

Data Sheet

CSW-M83 | Embedded Serial WLAN Converter



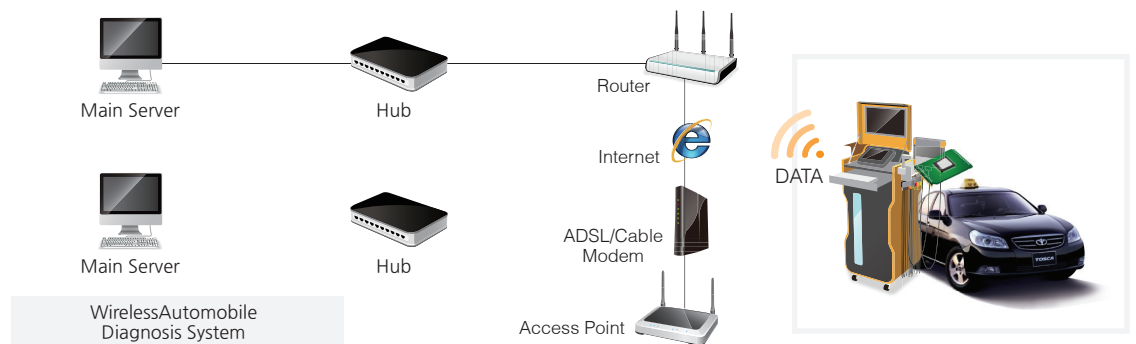
Overview

CSW-M83是为了远程控制及管理串口设备而提供连接到无线网络的串口<-->无线局域网的模块。将CSW-M83连接到现有设备中，在不改变现有软件系统下可以方便地连接到网络。换句话说在TCP/IP协议下传送数据时，自动处理数据，将没有TCP/IP技能的用户设备轻松地连接到因特网中。不仅如此，由于连接到了因特网，故可以将现有的串口设备的通信距离进行扩张。可使用外置型USB形态连接无线网络，所以不需要考虑RF认证。

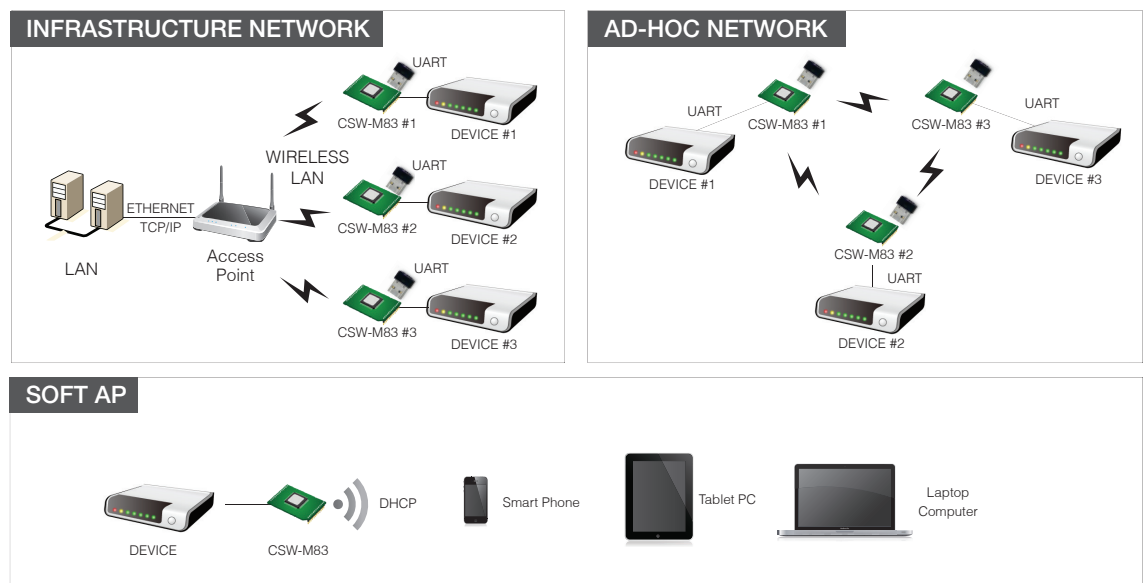
Features

- 1 x UART(3.3V level)
- 提供连接IEEE 802.11 b/g无线网络的USB端口
- 支持应用Ralink RT3070或是RT5370芯片的USB无线适配器
- 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安保功能 (EAP-TLS, EAP-TTLS, PEAP)
- 安保功能(IP Filtering, Password, WEP, WPA-PSK, WPA2-PSK)
- 数据包分隔符设定功能

Application



System Diagram



Specifications

Serial Interface	
Serial Interface	1 x UART, 3.3V level with 5V tolerant input RXD, TXD, RTS, CTS, GND
Connector	1x12 2mm pitch header x 2
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 Ralink RT3070/5370 USB WLAN dongle required
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)	
Power	Red
Status	Yellow, The current status
Management	
ezManager	Configuration and Monitoring through Network and Serial
Telnet	Telnet Login
AT Command	Configuring in ATC mode - Patent
Suplenetary Software	
ezManager	Configuration Tool for Windows
ezVSP	Serial to Network Virtual Driver for Windows
ezTerm	Simple TCP/IP Communication Test Tool
Dimension	
Size	40.0mm x 28.0mm
Operating Environment	
Input Voltage	DC 5±0.5V
Power Consumption	115mA Typical
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-40°C ~ +85°C