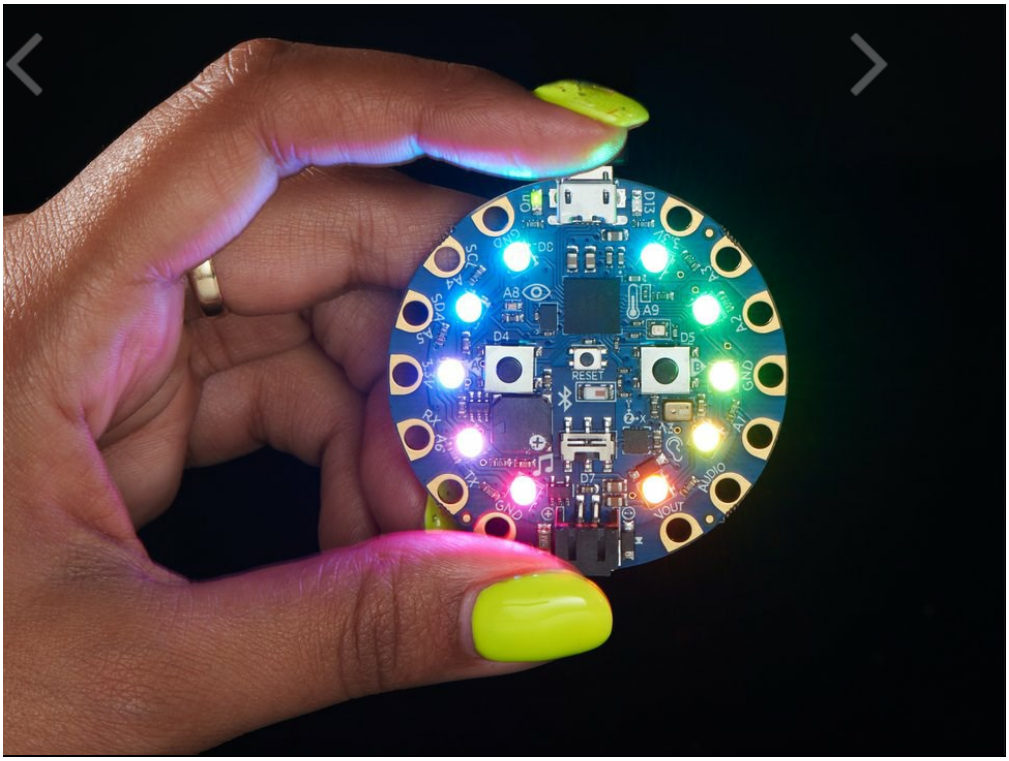
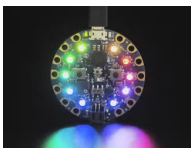
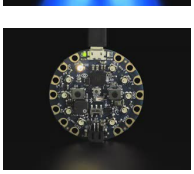
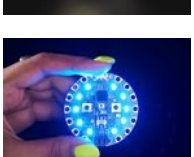
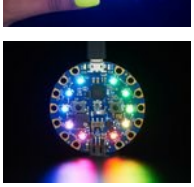
Voting resources, early voting, and poll worker information - VOTE. ... Adafruit is open and shipping.











Circuit Playground Bluefruit - Bluetooth Low Energy

PRODUCT ID: 4333

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DESCRIPTION

TECHNICAL DETAILS

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DESCRIPTION

Circuit Playground Bluefruit is our third board in the Circuit Playground series, another step towards a perfect introduction to electronics and programming. We've taken the popular Circuit Playground Express and made it even better! Now the main chip is an nRF52840 microcontroller which is not only more powerful, but also comes with Bluetooth Low Energy support for wireless connectivity.

The board is round and has alligator-clip pads around it so you don't have to solder or sew to make it work. You can power it from USB, a AAA battery pack, or with a Lipoly battery (for advanced users). Circuit Playground Bluefruit has built-in USB support. Built in USB means you plug it in to program it and it just shows up, no special cable or adapter required. Just program your code into the board then take it on the go!

