

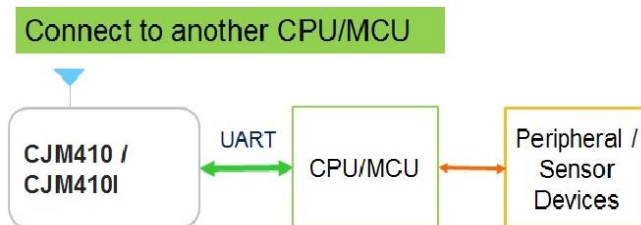
# CJM410 WiFi Module

## 802.11 b/g/n Low Power Embedded Wi-Fi Module



### PRODUCT OVERVIEW

The CJM410 WiFi module provides a highly-integrated and flexible platform for developing and evaluating products and applications based on the QCA4010 SoC. The CJM410 is a single band 1X1 802.11 b/g/n device optimized for low-power embedded applications with single-stream capability for both Tx and Rx. It has an integrated network processor with a large set of TCP/IP with IPv4/IPv6-based services. These services can be accessed via a serial SPI link or by a UART link connected to an external host CPU.



The CJM410 module has rich I/O interfaces which are flexible for IOT variable applications. It also has larger memory size and suitable for software development of customers on the AllJoyn platform. The feature of low power consumption will save energy of devices which is good for energy-awareness applications.

### FEATURES

- Highly integrated 802.11b/g/n 1x1 Wi-Fi radio data rate is up to 65 Mbps
- Support Soft AP / STA / SoftAP+STA / P2P mode
- Support 802.11i security WEP/WPA/WPA2
- Easy configuration through command line shell / web page / network protocol
- Easy firmware upgrade through wireless
- Rich I/O interfaces such as SPI , debug UART, I2C, I2S, PWM, ADC, - High speed UART is up to 3Mbps
- RF output power 19dBm (802.11b), 20dBm (802.11g), 17dBm (802.11n)
- Easy integrated surface mount connection
- Single power source of 3.3V DC
- Certificate: FCC, IC, CE, RoHS Compliant

## CJM410 PRODUCT SPECIFICATIONS

<b>RF characteristics</b>	
Standard	IEEE 802.11 b/g/n 1x1 Wi-Fi radio
Operating Frequency	2.412 GHz ~ 2.484 GHz
Supported Data Rates	<ul style="list-style-type: none"> <li>● 802.11n: 6.5Mbps ~ 65Mbps (MCS 0 to 7, HT20)</li> <li>● 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>● 802.11b: 1, 2, 5.5, 11 Mbps</li> </ul>
Transmit Power (+/- 1.5dBm)	<ul style="list-style-type: none"> <li>● 802.11b: 19dBm</li> <li>● 802.11g: 20dBm@6Mbps,16dBm@54Mbps</li> <li>● 802.11n: 17dBm@MCS7</li> </ul>
Receiver Sensitivity	<ul style="list-style-type: none"> <li>● 802.11b: &lt;-76dBm</li> <li>● 802.11g: &lt;-65dBm</li> <li>● 802.11n: &lt;-64dBm</li> </ul>
Antenna Options	Printed antenna or MHF RF connector (optional)
<b>Hardware Characteristics</b>	
Chipset	Qualcomm Atheros QCA4010 SoC with Xtensa processor, up to 130 MHz
Memory	RAM: 1.4 MB, external SPI flash : 1.5 MB
I/O Interfaces	<ul style="list-style-type: none"> <li>● SPI slave x 1, debug UART x 1</li> <li>● High speed UART x 2: up to 3Mbps</li> <li>● I2C master x 1, I2C slave x 1 I2S x 1, PWM x 6, ADC x 4</li> </ul>
Operating Temperature	0 °C ~ 85°C
Storage Temperature	-40 °C ~ 135°C
Power source	3.3 V I/O supply voltage
Dimension	30(l) mm x16(w) mm x 2.6(h) mm
<b>Software</b>	
Firmware Option	CONJING Firmware
Wireless Mode	Soft AP / STA / SoftAP+STA / P2P mode
Wireless Security	WEP, WPA/WPA2 Personal, WPA/WPA2
Network Protocol	TCP, UDP, HTTP client, HTTP server, DHCP, DNS, SNTP, OTA firmware upgrade
OS Supported	Qualcomm AllJoyn platform
Power Consumption	13.71 uA ~ 254.9 mA
<b>Certificate and Compliant</b>	
	FCC, IC, CE, RoHS Compliant

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