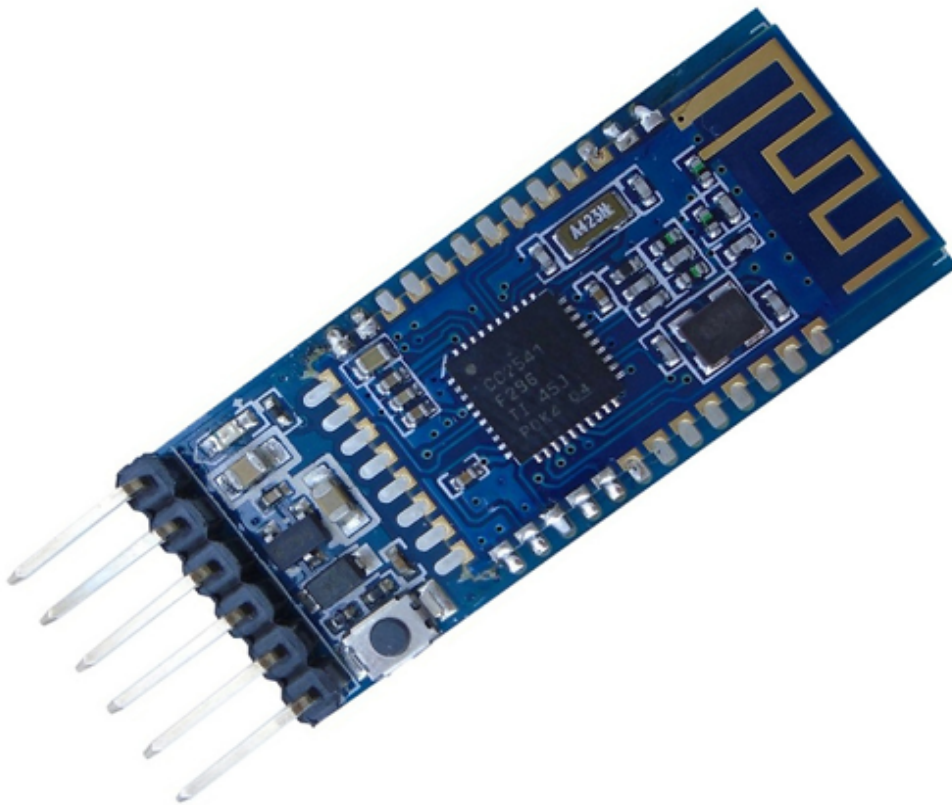




SH-HC-08 Data Sheet

Bluetooth 4.0 BLE Module



SH-HC-08 Data Sheet

1、 Overview

SH-HC-08 is a next-generation, class 2, Bluetooth 4.0 ble module. It uses TI CC2541 bluetooth 4.0 ble chip .Support the AT command, the user can according to need to change the baud rate of serial port, name of equipment, matching parameters such as password, use agile. SH-HC-08 is ahighly integrated and sophisticated Bluetooth module, containing all the necessaryelements .Therefore SH-HC-08 provides an ideal solution for developers who want to integrate Bluetooth wireless technology into their designs with limited knowledge of Bluetooth and RF technologies.

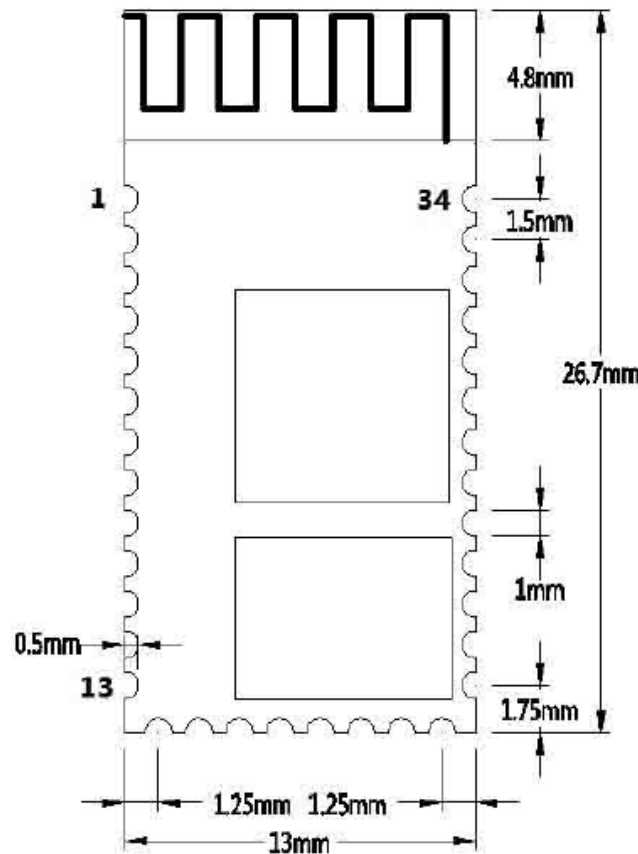
2、 Feature

- Bluetooth protocol: Bluetooth Specification V4.0 BLE,
- open environment and iphone 4 s can achieve 110 meters extreme distance communication.
- Based on TI CC2541 chipset
- Bluetooth class 2
- Industrial level SPP Bluetooth module
- Integrated chip antenna
- Size: 26.7 x 13 x 2 mm
- Industrial temperature range from -40℃to +85℃
- Support for on-board applications
- Operating frequency: 2.4 GHz ISM band
- Modulation method: GFSK (Gaussian Frequency Shift Keying)
- Acuity: -84 DBM or less BER at 0.1%
- Transfer rate: Asynchronous: 6 KBPS Synchronous: KBPS
- Security features: Authentication and encryption
- Support services: Central and Peripheral UUID FFE0, FFE1

