

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
Protocols	IPv6 : 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

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

System Diagram

