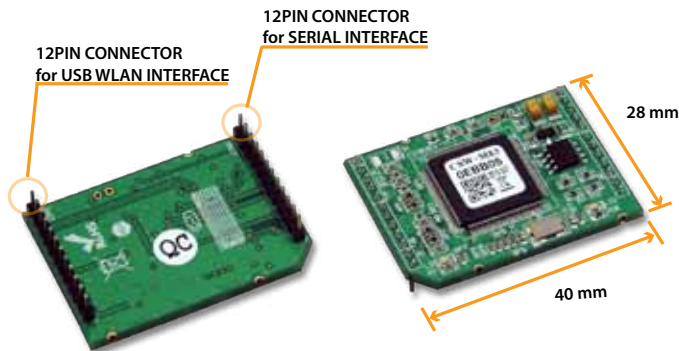


CSW-M83

(Embedded Serial WLAN Converter)



Highlights

- 3.3V logic level UART to Wireless LAN Converter
- IEEE 802.11 b/g
- 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

Overview

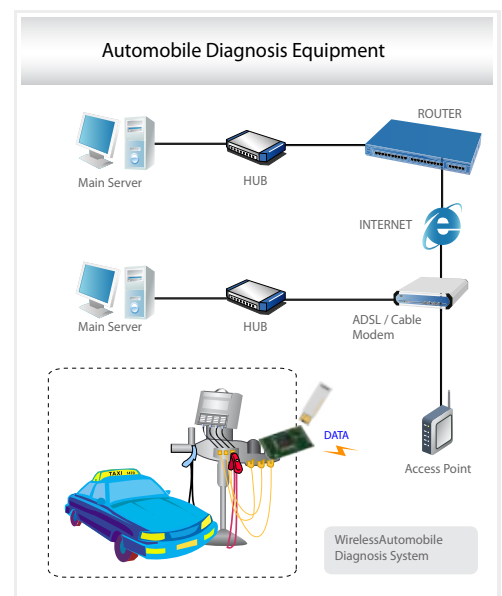
CSW-M83 is a wireless LAN converter for serial devices.

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.

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 ~ 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

Network Interface
IEEE802.11b/g wireless LAN
USB(12x1 2mm header)
Ralink RT3070 USB wireless LAN dongle re-quired

* 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
115mA Typical (without USB dongle)
Operating Temperature
-20℃ ~ +70℃
Storage Temperature
-40℃ ~ +85℃

System Diagram