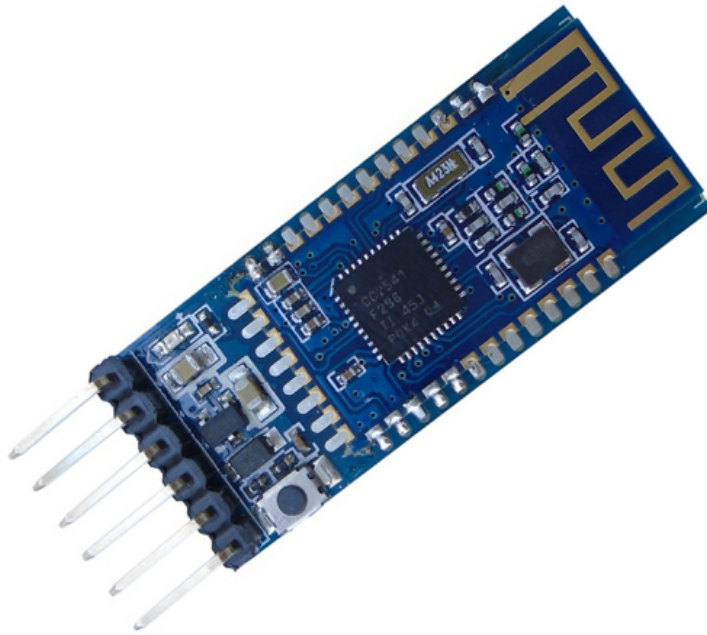
SH-HC-08 Data Sheet

- Power consumption: automatic sleep mode, the standby current 400 ~ 1.5 mA, transfer 8.5 mA.
- Power supply: + 3.3 VDC 50 MA

3、Product's picture



SH-HC-08 Data Sheet



4. Application Fields

- Cable replacement
- Point-of-sales systems
- Barcode readers and pay terminals
- Telemetry and machine-to-machine devices
- Logistics and transportation systems
- Automotive inspection and measurement systems
- Medical systems
- Fitness and sports telemetry devices
- PDA and other portable terminals
- PCs and laptop
- OBD

5. Physical Characteristics

| | |
|--------------------------|-----------------|
| Operating Frequency Band | 2.4GHz ISM band |
| Bluetooth Specification | BLE4.0 BLE |
| Output Power Class | Class 2 |

SH-HC-08 Data Sheet

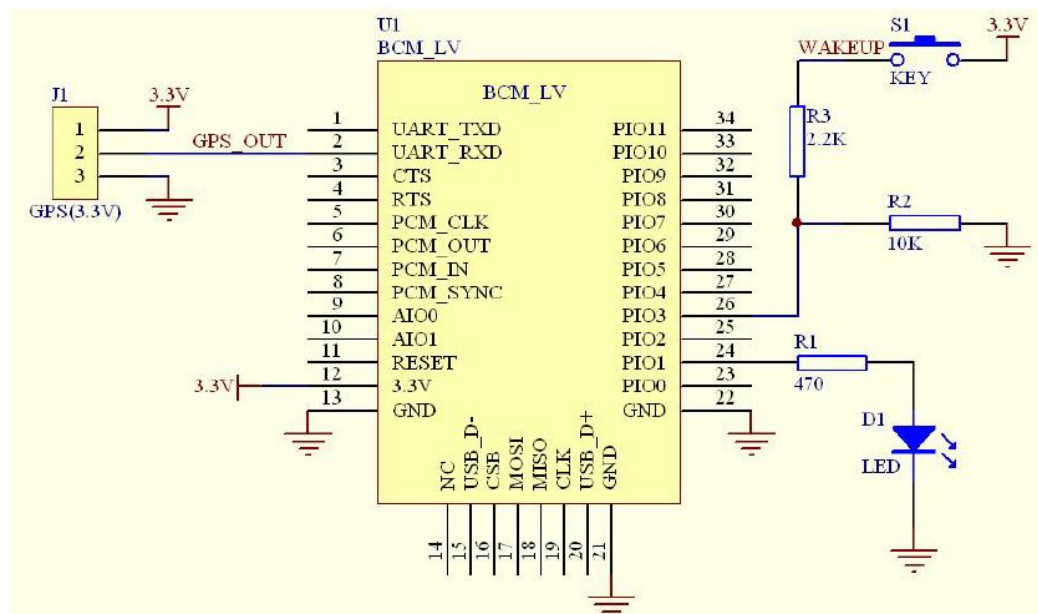
| | |
|-------------------|-------------------------------|
| Operating Voltage | 3.3V |
| Host Interface | UART |
| Dimension | 27mm (L) x 13(W) mm x 2mm (H) |

6. Electrical Characteristics

| Absolute Maximum Ratings | | |
|--------------------------|----------|----------|
| Rating | Min | Max |
| Storage temperature | -40°C | +150°C |
| 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°C | +150°C |
| Guaranteed RF performance range ^(a) | -40°C | +150°C |
| Supply voltage: VBAT | 2.2V | 4.2V ^(b) |

7. Application Circuit Diagram



Made in China