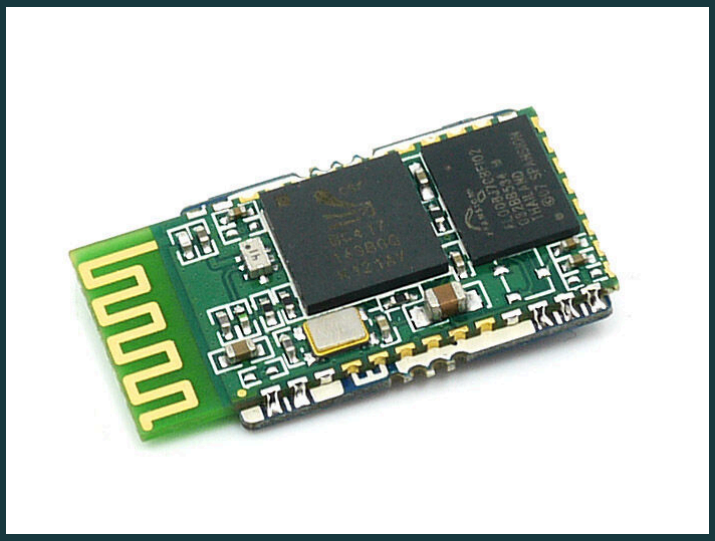
seeed studio

INDUSTRIAL PRODUCT DATASHEET

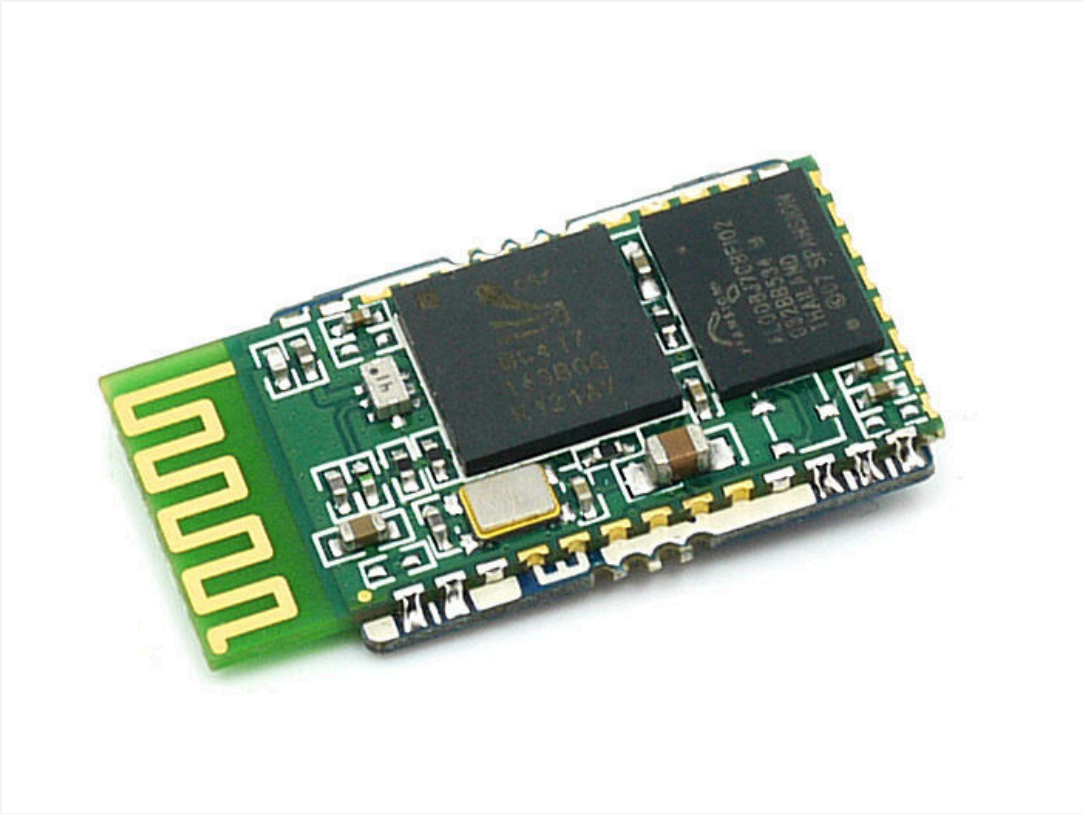
Bluetooth Frame

Bluetooth Frame: a compact Bluetooth V2.0+EDR module for Seeeduino Film that enables transparent wireless serial communication.

SKU	UPDATED	PRICE
303030019	2024-08-09 02:12:56	$19.90(Excl. VAT)



Overview



The Bluetooth Frame is an easy-to-use Bluetooth Serial Port Profile (SPP) module designed as an attachment for Seeeduino Film, providing transparent wireless serial connection. It features a fully qualified Bluetooth V2.0+EDR radio with a compact footprint of 12.7mm x 27mm and supports multiple baud rates, low power operation, and integrated PCB antenna.

Key Features

Bluetooth Frame is an easy to use Bluetooth Serial Port Profile(SPP) module designed as an attachment for Seeeduino Film. It provides transparent wireless serial connection. Bluetooth module is a 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 has the smallest footprint of 12.7mm x 27mm. Hope it will simplify your overall design/development cycle of Seeeduino Film.

HARDWARE FETURES

- 20pin FPC connector for interfacing to Seeeduino Film
- 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.

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 blue led. When master and slave are paired, red and blue led blinks 1time / 2s in interval, while disconnected only blue 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.

APPLICATION IDEAS

- As a Wireless Serial Port for **Seeeduino Film**.

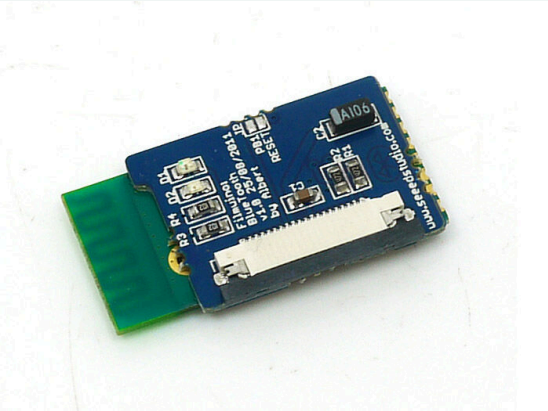
CAUTIONS

- Bluetooth Frame communicates with hardware UART of Atmega168. This UART is also used for uploading the sketch to Seeeduino Film. As ATMega168 Uart to Bluetooth Uart has 2 4.7k ohm resistors in series.You can upload sketch with Bluetooth connected, but please plug off the Uart Programmer for Bluetooth work property.
- Command to change baud rate is persistent even after reset. Hence remember the baud rate for next use.

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

Resource Links

- https://www.seeedstudio.com/Bluetooth-Frame-p-796.html

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com