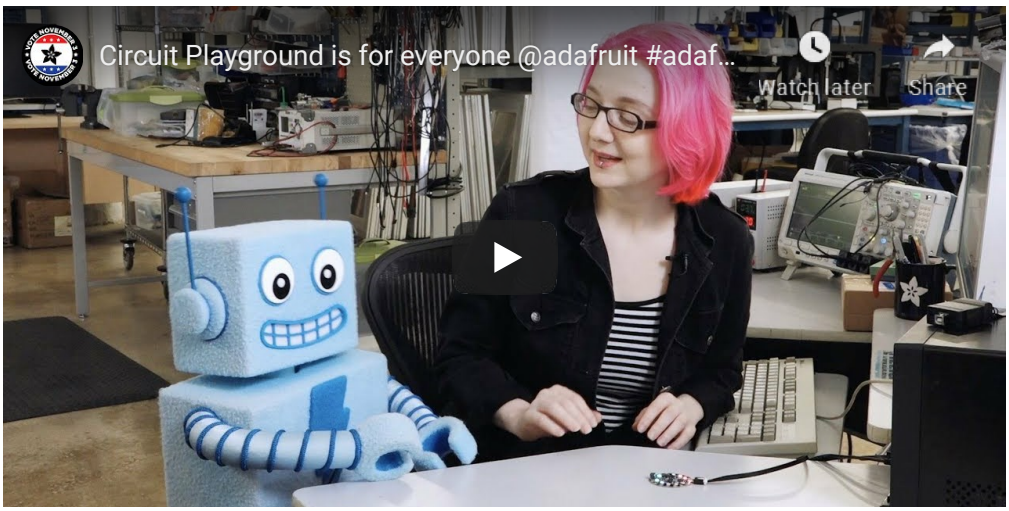
You can use this board with **Arduino** or **CircuitPython** - It does not support MakeCode at this time (there is no ETA when it might be added)

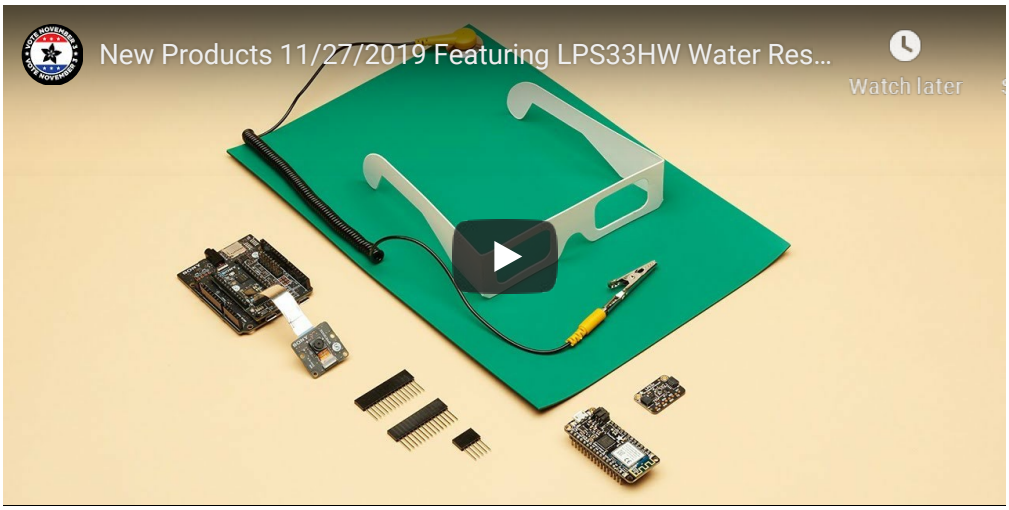
Here's some of the great goodies baked in to each Circuit Playground Bluefruit:

