FUJIAN EADINGCORE INTELLIGENT TECHNOLOGY CO.LTD

EAC 2152 WiFi-Module Specification

（802.11b/g/n）

Version：V0.8

Date：2014/8/18

MODULE NAME:EAC 2152

FUJIAN EADINGCORE INTELLIGENT TECHNOLOGY CO.,LTD

Change Record

Author	Data	Version	Change Record
QuZhi	20140818	V0.8	

1. Introduction

1.1 Overview

EAC 2152 is a single-chip wifi module featuring intergrared IEEE 802.11 b/g/n. Its embedded high performance CPU can process advanced applications effortlessly ,such as WIFI data processing without overloading the host processor .In addition ,the module has rich hardware interfaces(UART/GPIO) to enable many possible applications . EAC 2152 works in AP mode(soft AP) or STA mode in which it support the new smart connection technique.

EAC 2152 provide SDK and many developing APIs for developers in the filed of intelligent home, IOT products , security , mobile devices and many other wifi products.

1.2 Features

- 3.3V power supply
- Stamp package
- Intergrated 32-bit RISC MIPS CPU core
- Highly Intergrated 55nm RF CMOS technology
- Support SoftAP/STA mode
- Support many networking protocols
- Support WFA WPA/WPA2 security protocols
- Support SMARTLINK in STA mode
- Support external antenna
- Support UART interfaces
- 150M/s data transfer speed

1.3 Applications

- Security check、automatic building

- Commercial wifi products

- Indoor automatic control

- Intelligent plug

- Intelligent home electronics

- Products with soft AP function

- Othe wireless product

2. Product description

2.1 Condition

	Min	Typ	Max	Unit
Voltage	2.97V	3.3V	3.63V	V
Temperature	0	-	70	
Humidity	-	-	90%	

2.2 Pin diagram
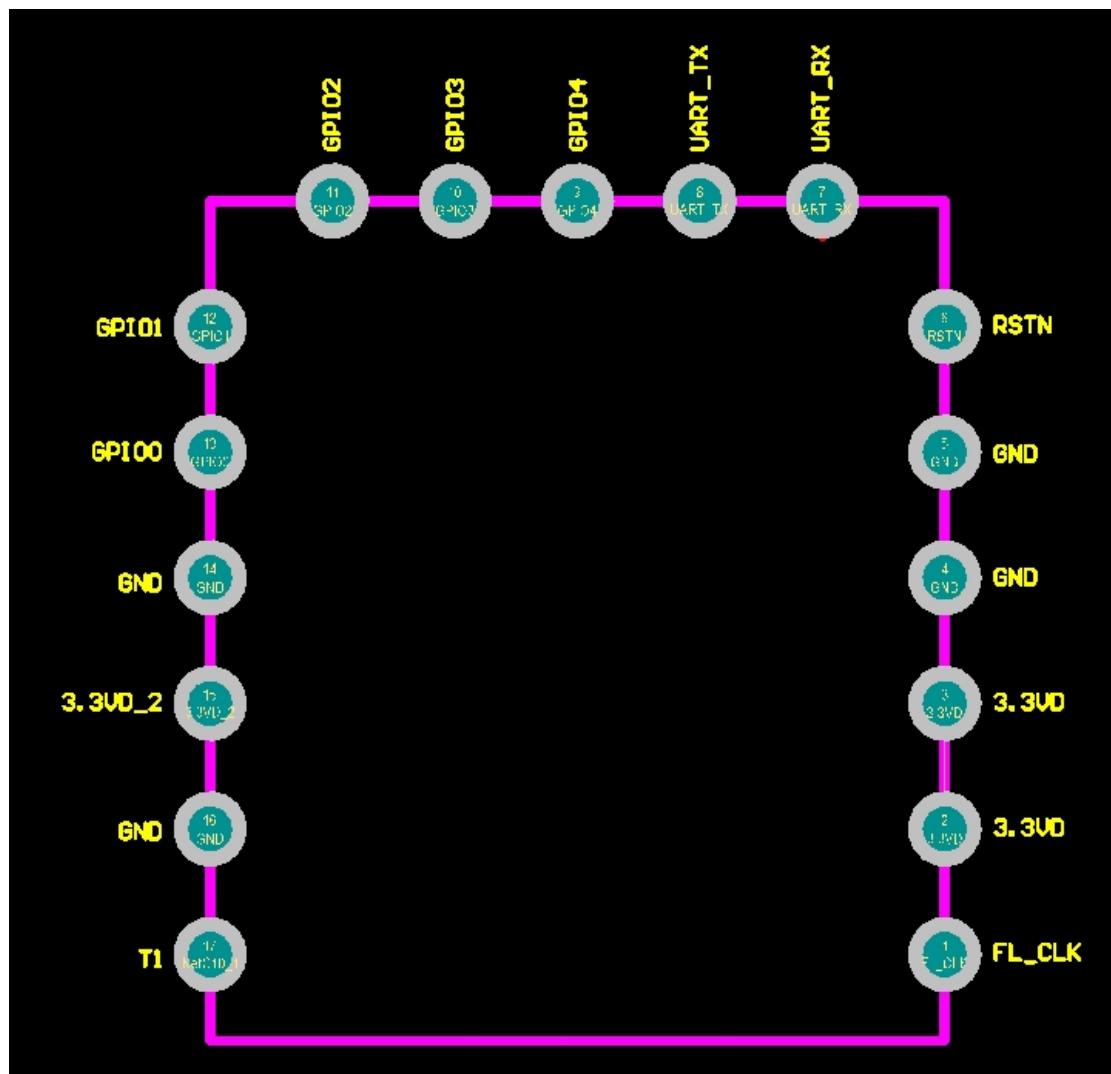
2.3 Pin description

No	Name	Description	Comment
1	TI	Wireless output	
2	GND	Ground	
3	3.3VD_2	Digital I/O power supply	
4	GND	Ground	
5	GPIO0	I/O	
6	GPIO1	I/O	
7	GPIO2	I/O	
8	GPIO3	I/O	
9	GPIO4	I/O	
10	UART_TX	-	
11	UART_RX	-	
12	RSTN	Reset chip	
13	GND	Ground	
14	GND	Ground	
15	3.3VD	Digital I/O power supply	
16	3.3VD	Digital I/O power supply	
17	FL_CLK	External clock	

