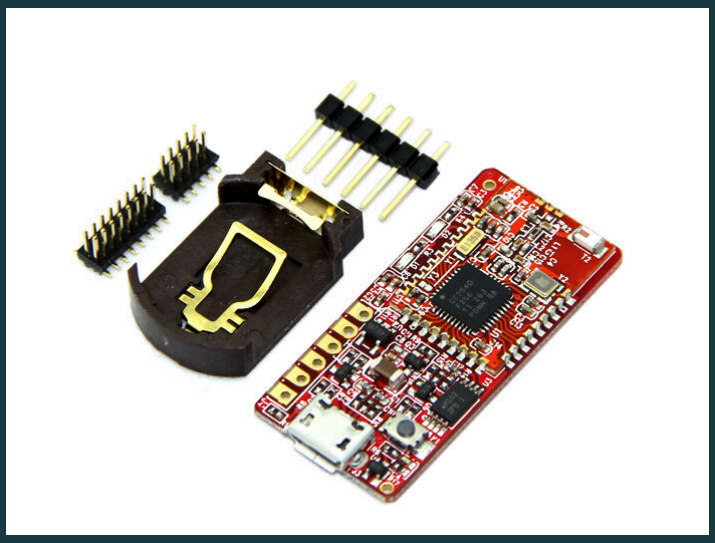
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INDUSTRIAL PRODUCT DATASHEET

Bluetooth 4.0 Low Energy - BLE Mini

BLE Mini: A compact Bluetooth 4.0 Low Energy module with UART interface for easy prototyping on major development platforms and iOS devices.

SKU	UPDATED	PRICE
102990034	2024-08-09 02:11:27	$11.90(Excl. VAT)



Overview



The BLE Mini is a compact Bluetooth 4.0 Low Energy development board based on the TI CC2540 SoC, featuring a simple serial UART interface for easy integration with Arduino, Raspberry Pi, and other platforms. It offers access to all CC2540 I/O pins, USB firmware upload, support for both Central and Peripheral roles, and can operate standalone without an external microcontroller.

Key Features

You can now utilize Bluetooth 4.0 Low Energy (BLE) technology easily in your project with our BLE Mini. BLE Mini requires only a serial port for communication so it supports all major development platforms that have UART interface including Arduino, Raspberry Pi, Netduino, BeagleBone etc. In addition, we provide you with access to all Ti's CC2540 I/O pins and the ability to upload firmware via USB, making the BLE Mini an ideal development/protoyping board for your BLE project/accessory/Appcessory.

Requirement

- An iPhone 5, iPhone 4S, iPad mini, iPad with Retina display (4th gen), iPad (3rd gen) or iPod touch (5th gen) plus our App from iTunes App Store. You could also develop your own iOS App using our open source SDK or iOS's CoreBluetooth Framework.
- Or a second BLE Mini (require Central role support which will be available in March 2013)

Features

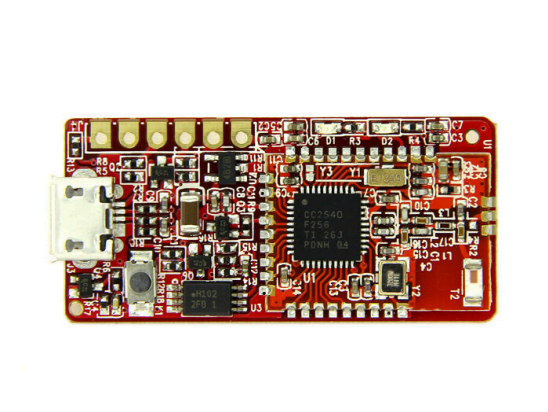
- Simple interface - with our pre-loaded firmware code name 'Biscuit', you could easily connect to any development board or IC with UART interface.
- Compact form factor - this is a very popular request from makers using smaller Arduino boards like Arduino Mini/Micro/Nano/Pro Mini etc.
- Support Central or Peripheral role - it can connect to other BLE Mini or BLE Shield, not just iOS device. (Central role support will be available in March 2013)
- Standalone operation - Ti's CC2540 is a SoC (System-on-Chip) IC that can operate without any external microcontroller. You can develop your own firmware using IAR Embedded Workbench, all I/O pins of CC2540 are accessible.
- Firmware upgradable - develop your own or download a "pre-packaged" firmware and upload to BLE Mini via the USB connector, Ti CC Debugger is not required.
- Provision for connection to external antenna.

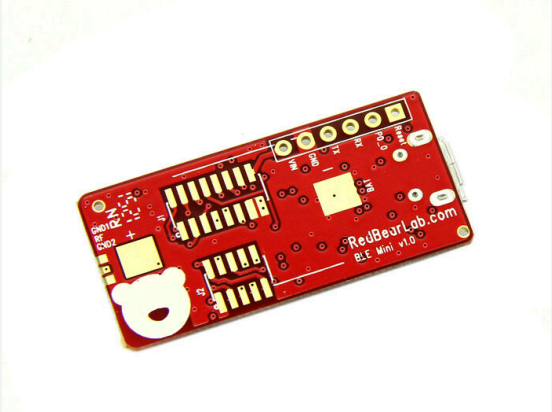
Specification

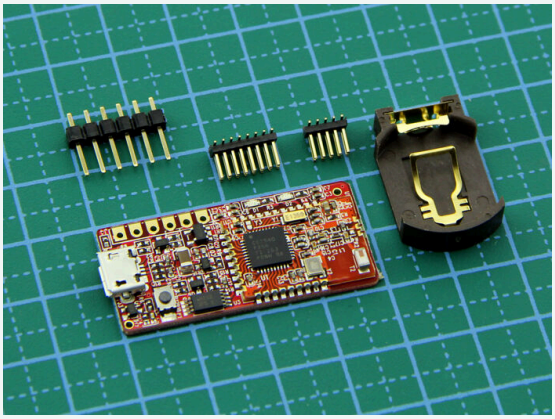
- **Texas Instruments CC2540 2.4 GHz Bluetooth System-on-Chip (SoC)**
- **Certified Bluetooth Low Energy 4.0 Module with on-board chip antenna**
- Dimension- 39mm x 18.5mm
- Powering options - 3.4V to 11V VIN / 5V USB / Coin Cell Battery / 3.7V Li-ion Battery
- On-board programmable components - 512Kb EEPROM, 2 LEDs (Blue & Green), Push Button
- Accessories included - Coin Cell Battery holder & 3 connectors

Please visit **RedBearLab** for more info about this product and technical support.

Product Gallery







Compliance & Logistics

HSCODE	8517629900

Resource Links

- https://www.seeedstudio.com/Bluetooth-4-0-Low-Energy-BLE-Mini-p-1366.html

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