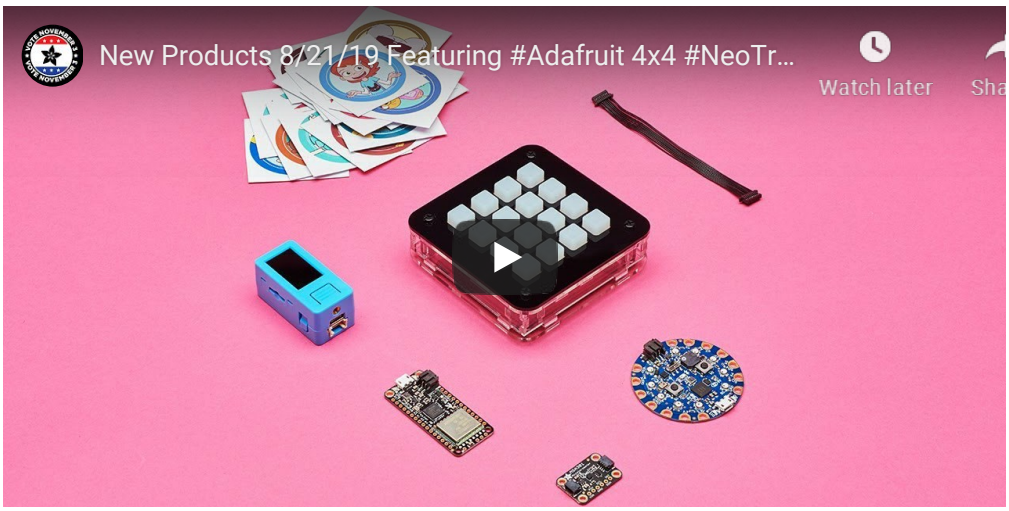
- 1 x nRF52840 Cortex M4 processor with Bluetooth Low Energy support
- 10 x mini NeoPixels, each one can display any color
- 1 x Motion sensor (LIS3DH triple-axis accelerometer with tap detection, free-fall detection)
- 1 x Temperature sensor (thermistor)
- 1 x Light sensor (phototransistor). Can also act as a color sensor and pulse sensor.
- 1 x Sound sensor (MEMS microphone)
- 1 x Mini speaker with class D amplifier (7.5mm magnetic speaker/buzzer)
- 2 x Push buttons, labeled A and B
- 1 x Slide switch
- 8 x alligator-clip friendly input/output pins
- Includes I2C, UART, 6 pins that can do analog inputs, multiple PWM outputs
- Green "ON" LED so you know its powered

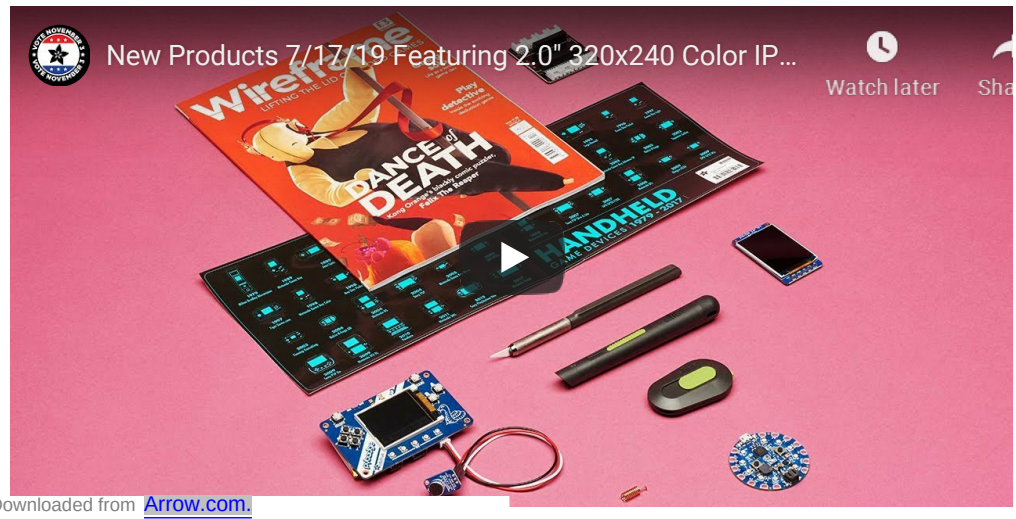
Downloaded from Arrow.com.

- Red "#13" LED for basic blinking
- Reset button
- 2 MB of SPI Flash storage, used primarily with CircuitPython to store code and libraries.
- MicroUSB port for programming and debugging
- USB port can act like serial port, keyboard, mouse, joystick or MIDI!









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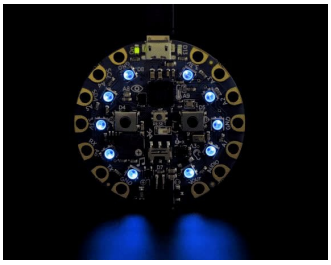
TECHNICAL DETAILS

- Outer Diameter: ~50.6mm / ~2.0"
- Weight: 8.9g

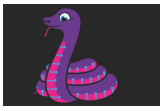
Revision History:

- **As of Nov 22, 2019** we updated this design from Alpha to release. The antenna design changed slightly, and we added a pin that allows the user to turn off power to the NeoPixels, microphone, and temperature/light sensor so only the accelerometer is active, for low power usage!