2.4 Configure information

Programmable I/O					
30	GPIO0	Programmable input/output	PD	In/out	VDD33
31	GPIO1	Programmable input/output	PD	In/out	VDD33
29	GPIO2	Programmable input/output	PD	In/out	VDD33
28	GPIO3	Programmable input/output	PD	In/out	VDD33
27	GPIO4	Programmable input/output	PD	In/out	VDD33

FLASH interface					
8	EE_MISO	External memory data input / Antenna select	PD	Input	VDD33
9	EE_MOSI	External memory data output / Antenna select	PD	Output	VDD33
10	EE_CS	External chip select	PU	Output	VDD33
11	EEFL_CLK	External clock	PU	Output	VDD33

QFN40	Pin Name	Pin description	Default PU/PD
8	FLMISO	XTAL_20_SEL XTAL is 20MHz: Pull up XTAL is 40MHz: Pull down	PD
27	GPIO4	EXT_EE_SEL: Pull down	PD
25	UART_RX	CHIP_MODE[2]: Pull down	PD
11	FLCLK	CHIP_MODE[1]: Pull up	PD
9	FLMOSI	CHIP_MODE[0]: Pull down	PU

2.5 Package n
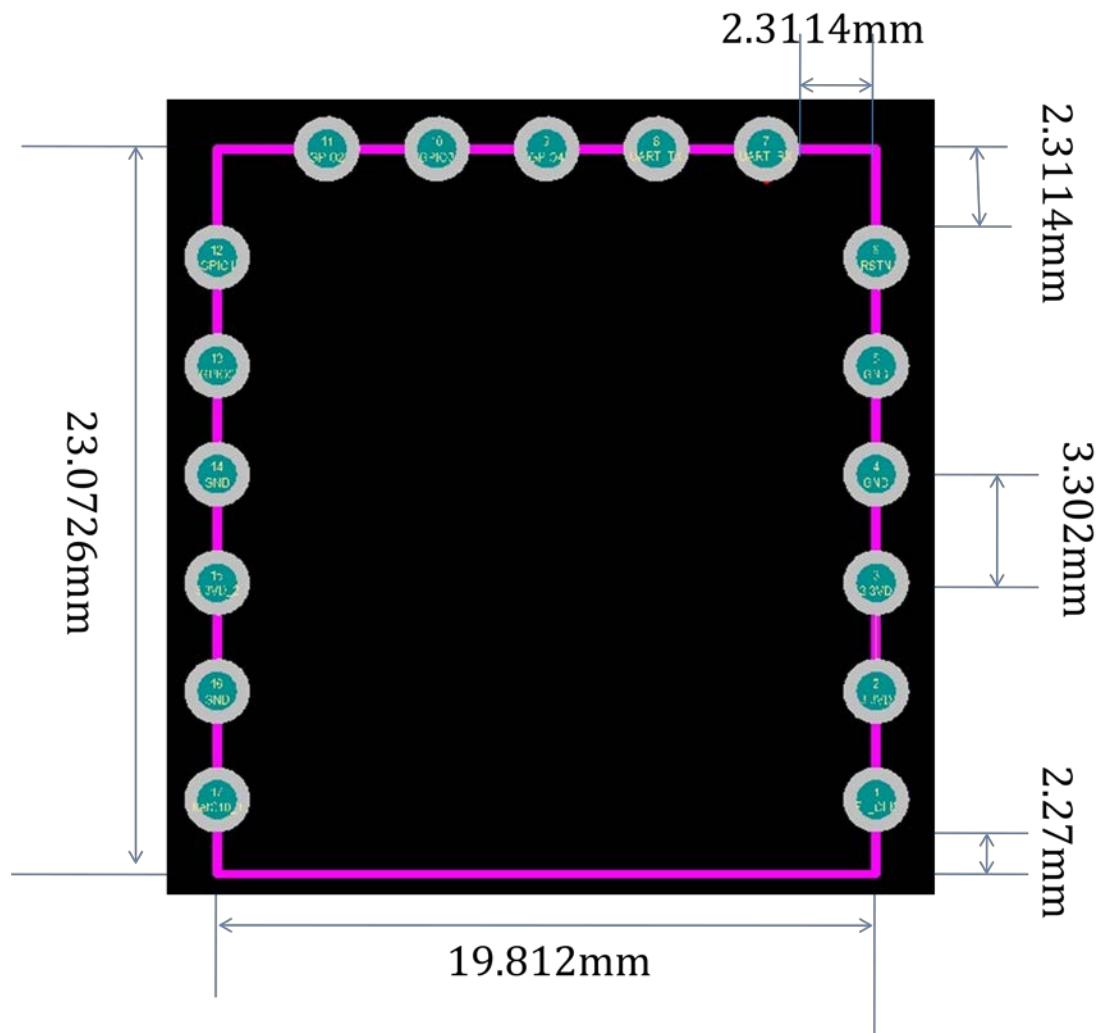
FCC Statement

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.
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: 2AECQ-EAC2152 Or Contains FCC ID: 2AECQ-EAC2152 "

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.
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