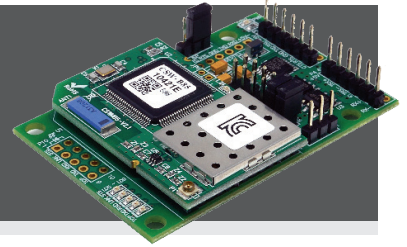


Data Sheet

CSW-B85 | Serial to WLAN Converter



Overview

CSW-B85是基于CSW-M85的板块型串行转无线模块(Embedded Serial to WiFi Board)。将按符合IEEE 802.11b/g无线标准的CSW-B85，通过串行连接到用户设备，不必变更软件的情况可轻松连接到无线网络。因此不仅可以扩张用户设备的通信距离，在铺线困难的环境也可方便的构成网络。CSW-B85内置了RS232, RS422, RS485, 3.3V UART，没有附加的电路设计，可根据用户串行环境选择使用。

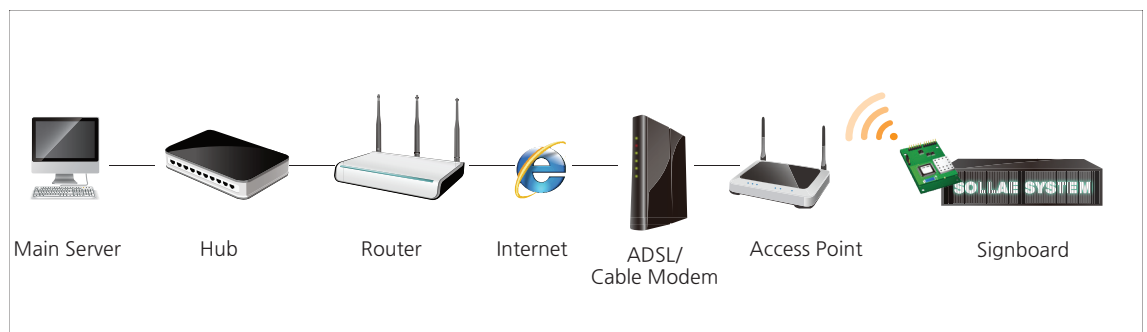
CSW-B85内置了芯片型天线，不需另加天线即可使用,而且通过外置型天线用U.FL Socket，可应用另外的天线，故适用于多样的无线环境下。另外使用Soft AP功能的情况，没有AP的情况也可构成无线网络,通过此功能，利用提供Wi-Fi功能的手机设备，可简单快捷的监视及控制串行设备。CSW-B85同时支持IPv4及IPv6地址体制，故在投入新标准IPv6的情况也可使用。

CSW-B85支持各种需要无线通信的串行设备,特别适用于信用卡结算系统 等多种应用中。

Features

- 1 x RS232/RS422/RS485
- 内置IEEE 802.11 b/g无线网络模块
- 内置芯片型天线, 连接外置天线用U.FL Socket
- IPv6 (IPv4/IPv6 双重协议栈)
- 自动设定Stateless/Stateful(DHCPv6)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)
- 主要设定值(IP, SSID,无线安保相关功能)提供网络设定功能
- 无线网络信号级别(RSSI)模式
- 企业用WPA保安功能 (EAP-TLS, EAP-TTLS, PEAP)
- 保安功能(IP Filtering, Password, WEP, WPA-PSK, WPA2-PSK)
- 数据包分隔符设定功能
- 内置为了产品保护的ESD电路

Application



Specifications

Serial Interface	
Serial Interface	1 x UART, 3.3V level with 5V tolerant input (RXD, TXD, RTS, CTS, GND)
	RS232(RXD, TXD, RTS, CTS, GND)
	RS485(TRX+, TRX-, GND)
	RS422(TX+, TX-, TX+, RX-, GND)
Connector	2.5mm Header
Serial Port Properties	
Data Rate	300bps ~ 230,400bps
Data Bits	5, 6, 7, 8 bits
Parity	None, Even, Odd, Mark, Space
Stop Bit	1, 2
Flow Control	None, RTS/CTS, Xon/Xoff
Network Physical Interface	
Wireless LAN Interface	IEEE802.11b/g wireless LAN
	Chip Antenna/U.FL Connector(Selectable)
Software Functions	
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
	RSSI(Received Signal Strength Indication) Mode
Indicators (LEDs)	
Normal Operation	Status, LAN Link, LAN RXD, LAN TXD, TCP
RSSI Mode	Level 4, Level 3, Level 2, Level 1, TCP
Management	
ezManager	Configuration and Monitoring through Network and Serial
Telnet	Telnet Login
AT Command	Configuring in ATC mode - Patent
Supplementary Software	
ezManager	Configuration Tool for Windows
ezVSP	Serial to Network Virtual Driver for Windows
ezTerm	Simple TCP/IP Communication Test Tool
Dimension	
Size	60.0mm x 42.0mm
Operating Environment	
Input Voltage	DC 5V (±0.5V)
Power Consumption	260mA typical
Operating Temperature	-10°C ~ +70°C
Storage Temperature	-40°C ~ +85°C