LEARN

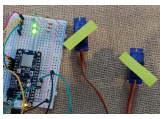


Primary Guide: Adafruit Circuit Playground Bluefruit
Circuit Playground Bluefruit: Everything amazing about Circuit Playground, now with the power of Bluetooth!



Welcome to CircuitPython!
New to CircuitPython? This is the place to start.

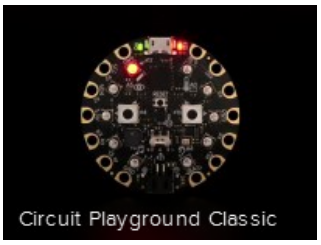
Bluefruit LE Connect for iOS and Android
Learn how to use your iOS or Android device to control and communicate with Bluefruit LE.



Multi-tasking with CircuitPython
Control LEDs, servos, and inputs all together with minimal contention.

SEE ALL GUIDES

MAY WE ALSO SUGGEST...



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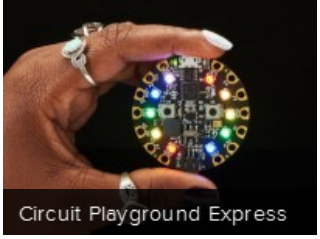
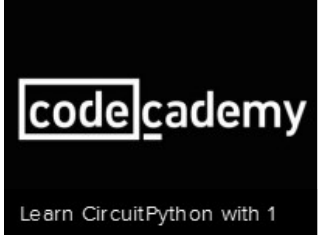

Circuit Playground Express

Adafruit Feather M0

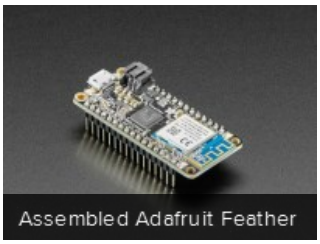


Learn CircuitPython with 1

FLORA - Wearable

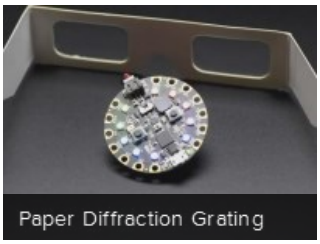
Adafruit METRO M0

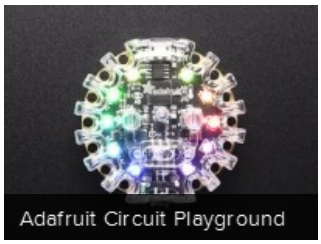
Large Alligator Clip Test


Assembled Adafruit Feather

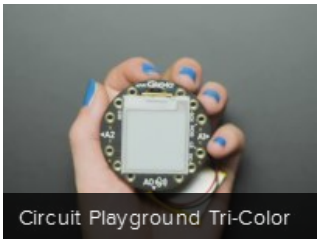
Adafruit CLUE - nRF52840

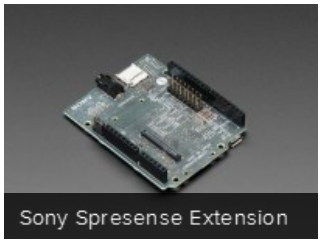
Sony Spresense Pack -

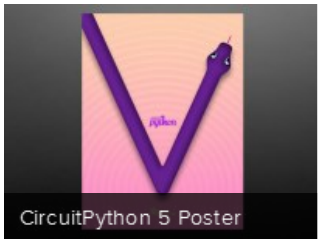

Paper Diffraction Grating


Adafruit Circuit Playground

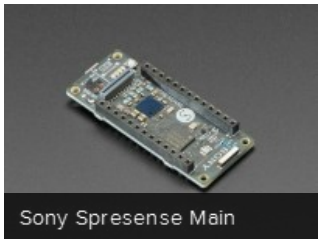
Adafruit Feather nRF52840


Circuit Playground Tri-Color


Sony Spresense Extension


CircuitPython 5 Poster

Adafruit ItsyBitsy nRF52840


Sony Spresense Main

Circuit Playground TFT

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