

RTL8710 WiFi Module

SKU 113990294



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Description

RTL8710 Wifi Module is a low-cost wireless IoT platform based on Realtek RTL8710 ARM Cortex-M3 Processor 166MHz. It is tiny but could be prove to be an interesting alternative with its stronger MCU, 1MB ROM, 512KB RAM, built-in 1MB Flash and faster Wifi performance.

RTL8710 Wifi Module uses FreeRTOS as the go-to operating system and can be debugged and programmed using RealTek's RTL8710 SDK over a micro USB connection. It packs up to 17 GPIO, up to 3 I2C, up to 2 PCM, 4 PWM and two high-speed UART and one low-speed. For Wi-Fi, it has a speed of up to 150 Mbps over an 802.11n connection and a top speed of 54 Mbps over 802.11g. Detailed spec as below.

RTL8710 Wifi Module offers an even lower cost even stronger processor. So it helps to provide another better choice on WIFI IoT platform for makers, hobbyists, Hardware engineers and Software engineers, cheaper and more powerful

Key Features

- 802.11 b/g/n, CMOS MAC
- Built-in 32 bit CPU, application processor
- Built-in TCP/IP protocol
- WiFi @ 2.4 GHz, support WPA/WPA2
- Support STA/AP/STA+AP
- Support Smart Config (Include Android and iOS devices)
- SPI , UART, I2C, I2S, GPIO
- Awaken in 2 m, connect and delivery data
- 802.11b + 17 dBm output power

Category	Feature	Spec.
Wireless Paramete rs	Wireless standard	802.11 b/g/n
	Frequency	2.4GHz~2.5GHz(2400M~2483.5M)
Hardware Paramet	CPU	ARM Cortex M3 (166MHz)
	ROM/RAM/Flash	1MB/512KB/1MB
	SPI	Up to 2
	I2C	3
	GPIO	17

	Working Voltage	3.0~3.6(3.3V)
	Working Temperature	-20~85
	Package Size	24mm*16mm*0.8mm
	Wireless network model	Station/SoftAP/SoftAP+Station
Software Parameters	Wifi	802.11n up to 150 Mbps, 802.11g up to 54 Mbps
	Network Protocol	TCP/UDP/HTTP/FTP
	Security	WPA/WPA2
	Update Firmware	Local serial port/OTA/Host download
	User configuration	AT+ instruction set, cloud server

Part List

RTL8710 Wifi Module * 1

Technical Details

Weight	G.W 3g
Battery	Exclude

Part List

RTL8710 WiFi Module	1
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Documents

- B&T RTL-00 AT Commands
- RTL8710 wifi module specification V2.1 .pdf

Reviews

★★★★★

November 11,2017 by Anonymous User

Was this review helpful ? 0

★★★★★

November 02,2017 by Anonymous User

Was this review helpful ? 0

★★★★★

October 24,2017 by Anonymous User

Was this review helpful ? 0

Questions and Answers

Have a question about this? Ask people who own it.

▲

1

Since it is not an obvious link, where is the information for communication and software for programming this?
rohde1017 on Feb 15,2017

Reply | upvote (1)

Also <https://hackaday.io/project/19163-rtl8710-easy-programming-by-arduino-ide>
roddines on Mar 01,2017 11:54 AM

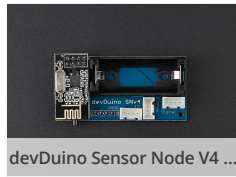
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<https://github.com/Ameba8195/Arduino>
roddines on Mar 01,2017 12:55 PM

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