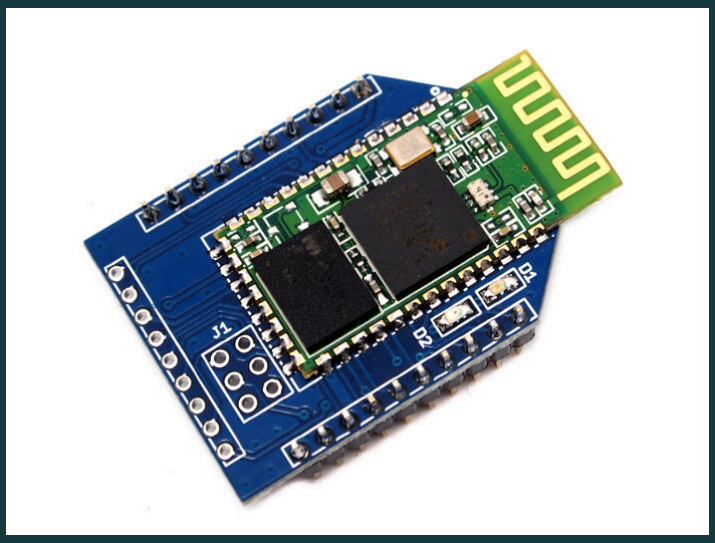
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INDUSTRIAL PRODUCT DATASHEET

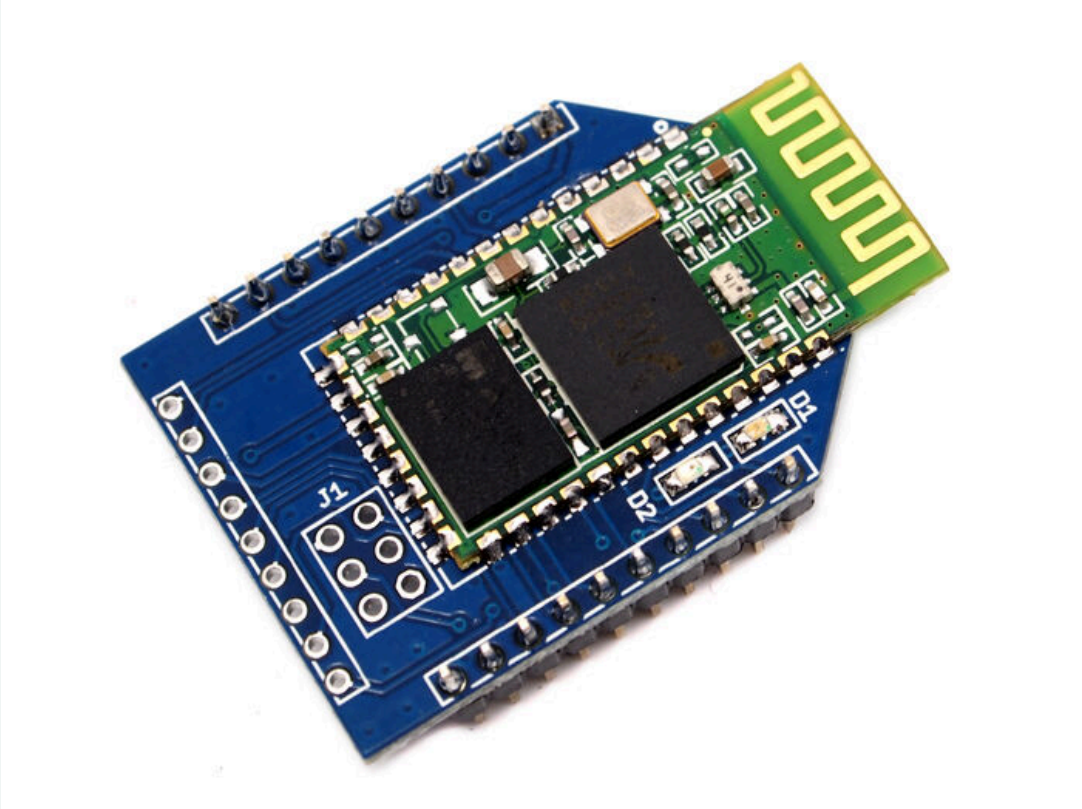
Blueseeed Bee - Standalone (CSR-BC04)

The Blueseeed Bee - Standalone (CSR-BC04) integrates Bluetooth V2.0+EDR and an ATMEGA168 Arduino into a compact, carrier-compatible module for wireless project development.

