

# CSW-H85F

(Serial to WLAN Converter)



## Overview

CSW-H85F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，Reverse Polarity 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

## Icons



# 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	300 bps ~ 230,400 bps
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
	Reverse Polarity SMA connector for external antennas

## 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

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

## System Diagram

