

Kitronik LAB:bit educational platform for BBC micro: bit

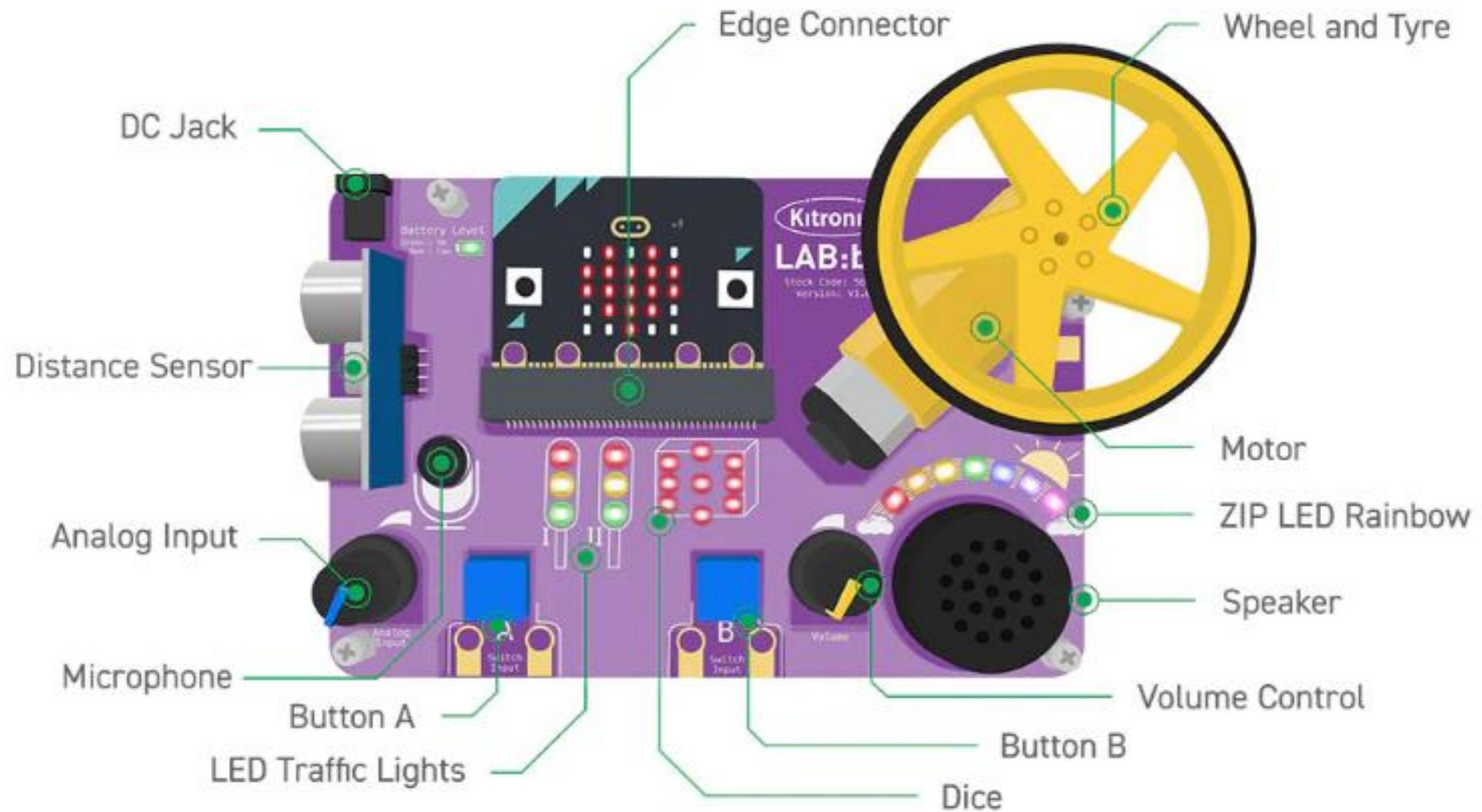
The Kitronik LAB:bit for the BBC microbit offers a super fun way for children to learn about coding in an engaging and hands-on way. It has been specifically designed for the classroom for KS2 computing and is backed by online MakeCode tutorials, simplified custom blocks, and a detailed getting started guide.

This all-in-one laboratory environment ships with a detailed getting started guide, filled with step-by-step information that can easily be followed by either teacher or pupil. The guide covers everything the user or teacher needs to know, from the ground up.

It is absolutely packed with an impressive array of features and devices for easy delivery of fun and informative lessons. These include; a motor, ultrasonic distance sensor, 2 x large user-assignable tactile buttons (with indicator LEDs), a microphone, speaker (with volume control), 7 programmable ZIP LEDs (in an arc), A user-assignable potentiometer control, 2 x sets of traffic light LEDs, and LEDs arranged in a dice formation (that can also be used for displaying digits).

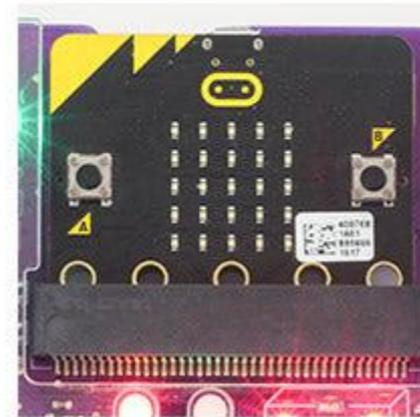


Product Overview



Features

- LAB:bit is an all in one educational platform designed for the delivery of KS2 computing in the classroom (7 - 10-year-olds).
- It's packed full of devices, LEDs, switches, sensors, and other programmable features.
- It features an edge connector for the micro:bit to slot into, no tools required.
- LAB:bit is supplied with a pre-fitted protective acrylic cover.
- Additionally, there are clip-able pads for attaching an additional motor, 2 x clip-able pads for attaching further buttons/switches, colour-changing power indication LEDs, and a cutaway for easy reset button access.
- There are also pre-fitted anti-slip rubber feet.
- Code it with blocks in the MakeCode editor.
- Kitronik custom blocks to make coding more intuitive and straightforward.
- Supplied in the box are; a battery holder (3 x AA) and a wheel and tyre.
- Power LAB:bit via the provided 3 x AA battery holder.



Made for BBC micro:bit

From Beginner to Expert with Custom MakeCode blocks and example Python Code.



Highly Interactive

With 4 onboard inputs and 5 onboard outputs, plus those added by the micro:bit itself.

- The board is rated for 3V - 6V.
- It has inbuilt polarity protection.
- The onboard power regulation circuit provides power to the board and to the micro:bit.
- LAB:bit is supplied with a fully comprehensive getting started guide. It takes you through everything you need to know and can be followed by both teachers and pupils.

Online Tutorials

7 online MakeCode experiments that teach you how to create code for each area of the board, they are.

- Make your own switch.
- Making a Dice.
- Colouring a rainbow.
- Traffic lights.
- Controlling motor speed.
- Scare the micro:bit, using sound to drive LEDs.
- Parking sensor

Contents

- 1 x Kitronik LAB:bit for the BBC microbit
- 1 x Yellow wheel and rubber tyre.
- 1 x 3AA battery holder.

Notes

- No soldering.
- Minimal mechanical assembly is required. The wheel needs to have the tyre fitted and then to be fitted to the onboard motor.
- This kit is not supplied with a micro:bit.

Requires

- a BBC micro:bit.
- USB cable for connecting the micro:bit to a computer.
- 3 x AA Batteries.
- Optional - 5V USB Power Supply.

Dimensions

- 150mm x 100mm x 41mm