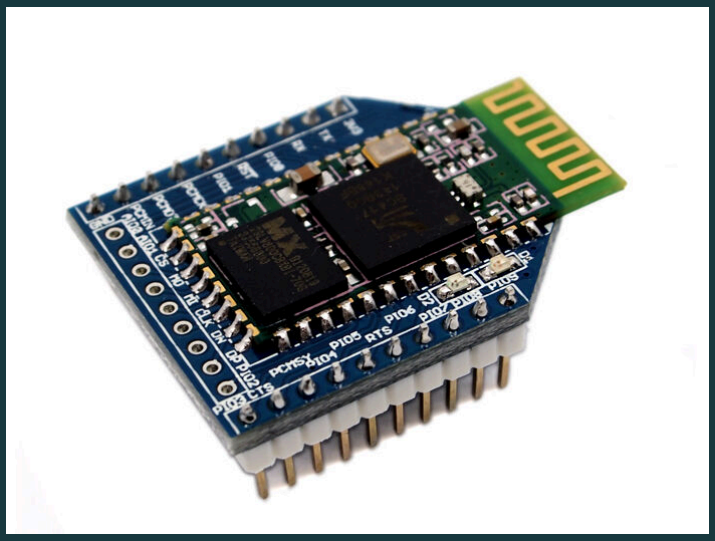
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INDUSTRIAL PRODUCT DATASHEET

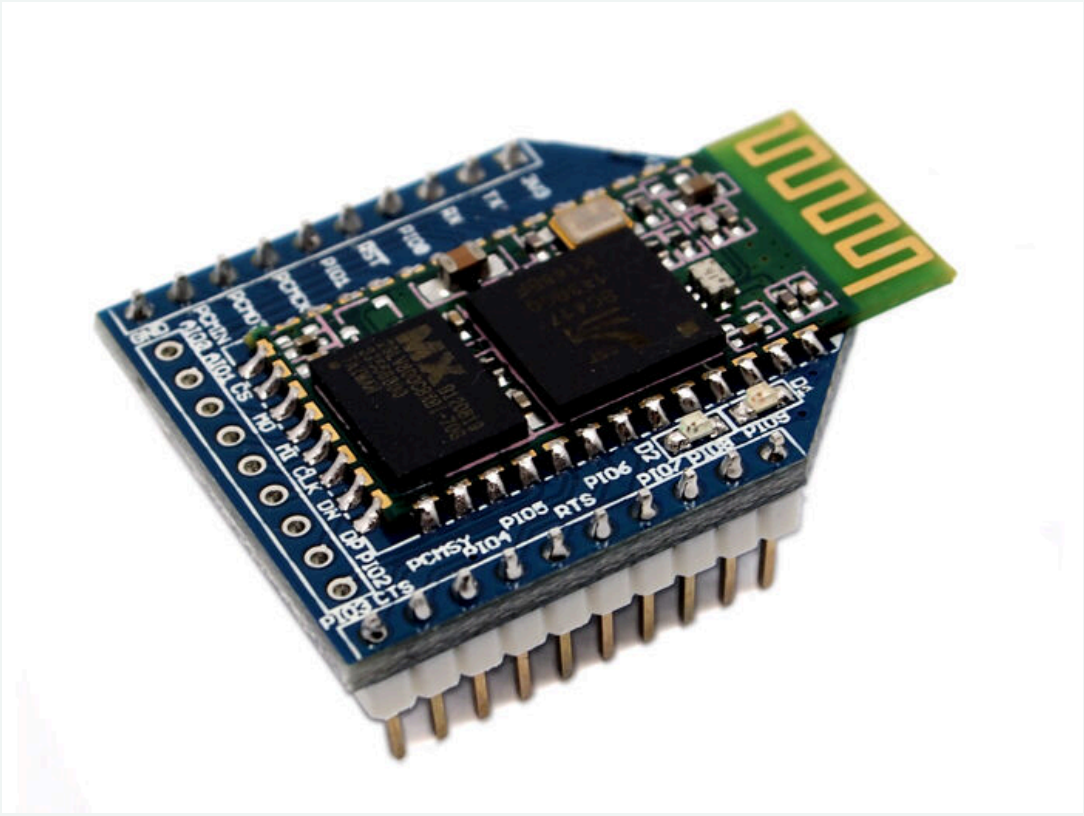
Blueseeed Bee (CSR-BC04)

Easy-to-use Bluetooth SPP module with Xbee-compatible footprint, Bluetooth V2.0+EDR, and integrated antenna for transparent serial connections.

