

Servo:Lite Board for the BBC micro:bit



www.kitronik.co.uk/5623

The Servo:Lite™ board for the BBC micro:bit allows two servos to be driven simultaneously, making it ideal for designs such as buggies. It also has 5 ZQP™ addressable LEDs.

The board includes an integrated nut and bolt connection for the BBC micro:bit pins 0, 1, and 2. PO is routed to the ZQP™ LEDs, P1 to Servo 1, and P2 to Servo 2

The board also produces a **regulated supply** that is fed into the 3V and GND connections to power the connected BBC micro:bit, removing the need to power the BBC micro:bit separately.

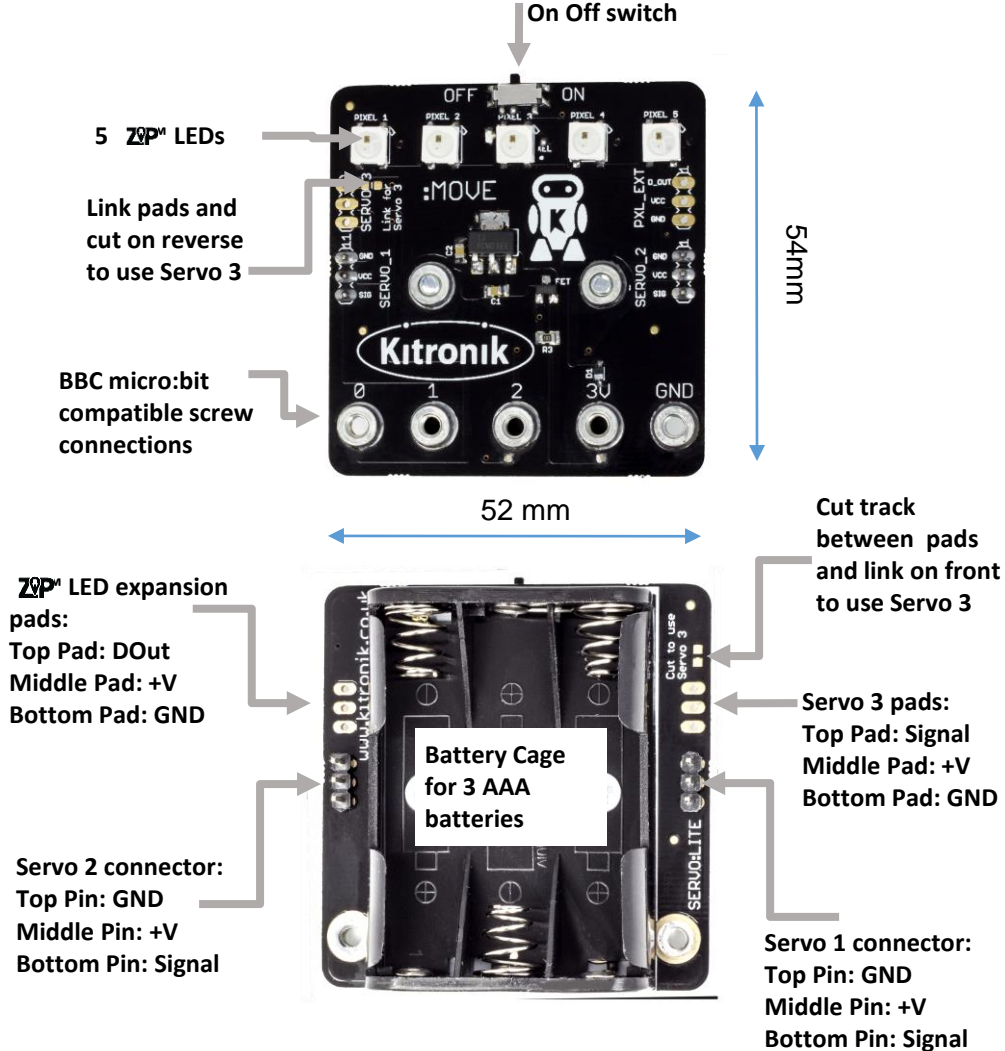


Connecting a BBC micro:bit:

The board has been designed so that the BBC micro:bit can be bolted to the front, using the supplied spacer and 5 M3x8 countersunk machine screws.

Examples of board in use: This breakout board is used in our :MOVE mini robot. For more details see: www.kitronik.co.uk/movemini

Layout and Dimensions:



The Servo:Lite™ board is 16mm front to back

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Electrical Information

Operating Voltage (Vcc)	4.5V (3x AAA batteries. Alkaline recommended)
Number of servo channels	2 (Optionally 3 if ZIP™ LEDs are disabled)
Typical servo output Voltage (Vm) @ 1A	3.3V
Max Current (all servos)	1A

JavaScript Blocks editor code

Kitronik have developed custom block and JavaScript to support the use of the Servo:Lite™ board in the Microsoft MakeCode JavaScript Block editor (formerly known as PXT). These blocks can be added via the add package function in the editor from:

<https://github.com/KitronikLtd/pxt-kitronik-servo-lite>

The example blocks (right) cause a :MOVE mini buggy to move around a square.

ZIP™ LEDs are compatible with the AdaFruit NeoPixels blocks.

