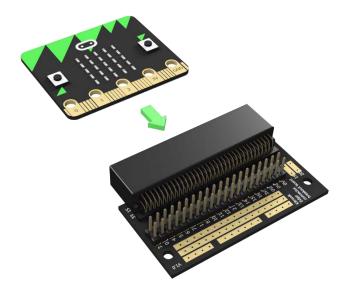
Edge Connector Breakout Board for the BBC micro:bit

www.kitronik.co.uk/5601B



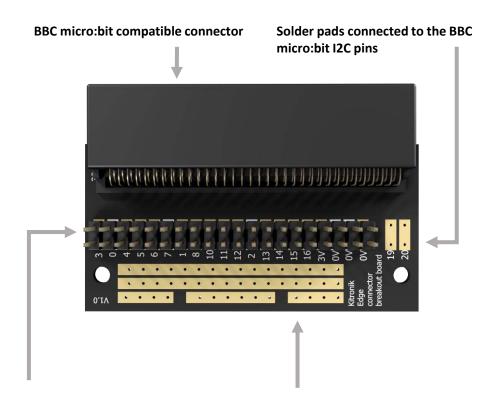
Introduction: This breakout board has been designed to offer an easy way to connect additional circuits and hardware to the edge connector on the BBC micro:bit. This edge connector offers access to a large number of the BBC micro:bit processor pins. For details on these please refer to the next page.

To use the breakout board the BBC micro:bit should be inserted firmly into the connector as shown below.



Examples of board in use: This breakout board is used in our 'Inventors kit for BBC micro:bit'. This kit is supplied with instructions detailing a number of uses for the board. These can be found at www.kitronik.co.uk/microbitinvent

Layout:



Pin headers connected through to the BBC micro:bit pin numbers as indicated

This area is fitted with a 20x2 row of pin headers. These can be used to connect an IDC cable or jumper wires.

Prototyping area

This area has been designed to allow you to prototype small circuits. There is a 3V and 0V row, and three additional connecting sections.

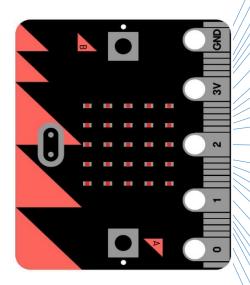
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Edge Connector Pinout

Note: A number of these pins may not be accessible in all editors.



0V
l _

Special function pin

3V

Digital input / output

Analogue input / digital IO Digital input (shared with a button)

Digital output (shared with LED matrix)

Breakout PCB Ref (if applicable) 0V 22 0V 0V 21 0V 20 SDA 19 SCL 3V 18 3V 3V 17

Name

3V

DIO

15 14

16

13

2

12 11

10

9

8

1

7 COL8

6 5

4

0

Column 8 on the LED matrix COL9 Column 9 on the LED matrix BTN A Button A - Normally high, going low on press (Button A in editors) COL2 Column 2 on the LED matrix PAD0 General purpose digital / analogue IO (P0 in editors)

0V / ground 0V / ground Serial data pin connected to the magnetometer & accelerometer Serial clock pin connected to the magnetometer & accelerometer 3V / positive supply

3V / positive supply 3V / positive supply

General purpose digital IO (P16 in editors)

Description

0V / ground

MOSI Serial connection - Master Output / Slave Input Serial connection - Master Input / Slave Output MISO

SCK Serial connection - Clock

PAD2 General purpose digital / analogue IO (P2 in editors)

DIO General purpose digital IO (P12 in editors)

BTN B Button B - Normally high, going low on press (Button B in editors)

COL3 Column 3 on the LED matrix COL7 Column 7 on the LED matrix

DIO General purpose digital IO (P8 in in editors)

PAD1 General purpose digital / analogue IO (P1 in editors)

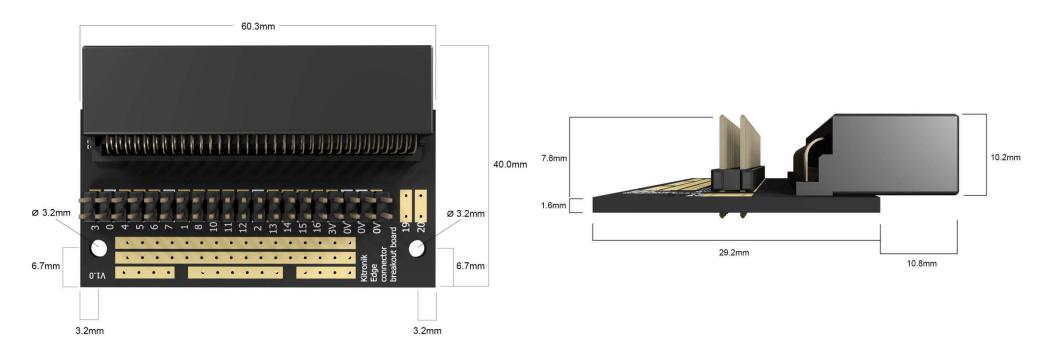
COL1 Column 1 on the LED matrix

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Dimensions



(Dimensions +/- 0.8mm)