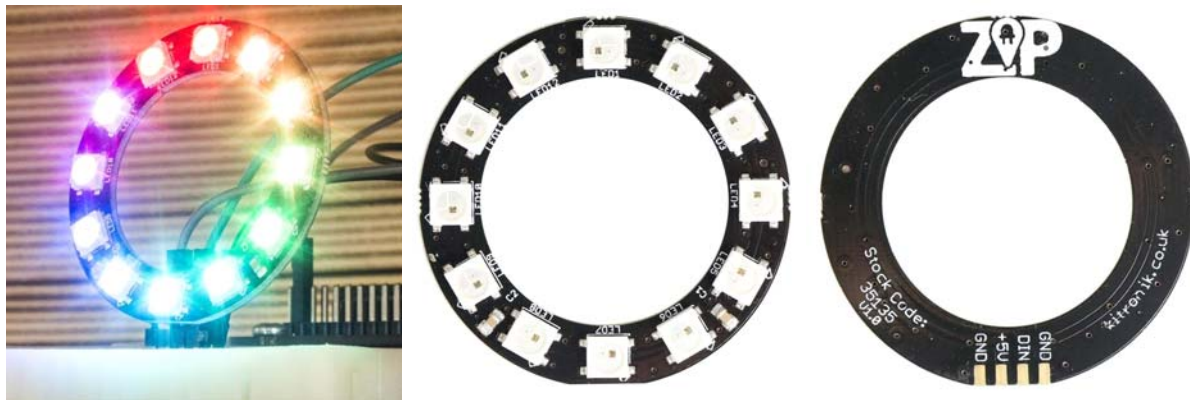# ZIP Circle - 12 ZIP LEDs/KIT 35135

Add light to your latest project with the Kitronik ZIP Circle. Each Circle has 12 individually addressable RGB LEDs which can be coded with the PXT Editor.

Each LED can be controlled independently and all LEDs are connected using the same three wire bus.

Each LED can produce a full spectrum of colours independent to all of the other LEDs on the bus. Each ZIP LED has a Red, Green and Blue element within the LED, and each of these can achieve 256 levels of brightness. This results in 16,777,216 possible output colours. Multiple ZIP LEDs can be connected to produce longer strings/strips.

The LEDs used are based on the WS2812B part which is compatible with Adafruit NeoPixel and other WS2812B driver code. They can also be coded in the MakeCode Block/Javascript editor with the NeoPixels blocks.

Features:

- Simple 3 wire connection for all LEDs.
- Compatible with any WS2812B driver code.
- They can be coded with the Microsoft MakeCode Editor for the BBC microbit.
- Integrated reset circuit.

Contents:

- 1 x Kitronik ZIP Circle.

Dimensions:

- Width: 7.5mm.
- Height: 3mm.
- PCB Height: 1.5mm.
- Inner Diameter: 29.2mm.
- Outer Diameter: 44.2mm.