

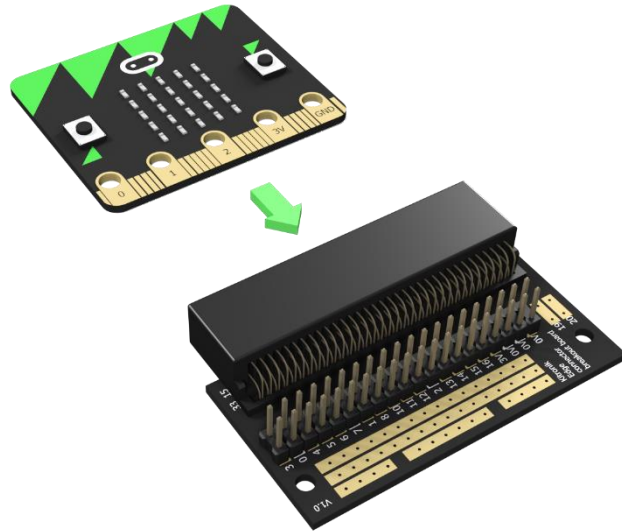
Edge Connector Breakout Board for the BBC micro:bit

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.

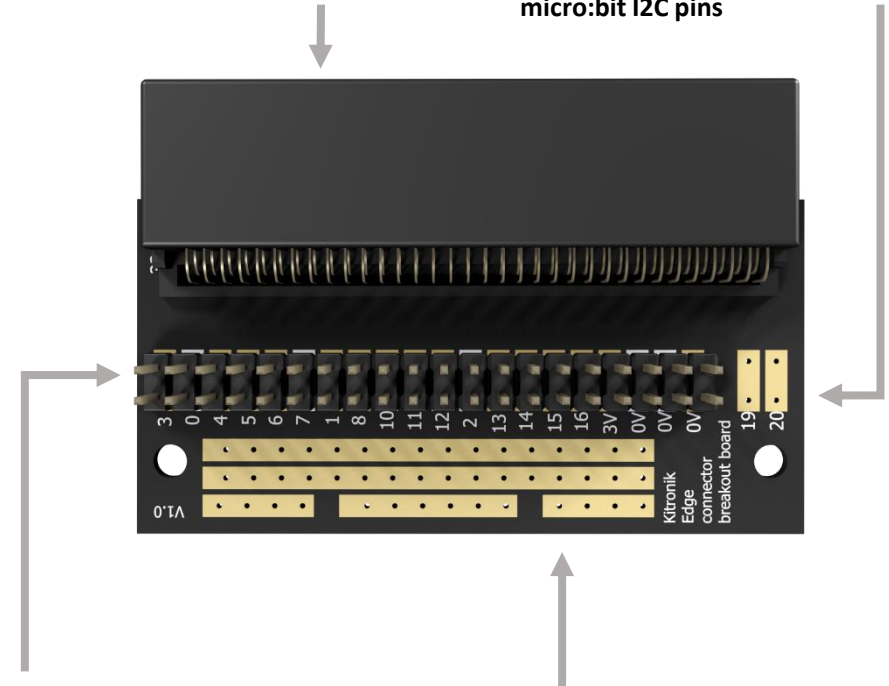


Examples of board in use: This breakout board is used in our 'Inventors kit for BBC micro:bit'. This kit is supplied with instructions detailing a number of uses for the board. These can be found at www.kitronik.co.uk/microbitinvent

Layout:

BBC micro:bit compatible connector

Solder pads connected to the BBC micro:bit I2C pins



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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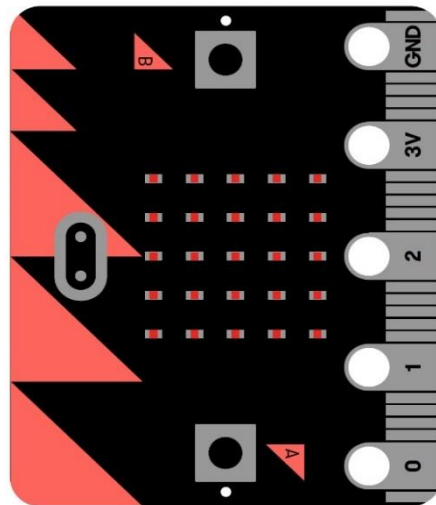
Breakout PCB Ref (if applicable)

Name

Description

Edge Connector Pinout

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



- 0V
- Special function pin
- 3V
- Digital input / output
- Analogue input / digital IO
- Digital input (shared with a button)
- Digital output (shared with LED matrix)

