

17. Neopixel Rainbow LED Strip and GVS Connector -10 LEDs

17.1. Introduction

- This is a colorful strip based on WS2812B beads, it can display the color of RGB and support multiple cascade at the same time.



17.2. Characteristics

- Standard 3-pin GVS ports is easy to plug.

- Both ends are equipped with a connector and it supports multiple cascade.
- It can drive the micro:bit in 3.3V.

17.3. Specifications

- SKU: EF04098
- Working Voltage: DC 3.0V
- Power Supply: 3v-5v
- Connector Type: Analog
- Number of beads: 10 pcs
- Pins Definition: 1-Signal 2-VCC 3-GND
- Response: Quick to response and high sensitivity
- Circuit: Simple drive circuit
- Stability: Stable and durable

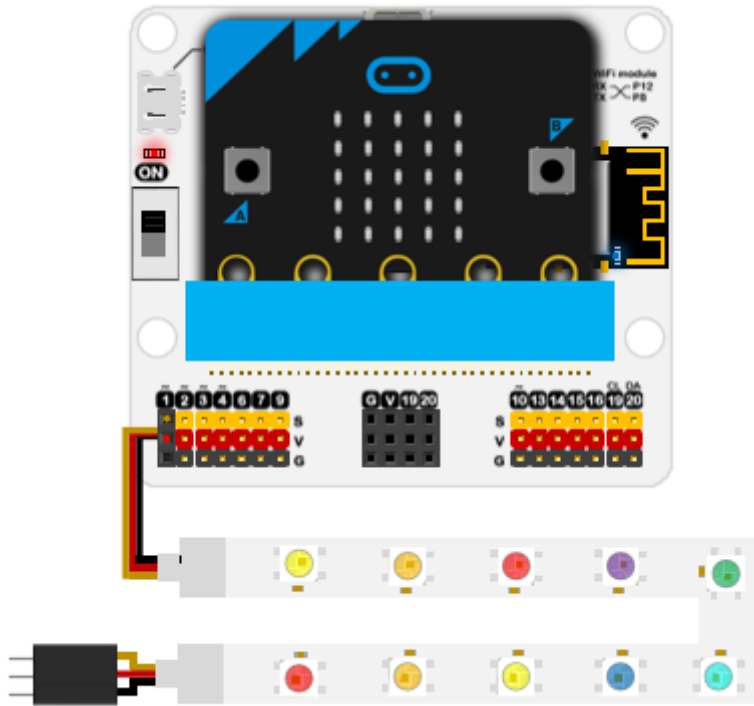
17.4. Outlook and Dimensions



17.5. Quick to Start

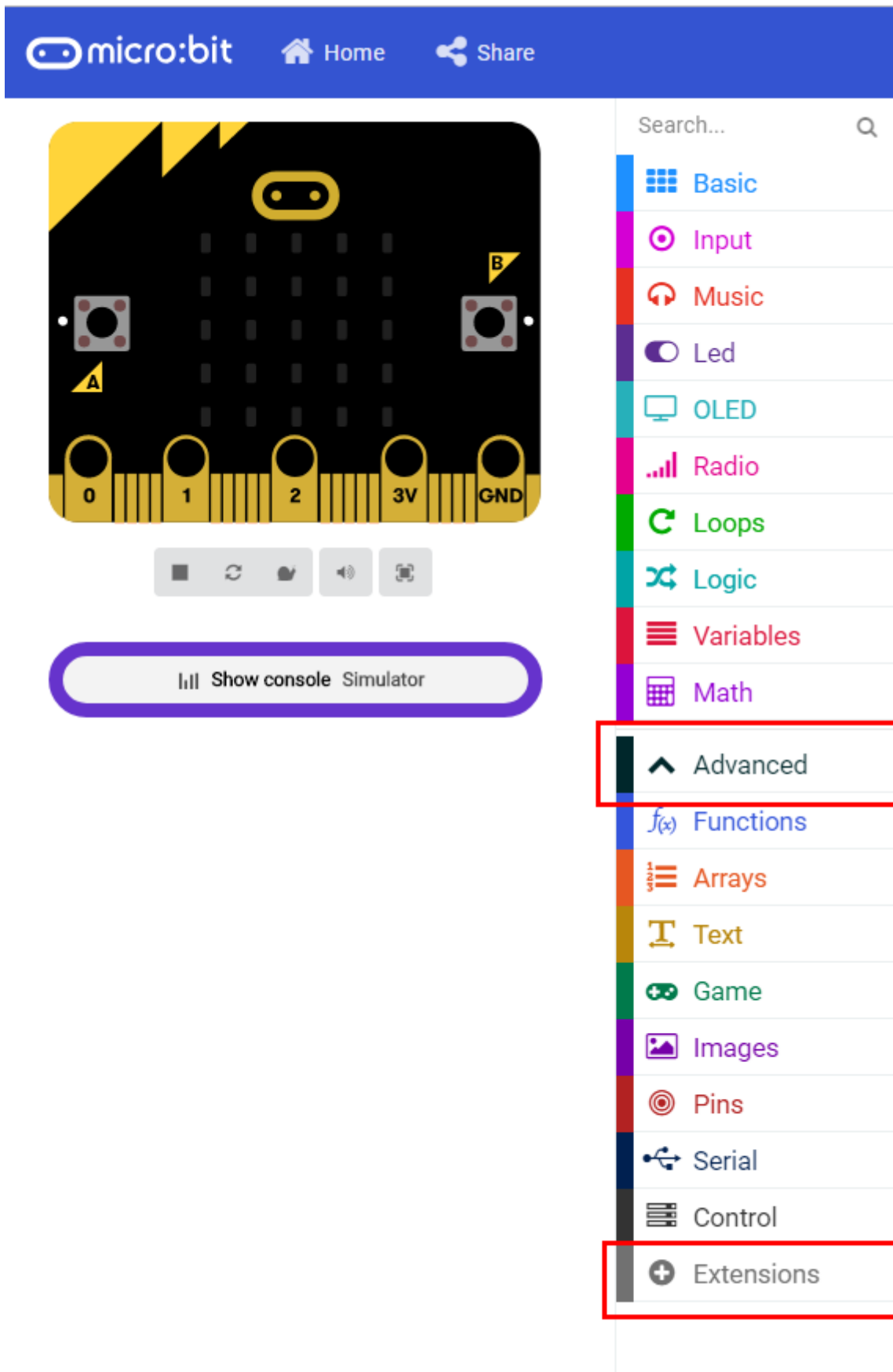
Connection Diagram

- Connect to the P1 port of the extension board.



Add Package

Click “Advanced” in MakeCode to check more choices.



Click “Extensions”, and search “`neopixel`” in the dialogue box to download the codebase of LED beads.

Programme as the Picture Shows

```
on start
  set strip to NeoPixel at pin P1 with 10 leds as RGB (GRB format)
  strip show rainbow from 1 to 360
```

```
forever
  strip rotate pixels by 1
  strip show
  pause (ms) 100
```

Reference

Links: https://makecode.microbit.org/_bfECLKegkYbR

You can also download it directly:



Results

- The LED strips light in a way of flowing-water.

17.6. Relevant Cases

17.7. Technique Files
