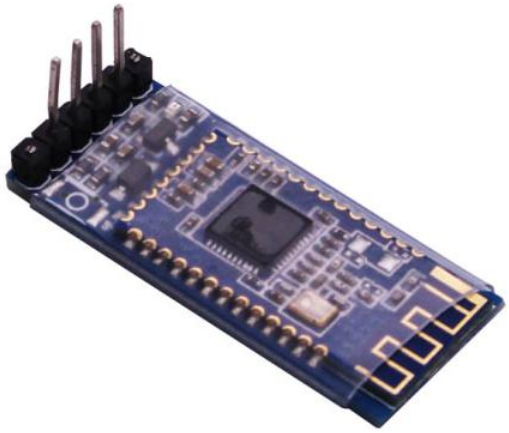
Introduction of Bluetooth4.0 module



1. Introduction:

This Bluetooth module is designed for smart wireless data transmission. It adopt CC2541 chip, 256KB space, and follows the V4.0BLE Bluetooth specification. It support AT command, users can change the serial port baud rate, device name, pairing password and other parameters as needed. This module supports UART interface and supports SPP Bluetooth serial port protocol, which can realize its powerful functions with only a few peripheral components.

2. Specifications:

PCB size: 37mm*16mm
Weight: 4g
Transmission distance: 10~20m
Reaction rate: <0.4s
Operating frequency: 2.4GHz ISM band
Modulation method: GFSK (Gaussian Frequency Shift Keying)
Sensitivity: ≤ -84dBm at 0. 1% BER
Transmission rate: Asynchronous: 6 kbps Synchronous: 6 kbps
Security features: Authentication and encryption
Support Services: Central & Peripheral UUID FFEO, FFE1
Power consumption: In the automatic sleep mode, the standby current is 400uA^ 1. 5mA, and the transmission is 8. 5mA.
Power supply: +3. 3V DC 50mA
Appearance size: 26. 9mm x 13mm x 2.2 mm
Function: master-slave

3.Physical characteristics

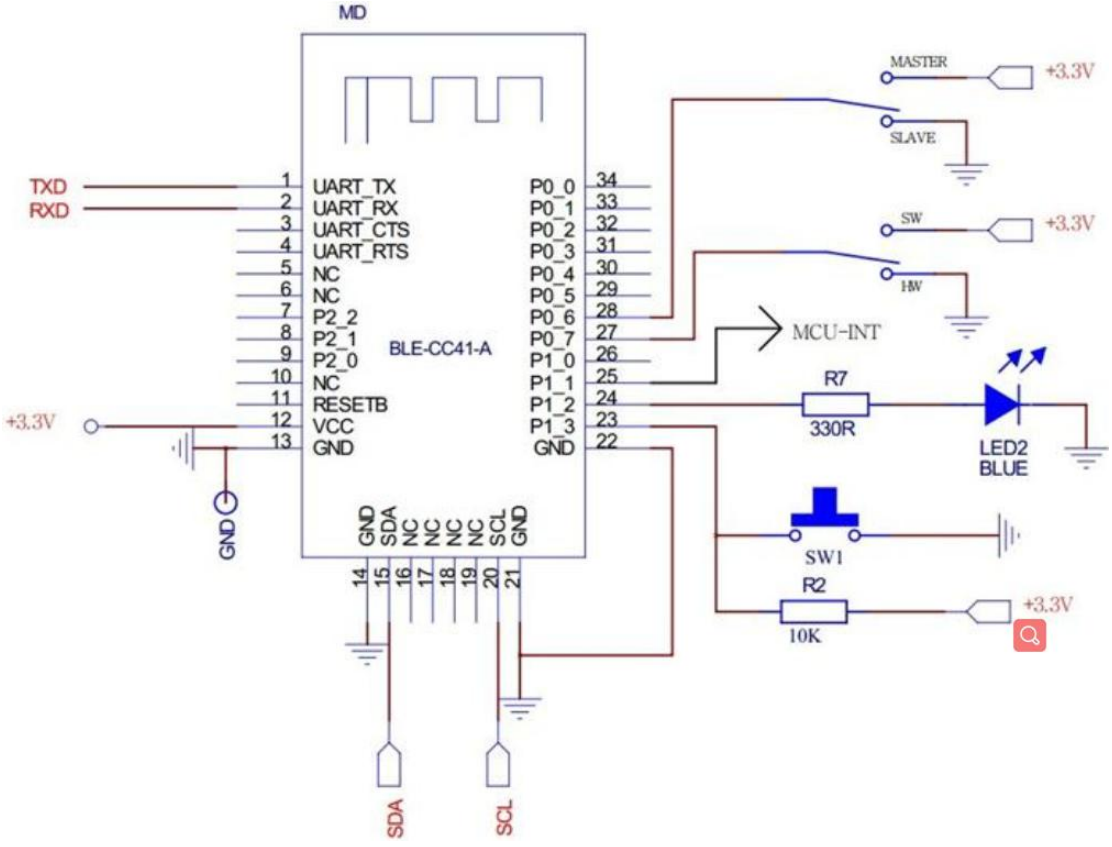
Operating Frequency Band	2.4GHz ISM band
Bluetooth Specification	BLE4.0
Output Power Class	Class 2
Operating Voltage	3.3V
Host Interface	UART
Memory Size	256KB
Dimension	27mm (L) x 13 (W) mm x 2mm (H)

4.Electrical characteristics

Absolute Maximum Ratings		
Rating	**Min**	**Max**
Storage temperature	-40℃	+150℃
Supply voltage: VBAT	-0.4V	5.6V
Other terminal voltages	VSS-0.4V	VDD+0.4V

Recommended Operating Conditions		
Operating Condition	**Min**	**Max**
Operating temperature range	-40℃	+150℃
Guaranteed RF performance range[a]	-40℃	+150℃
Supply voltage: VBAT	2.2V	4.2V[b]

5.Application circuit diagram



!!!Note:The application circuit diagram is a Bluetooth serial port circuit diagram.

6.Dimensions