22

0V

0V / ground

0V

0V

0V / ground

21

0V

0V / ground

20

SDA

Serial data pin connected to the magnetometer & accelerometer

19

SCL

Serial clock pin connected to the magnetometer & accelerometer

18

3V

3V / positive supply

3V

3V

3V / positive supply

17

3V

3V / positive supply

16

DIO

General purpose digital IO (**P16 in editors**)

15

MOSI

Serial connection - Master Output / Slave Input

14

MISO

Serial connection - Master Input / Slave Output

13

SCK

Serial connection - Clock

2

PAD2

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

12

DIO

General purpose digital IO (**P12 in editors**)

11

BTN_B

Button B – Normally high, going low on press (**Button B in editors**)

10

COL3

Column 3 on the LED matrix

9

COL7

Column 7 on the LED matrix

8

DIO

General purpose digital IO (**P8 in editors**)

1

PAD1

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

7

COL8

Column 8 on the LED matrix

6

COL9

Column 9 on the LED matrix

5

BTN_A

Button A – Normally high, going low on press (**Button A in editors**)

4

COL2

Column 2 on the LED matrix

0

PAD0

General purpose digital / analogue IO (**P0 in editors**)

3

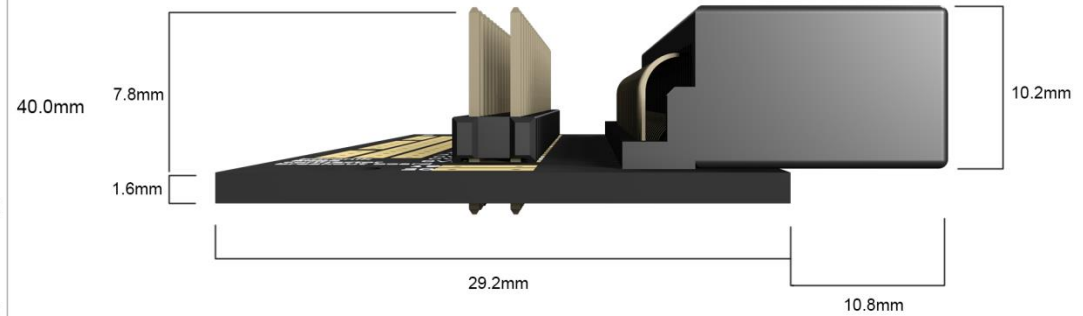
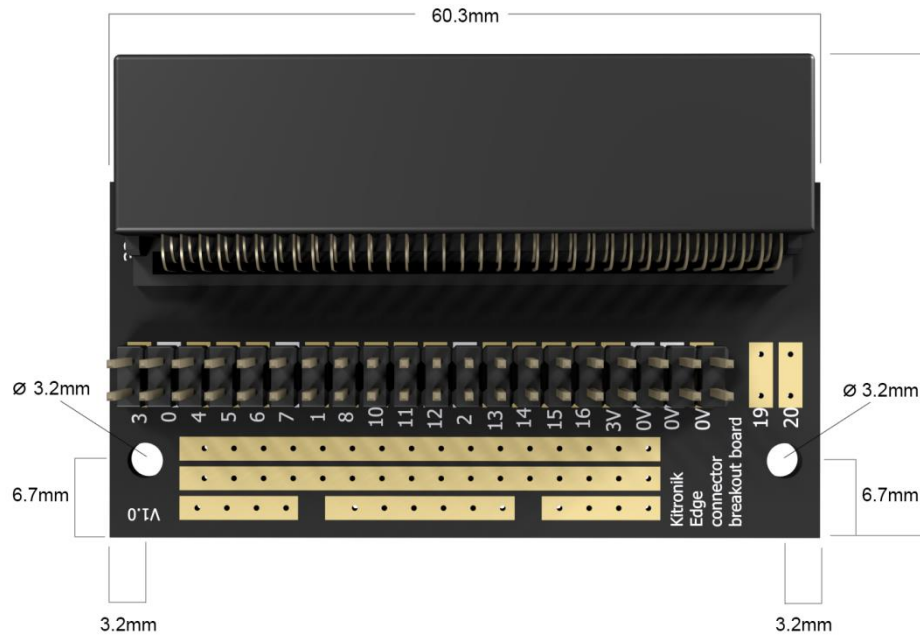
COL1

Column 1 on the LED matrix

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Dimensions



(Dimensions +/- 0.8mm)