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

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 ZIP™ addressable LEDs.

The board includes an integrated nut and bolt connection for the BBC micro:bit pins 0, 1, and 2. P0 is routed to the ZIP™ 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.

Servo 2 connector:
Top Pin: GND
Middle Pin: +V
Bottom Pin: Signal

Servo 1 connector:
Top Pin: GND
Middle Pin: +V
Bottom Pin: Signal

Servo 3 pads:
Top Pad: Signal
Middle Pad: +V
Bottom Pad: GND

ZIP™ LED expansion pads:
Top Pad: DOut
Middle Pad: +V
Bottom Pad: GND

ZIP™ LEDs
Link pads and cut on reverse to use Servo 3

Battery Cage for 3 AAA batteries

Cut track between pads and link on front to use Servo 3

Servo 3 connector:
Top Pad: Signal
Middle Pad: +V
Bottom Pad: GND

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

### Electrical Information

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Operating Voltage (Vcc)</td>
<td>4.5V (3x AAA batteries. Alkaline recommended)</td>
</tr>
<tr>
<td>Number of servo channels</td>
<td>2 (Optionally 3 if ZIP™ LEDs are disabled)</td>
</tr>
<tr>
<td>Typical servo output Voltage (Vm) @ 1A</td>
<td>3.3V</td>
</tr>
<tr>
<td>Max Current (all servos)</td>
<td>1A</td>
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**Servo:Lite Board for the BBC micro:bit**

www.kitronik.co.uk/5623