | RSSI | Next Generation IPv6 | RoHS Compliant |

Specifications

Serial Physical Interface	
Serial Interface	RS232 - RXD, TXD, RTS, CTS, GND
	RS422 - RX+, RX-, TX+, TX-, GND
	RS485 - TRX+, TRX-, GND
	±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
Flow Control	RTS/CTS Hardware
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

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
Current Consumption	260mA Typical
Operating Temperature	-10℃ ~ +70℃
Storage Temperature	-40℃ ~ +85℃

System Diagram

INFRASTRUCTURE

SOFT AP

AD-HOC

APPLICATION