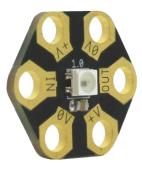# ZIP Hex LED

www.kitronik.co.uk/35140

Kitronik

Introduction:

The Kitronik ZIP Hex LED has a single RGB LED which can be controlled by a microprocessor to produce a full spectrum of colours. The LED is a WS2812Mini, for which software packages are available for the BBC micro:bit and other processors

Connection:

6 evenly spaced pads around the outside of the PCB can be used with M3 fixings or with croc-clips. Connecting power to the PCB can be done via the +V and 0V pads. Data to the LED can connected to the DIN pad. To chain ZIP Hex PCBs, or other ZIP LED boards, use the DOUT of the PCB and connect to the DIN of another ZIP LED, and also connect the +V and 0V pads of each board.

The design of the ZIP HEX makes it possible to stack them by rotating the PCB 180 degrees to create columns.

SPECIFICATION

Operating Voltage (+V)	3.5V to 5V
Supply Current	50mA at 5V
LED current	16mA per RGB channel at 5V
Pin description	+V – Voltage supply 0V – Ground supply DIN – Data in to LED (min 0.7x +V) DOUT – Data out of LED

Layout & Dimensions:

X6 Connection pads

ZIP LED

1.6mm

3.6mm Ø

19.5mm

3.6mm

21.5mm