SKU	UPDATED	PRICE
113050004	2024-08-09 02:15:06	$23.50(Excl. VAT)



Overview



The Blueseeed Bee - Standalone (CSR-BC04) is an enhanced Bluetooth Bee with an onboard ATMEGA168, providing a full-featured Arduino in the same small footprint. It remains compatible with XBee Carrier, XBee® Shield, and UartSBee for expansion and reprogramming, and features Bluetooth V2.0+EDR with auto-connect capabilities.

Key Features

Save that extra Arduino you have lying around for another project, this two-for-one device has the Arduino built-in. Bluetooth Bee with Arduino is an enhanced version of the Bluetooth Bee.We added an onboard ATMEGA168 to it to make it a full-featured Arduino while maintaining the same footprint and instruction set as the Bluetooth Bee. Plus, it still allows you to stack it on XBee Carrier, XBee® Shield, and UartSBee for expansion or reprogramming

FEATURES

- Small footprint
- Identical settings and pairing methods as the Bluetooth Bee
- Software serial port adopted between the Bluetooth module and ATMEGA168
- Remains compatibile with XBee Carrier, XBee® Shield, and UartsBee for expansion

Hardware Features

- Typical -80dBm sensitivity
- +4dBm RF transmit power
- Fully qualified Bluetooth V2.0+EDR 3Mbps Modulation
- Operating voltage: 3.3v
- Built-in antenna

Software Features

- Software serial port communication method
- Default Baud rate: 38400
- Supported Baud rate: 9600, 19200, 38400, 57600, 115200, 230400, 460800
- Under RTS/CTS data transmit-receive framework
- Auto connect the last device on power as default
- Auto-reconnect in 30 minutes after out-of-range disconnection
- Ability to disconnect via a rising edge on PC2
- Working status signal on PB2: low – not working, high – working
- Paired-up status indicator on PIO 10(a red LED) and PIO 11(a blue LED):
    - Paired: red and blue blinks 1 time/2s in interval
    - Unpaired: blue blinks 2 times/sec
- Default pincode: 0000

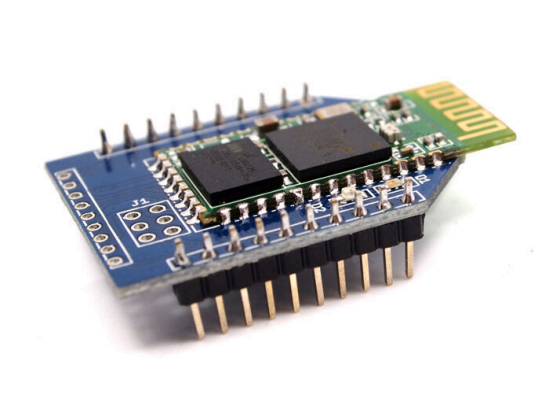
APPLICATION IDEAS

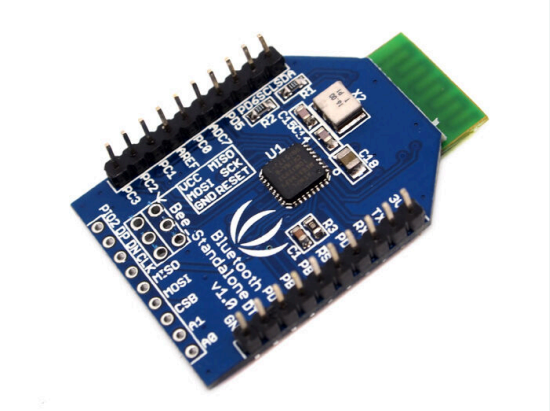
- Bluetooth communication for Arduino projects
- Turn your computer into a Bluetooth device with UartSBee's USB interface

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





Resource Links

- https://www.seeedstudio.com/Bluetooth-Bee-Standalone-p-1157.html
- BlueTooth bee-Standalone Eagle files
- NewSoftLibrary
- Information
- Information
- File:Bluetooth Bee Standalone v1.0.pdf

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