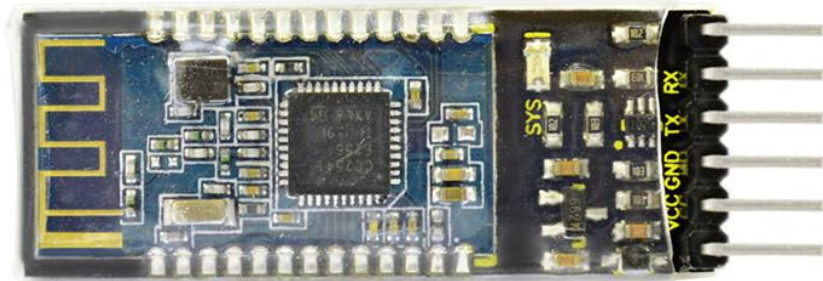


# keystudio

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## keystudio HM-10 Bluetooth-4.0 V2



### Introduction

keystudio HM-10 Bluetooth-4.0 V2 adopts TI CC2541 chip, configuration space of 256Kb. It supports AT command. Users can modify working mode (master/slave), baud rate, device name, pairing password etc.

### Specification

1. Bluetooth protocol: Bluetooth Specification V4.0 BLE
2. No byte limit in serial port Transceiving
3. In open environment, realize 100m ultra-distance communication with iphone4s
4. USB protocol: USB V2.0
5. Working frequency: 2.4GHz ISM band
6. Modulation method: GFSK(Gaussian Frequency Shift Keying)
7. Transmission power: -23dbm, -6dbm, 0dbm, 6dbm, can be modified by AT command.
8. Sensitivity:  $\leq -84\text{dBm}$  at 0.1% BER
9. Transmission rate: Asynchronous: 6K bytes  
Synchronous: 6k Bytes
10. Security feature: Authentication and encryption
11. Supporting service: Central & Peripheral UUID FFE0, FFE1
12. Power consumption: Auto sleep mode, stand by current 400uA~800uA, 8.5mA during transmission.
13. Power supply: 5V DC
14. Working temperature:  $-5 \sim +65$  Centigrade

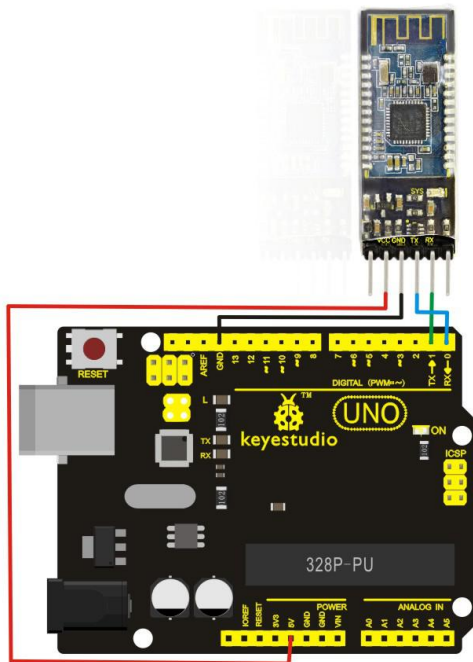
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15. Weight: 3.2g

16. Size: 46\*17\*5mm

## Circuit Connection



## Sample Code

```
int val;
int ledpin=13;
void setup()
{
  Serial.begin(9600);
  pinMode(ledpin,OUTPUT);
} void loop()
{ val=Serial.read();
if(val=='a')
{
digitalWrite(ledpin,HIGH);
delay(250);
digitalWrite(ledpin,LOW);
delay(250);
```

# keystudio

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```
Serial.println("keystudio");  
}  
}
```

## Result

Open APP HC-COM, click search device, select the device, device is connected; the LED on the Bluetooth module is on. Enter “a” in HC-COM, click send, Bluetooth APP will display keystudio. Every time HC-COM sends an “a”, the Pin13 LED on the main board blinks once.

