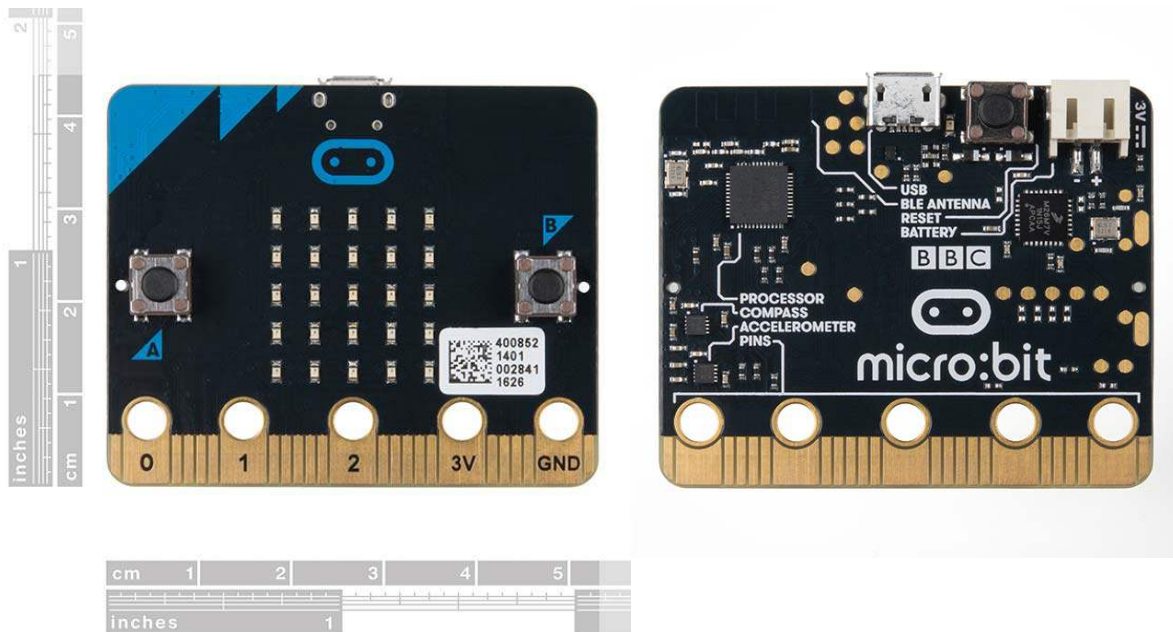




micro:bit

DEV-14208



Description: The BBC micro:bit is a pocket-sized computer that lets you get creative with digital technology. You can code, customize and control your micro:bit from anywhere! You can use your micro:bit for all sorts of unique creations, from robots to musical instruments and more. At half the size of a credit card, you will be surprised at the amount of hardware each board is equipped with, including 25 red LED lights that can flash messages. There are two programmable buttons that can be used to control games or pause and skip songs on a playlist. The micro:bit can even detect motion and tell you which direction you're heading. It can also use Bluetooth Low Energy (BLE) to interact with other devices and the Internet.

Taking a closer look at the front of the board, we can see the 5x5 LED array that you can use as a light sensor, a tiny screen to draw on, display words, numbers and other information, and the two programmable buttons! On the back of the board you will find the brains of the micro:bit, a 16MHz, 32-bit ARM Cortex-M0 microcontroller with 256KB Flash, 16KB RAM and a built-in temperature sensor. Additionally, the back of the micro:bit is populated by an accelerometer, compass and Bluetooth Smart antenna, as well as a microUSB and two-pin JST connector for different power

options. Finally, at the bottom of the board you will find 20 gold-tabbed edge pins and five ring connectors (three for digital/analog I/O, two for power and ground) for hooking up external components. The tabs with larger holes can be easily used with alligator clips to prototype added components quickly.

Micro:bit has even supplied an intuitive mobile app that lets you send your code to your micro:bit over Bluetooth (without using a USB cable) and more. With this app you will be able to interact with your micro:bit on a higher level of accessibility.

Features:

- 32-bit ARM Cortex-M0 CPU
- 256KB Flash
- 16KB RAM
- 5x5 Red LED Array
- Two Programmable Buttons
- Onboard Light, Compass, Accelerometer and Temp Sensors
- BLE Smart Antenna
- Three Digital/Analog Input/Output Rings
- Two Power Rings — 3V and GND
- 20-pin Edge Connector
- MicroUSB Connector
- JST Battery Connector
- Reset Button with Status LED