

Cino

FuzzyScan Wi-Fi Module RM3510

User's Guide

Introduction

You can connect to other Wi-Fi wireless devices by integrating the RM3510 module to your device.

Specification

Brand Name	Cino
Product Name	Wi-Fi Module
Model Number	RM3510
RF Standard	IEEE 802.11b/g
RF Frequency	Country dependant; Typical 2.4 to 2.5 GHz
Data Modulation	DSSS(DBPSK/ DQPSK/ CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate (Mbps)	DSSS(1/2/5.5/11); OFDM(6/9/12/18/24/36/48/54)
Channel Number	11b/g: 11
Channel Band Width (99%)	11b: 13.88MHz; 11g: 16.52MHz
Conducted Output Power	11b: 8.94 dBm 11g: 10.86 dBm
Power Type	From host
Dimension	12.5 x 16.6 mm
Operating Temperature	-10 ~ +50°C
Storage Temperature	-40 ~ +70°C
Humidity	5 ~ 95% (non-condensing)

Pin Assignment

No	Pin Name	Type	Description
1	GND	GND	Ground
2	SD_D1	I/O	SDIO 4-bit Mode: Data Line Bit [1] G-SPI Mode: G-SPI Data Output
3	SD_D3	I/O	SDIO 4-bit Mode: Data Line Bit [3]
4	RESETn	I	Reset (Active Low) , leave open if no use.
5	SD_CLK	I/O	SDIO 4-bit Mode: Clock Input G-SPI Mode: G-SPI Clock Input
6	SD_CMD	I/O	SDIO 4-bit Mode: Command / Response G-SPI Mode: G-SPI Data Input
7	N/C		
8	N/C		
9	N/C		
10	VDD_33	POWER	Connect to 3.3V DC supply
11	N/C		
12	SD_D0	I	SDIO 4-bit Mode: Data Line Bit [0] G-SPI Mode: G-SPI Chip Select Input (Active Low)
13	SD_D2	I/O	SDIO 4-bit Mode: Data Line Bit [2] G-SPI Mode: G-SPI Interrupt Output (Active Low)
14	N/C		
15	GND	GND	Ground
16	WL_ACTIVE	O	WLAN Active (Active Low) 2-Wire BCA Mode When high, WLAN is transmitting or receiving packets. 3-Wire BCA Mode 0 = Bluetooth device is allowed to transmit 1 = Bluetooth device is not allowed to transmit Internal 50kohm pull-down. This pin drives low when PDn is asserted. In WLAN Sleep mode, all I/O Pads are powered down. This Pad must stay at a low state even in power down mode. Please make it open when do not use it.
17	PDn	I	Pull up by 100kohm, Full Power Down (Active Low)
18	GPIO_0	I/O	General I/O Port , leave open if no use.
19	GND	GND	Ground

Regulatory Information

The Wi-Fi is designed to be interoperable with any Wi-Fi technology product that is incorporating Direct Sequence Spread Spectrum (DSSS) and OFDM data modulation and complies with the IEEE 802.11b/g.

Safety

The Wi-Fi, like other radio devices, emits radio frequency electromagnetic energy. The level of energy emitted by this device, however, is less than the electromagnetic energy emitted by other wireless devices such as mobile phones. The Wi-Fi device operates within the guidelines found in radio frequency safety standards and recommendations. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature. In some situations or environments, the use of a Wi-Fi device may be restricted by the proprietor of the building or responsible representatives of the applicable organization. Examples of such situations include the following:

- ☐ Using the Wi-Fi equipment onboard airplanes, or
- ☐ Using the Wi-Fi equipment in any other environment where the risk of interference with other devices or services is perceived or identified as being harmful.

If uncertain of the policy that applies to the use of wireless devices in a specific organization or environment (an airport, for example), ask for authorization to use the Wi-Fi device before turning it on.

This device has been certified to the following radio standards:

FCC Part 15 Subpart C, IC Part 15 Subpart C

CE EN300 328, Taiwan LP0002 (NCC)

Japan TELEC T401 (MIC)

Warning

802.11b/802.11g/BT警語：

第十二條→經型式認證合格之低功率射頻電機，非經許可，公司，商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條→低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

安裝平台上需標示「本產品內含射頻模  CC XX xx YY yyy Z z W

Federal Communication Commission Interference Statement

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **20cm** between the radiator & your body.

LABEL OF THE END PRODUCT:

The final end product must be labeled in a visible area with the following " Contains TX FCC ID: SBC-RM3510 ". If the size of the end product is larger than 8x10cm, then the following FCC part 15.19 statement has to also be available on the label: This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.