

EM357+SKY65344 Zigbee Module Hardware Reference Design

Ver: V1.0

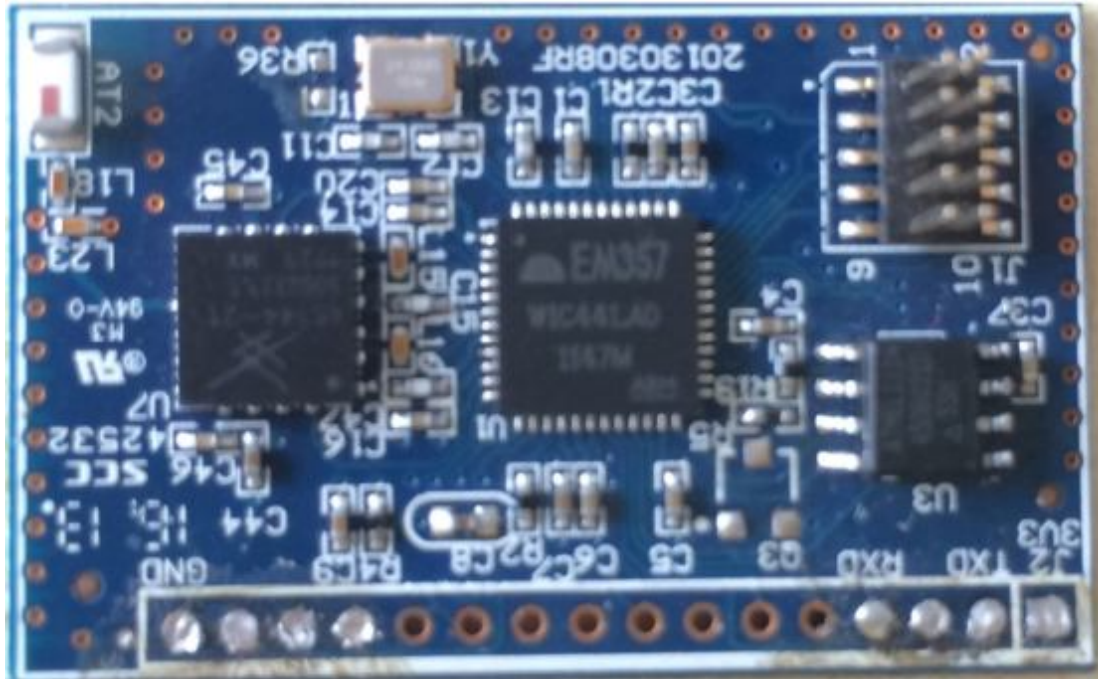
Date:2015-11-10

1、Function parameters

Parameters	Value	Remark
Communication	IEEE802.15.4(ZigBee)	N/A
Communication Frequency	2405M Hz ~ 2480M Hz	N/A
Communication Distance	60m ~ 90m	Visual range
Transmit power	12.83dbm	N/A
Receiving sensitivity	-90dbm	N/A
Working temperature range	-20°C ~ 50°C	N/A
Working humidity	0%RH ~ 95%RH	N/A
Certified	RoHS/CB/CE	N/A
Size	38mm×25mm×4mm	N/A

2、Interface

2.1 Module Appearance



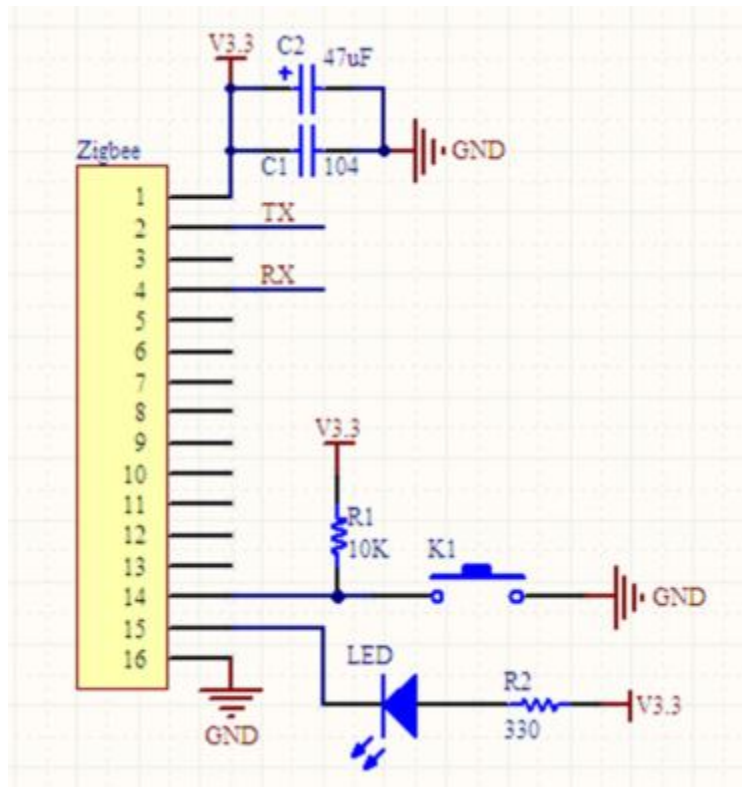
2.2 Pin Description

Pin#	Signal	Direction	Description
1	Vcc	Power	2.1-3.6V Power Supply
2	TxD	O	UART transmit data of Serial
3	NC		
4	RxD	I	UART receive data of Serial

5-13	NC		
14	EXT_NET/RST	OC	Continuous low level, More than 200 ms, less than 5 s.Module Reset . Continuous low level, More than 5s.Module Exit Network
15	Led Indicator	O	Low Level effective
16	GND	Power	Ground

2.23 Application Reference

Any company of the host device which install this modular with limit modular approval should perform the test of radiated emission and spurious emission according to FCC part 15C : 15.247 and 15.209 requirement. Only if the test result comply with FCC part 15C : 15.247 and 15.209 requirement, then the host can be sold legally.



FCC Statement

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.

Caution!

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

FCC Radiation Exposure Statement

The modular can be installed or integrated in mobile or fix devices only. This modular cannot be installed in any portable device, for example, USB dongle like transmitters is forbidden.

This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This modular must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

If the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: 2AGG6FJZB101 or Contains FCC ID: 2AGG6FJZB101 " .

The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.

When the module is installed inside another device, the user manual of this device must contain below warning statements:

1. 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.
(2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.