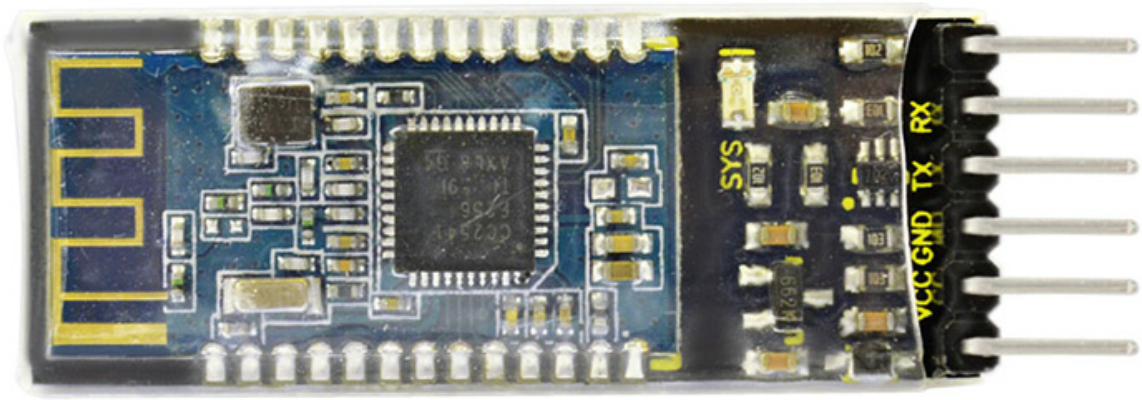
keyestudio

KS0174 HM-10 Bluetooth-4.0 V2

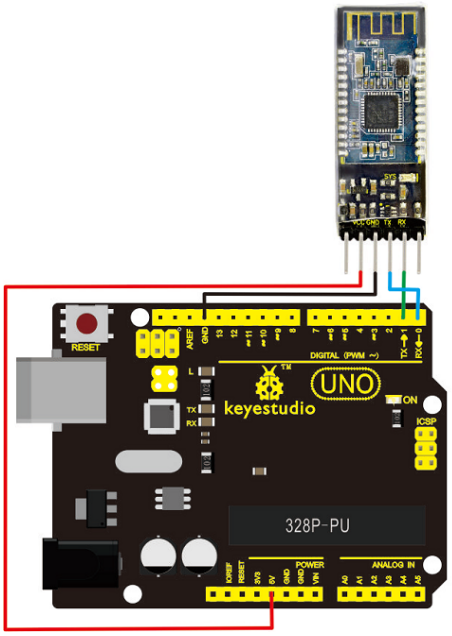
Keyestudio HM-10 Bluetooth-4.0 V2 adopts TI CC2541 chip, configuration space of 256Kb. It supports AT command. Users can modify working mode (master/slave), baud rate, device name, paring password, etc.



Specifications

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

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

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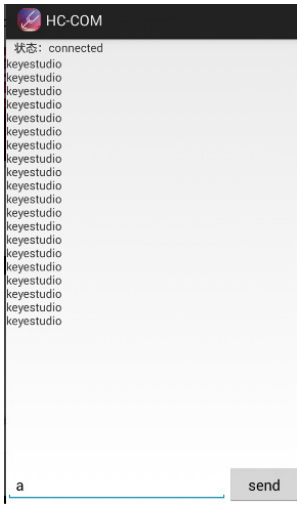
Result



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 keyestudio. Every time HC-COM sends an “a”, the Pin13 LED on the main board blinks once.

Note: The above used APP is only compatible with Android system. You need to search BLE Scanner 4.0 to download app in APP store if your use iphone.

Resources

Allow APP to access “location” in settings of your cellphone when connecting to Bluetooth module.

With respect to APP, Code and PDF file, get more details in the following link:
https://fs.keyestudio.com/KS0174

Video:
http://video.keyestudio.com/ks0174/

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