SKU	UPDATED	PRICE
113050001	2024-08-09 02:14:05	$23.50(Excl. VAT)



Overview



The Blueseeed Bee (CSR-BC04) is an easy-to-use Bluetooth SPP module compatible with existing Xbee sockets, designed for transparent wireless serial connection setup. It features Bluetooth V2.0+EDR with -80dBm sensitivity and up to +4dBm RF transmit power, a UART interface with programmable baud rate, and low power operation from 1.8V.

Key Features

New version available: **BLE Bee - Based on HM-11 Module**

Blueseeed TH Bee (CSR-BC04) is an easy to use Bluetooth SPP module compatible with existing Xbee sockets, designed for transparent wireless serial connection setup.

Serial port Bluetooth module is fully qualified Bluetooth V2.0+EDR(Enhanced Data Rate) 3Mbps Modulation with complete 2.4GHz radio transceiver and baseband. It uses CSR Bluecore 04-External single chip Bluetooth system with CMOS technology and with AFH(Adaptive Frequency Hopping Feature).It even has the smallest footprint as small as 12.7mmx27mm. Hope it will simplify your overall design/development cycle.

Features

- Typical -80dBm sensitivity.
- Up to +4dBm RF transmit power.
- Fully Qualified Bluetooth V2.0+EDR 3Mbps Modulation.
- Low Power 1.8V Operation, 1.8 to 3.6V I/O.
- PIO control.
- UART interface with programmable baud rate.
- Integrated PCB antenna.
- Bee compatible headers.

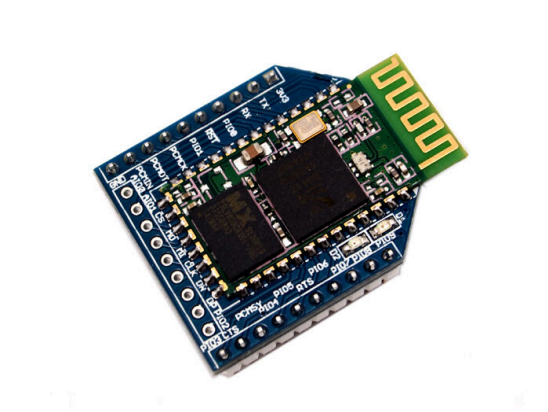
Software Features

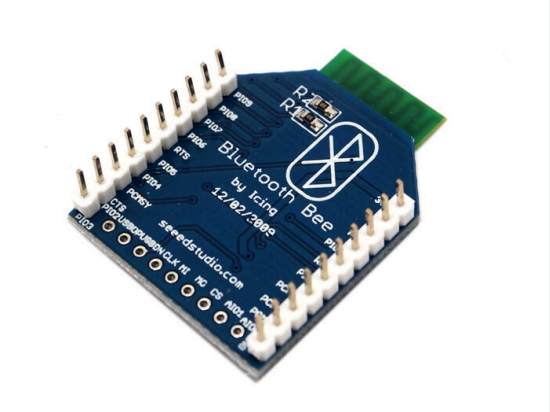
- Default Baud rate: 38400, Data bits:8, Stop bit:1,Parity:No parity, Data control: has.
- Supported baud rate: 9600,19200,38400,57600,115200,230400,460800.
- Use CTS and RTS to control the data stream.
- When a rising pulse is detected in PIO0, device will be disconnected.
- Status instruction port PIO1: low-disconnected, high-connected;
- PIO10 is connected to red led, PIO11 is connected to green led. When master and slave are paired, red and green led blinks 1time / 2s in interval, while disconnected only green led blinks 2 times/ s.
- Auto-connect the last device on power as default.
- Permit matched device connect by default.
- Default PINCODE:0000.
- Auto-reconnect in 30 min when disconnected as a result of beyond the range of connection.

Documents

Please visit our wiki page for more info about this product. It will be appreciated if you can help us improve the documents, add more demo code or tutorials. For technical support, please post your questions to our forum.

Product Gallery





Compliance & Logistics

HSCODE	8517703000

Resource Links

- https://www.seeedstudio.com/Bluetooth-Bee-p-598.html
- Bluetooth Bee Schematic and Board Files
- Bluetooth_Bee_v2.0_SCH_PCB.zip
- NewSoftLibrary
- Information on how to setup connections between Bluetooth Bees is available in Seeedstudio Forum
- PC connecting Bluetooth Bee in Seeedstudio Forum
- Bluetooth Bee datasheet
- HM—01_Datasheet

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