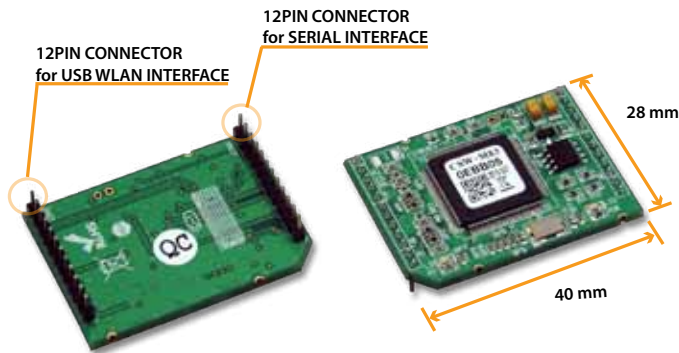


# CSW-M83

## (Embedded Serial WLAN Converter)



## Overview

CSW-M83 is a wireless LAN converter for serial devices.

This modular type product helps your product add wireless network connectivity simply.

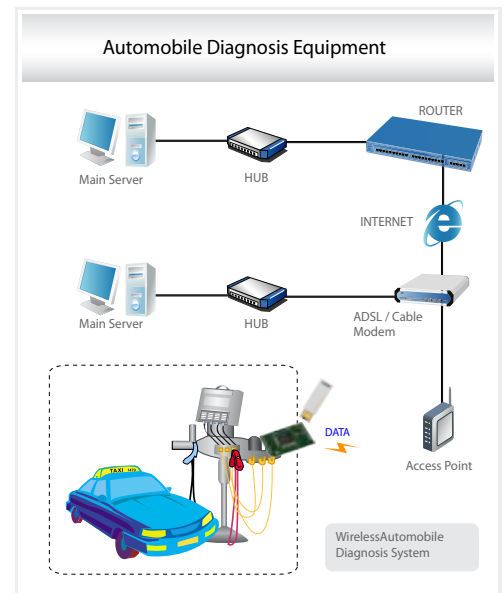
Applying this product, not only you can reduce cost and risk, but also you can shorten development time to add the wireless LAN network capability.

Because a USB wireless LAN dongle is installed on outside of the product, it makes you free from RF approvals.

## Highlights

- 3.3V logic level UART to Wireless LAN Converter
- IEEE 802.11 b/g/n
- Infrastructure and Ad-hoc network
- A Ralink RT3070 USB Wireless LAN dongle required
- 1 x UART (up to 230,400bps)
- WLAN Security protocol : WEP, WPA-PSK(TKIP), WPA2-PSK(AES)
- Access Restriction : IP and MAC address filtering, Password
- Flexible configuration and network communication by 'AT Commands' (patent)
- 4 Communication modes (TCP server, TCP client, AT Command and UDP)
- Variety of monitoring status (ezManager, Telnet)
- DHCP and PPPoE
- DNS (easy access using domain name)
- DDNS (dynamic IP address management by domain name)
- IP Change Notification for dynamic IP address management (TCP, UDP and DDNS)
- Telnet COM Port Control Option (RFC 2217)
- Firmware upgrade through Serial
- Powerful management software for Windows OS (ezManager)
- Virtual COM Port Redirector for Windows OS (ezVSP)
- Environmentally-friendly RoHS compliant

## Applications



## Specifications

### \*Serial Physical Interface

#### Serial Interface

1 x UART Port (3.3V Logic Level)  
RXD, TXD, RTS, CTS

#### Connector

12x1 2mm header

### \*Serial Port Property

#### Baudrate

300 bps ~ 230400 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

#### Network Interface

IEEE802.11b/g/n wireless LAN

USB(12x1 2mm header)

Ralink RT3070 USB wireless LAN dongle required

### \* Software Functions

#### Protocols

TCP, UDP, IP, ICMP, ARP, TELNET

DHCP, DNS, DDNS, PPPoE

Telnet COM Port Control Option (RFC 2217)

#### Security

WEP, WPA-PSK(TKIP), WPA2-PSK(ASE)

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

### \* Indicators(LEDs)

#### Status

Green

#### USB Power

Yellow(Turned on if USB Power is on)

#### Status

External Interface

wireless LAN Link

External Interface

wireless LAN RXD

External Interface

wireless LAN TXD

External Interface

### \* Processors

#### CPU

ARM7 Core

#### ROM

512K bytes Flash Memory

#### RAM

96K bytes SRAM

### \* Management

#### ezManager

Configuration and Monitoring through ethernet and serial

#### Telnet

Telnet Login

#### AT Command

Configuring in ATC mode - Patent

### \* Supplenetary Software

#### ezManager

Configuration Tool for Windows through WLAN and serial

#### ezVSP

Serial to Network Virtual Driver for Windows

#### ezTerm

Simple TCP/IP Communication Test Tool

### \* Dimension

#### Size

40mm x 28mm

#### Body Netweight

About 6g

### \* Operating Environment

#### Input Voltage

DC 5±0.5V

#### Power Consumption

140mA Typical (without USB dongle)

#### Operating Temperature

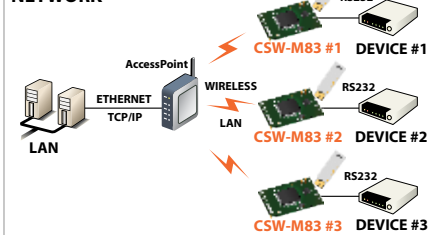
-20℃ ~ +70℃

#### Storage Temperature

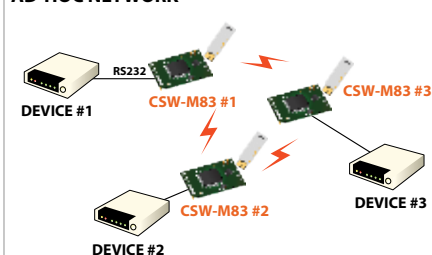
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## System Diagram

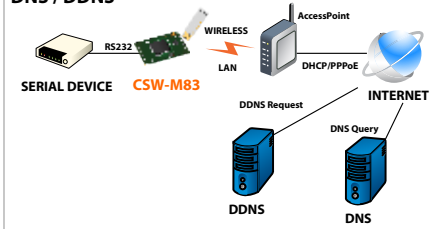
### INFRASTRUCTURE NETWORK



### AD-HOC NETWORK



### DNS / DDNS



### Network Application

