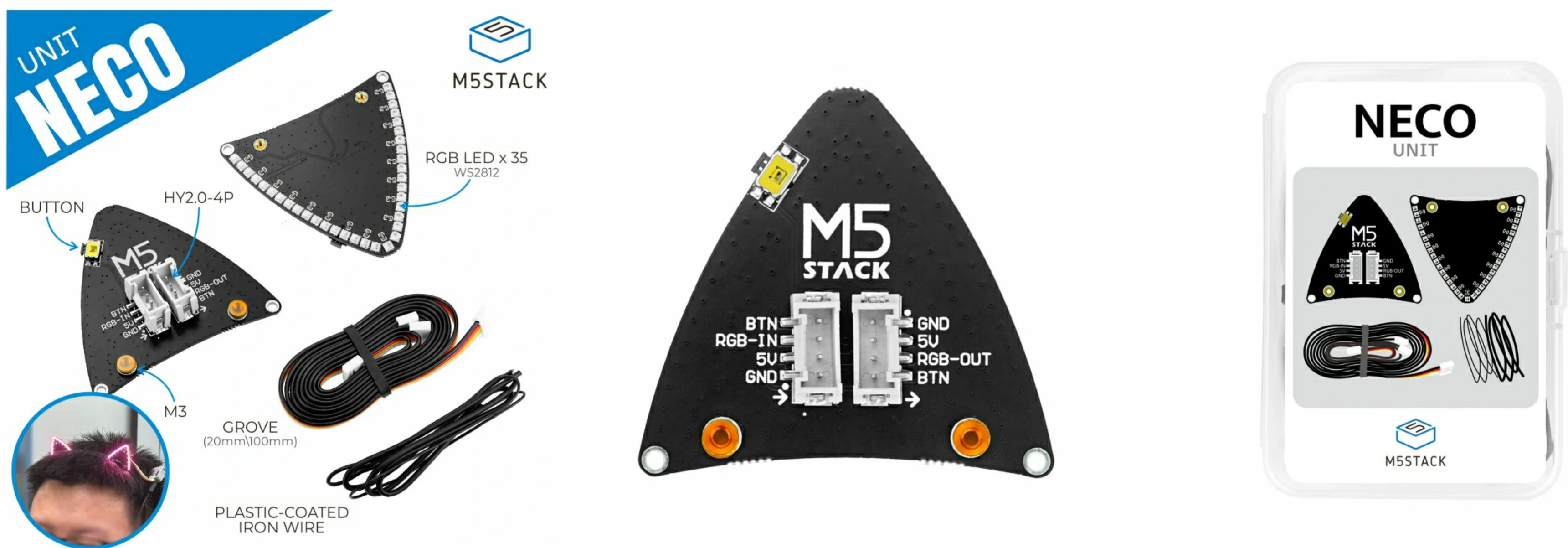


# Neco Unit

SKU:U163



## Description

**Neco Unit** is an RGB light board unit with cat ear shape, including 35 **WS2812C-2020** RGB lamp beads. It is equipped with two 4pin grove ports for connecting M5Stack host and expanding more units. In addition, there is a **button** to interact with the host and switch between different lighting effects. It is suitable for home decoration, party atmosphere, stage performance and other scenes.

If it is set to be in full brightness for a long time, it will cause the lamp bulbs to burn out, it is recommended to set the brightness to around 20.

## Features

- WS2812C-2020 RGB lamp bead
- HY2.0-4P
- BUTTON
- Compatible with multi-platform development:
  - UIFlow
  - Arduino

## Includes

- 2 × Neco Unit
- 2 × grove cable (20cm\100cm)
- 2 × plastic-coated iron wire

## Applications

- Home Decoration
- Party atmosphere
- Stage performances

## Specification

Resources	Parameters
RGB lamp bead	WS2812C-2020
Consumes current	5mA (each RGB lamp bead)
Brightness level	256 levels of brightness display
Connection method	Serial cascade interface
Operating temperature	0-85°C
Number of colors	16777216 colors
Product Size	41*46*1mm
Package Size	95*65*25mm
Product Weight	9.2g
Package Weight	34.7g

## Products related to this item

[CoreS3 \(K128\)](#)

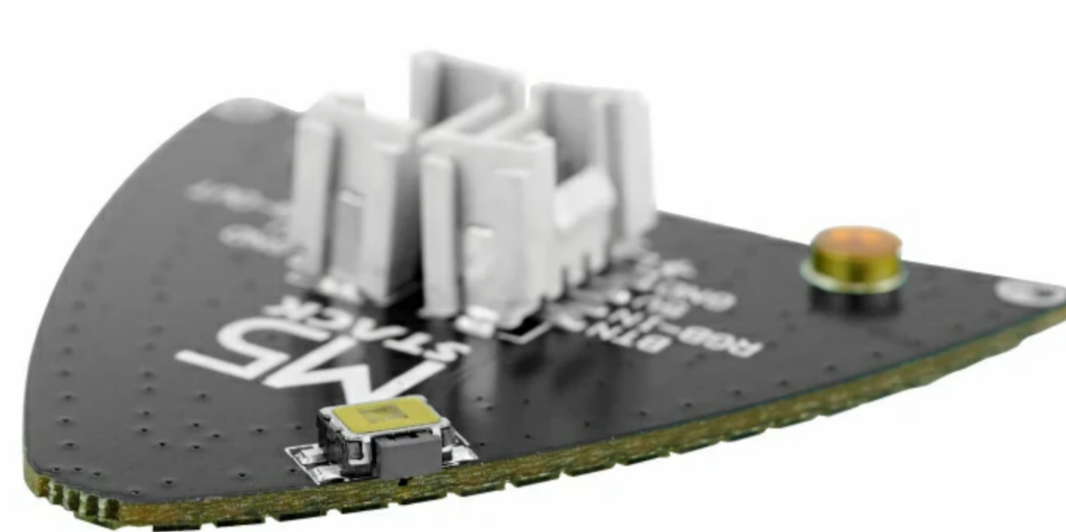
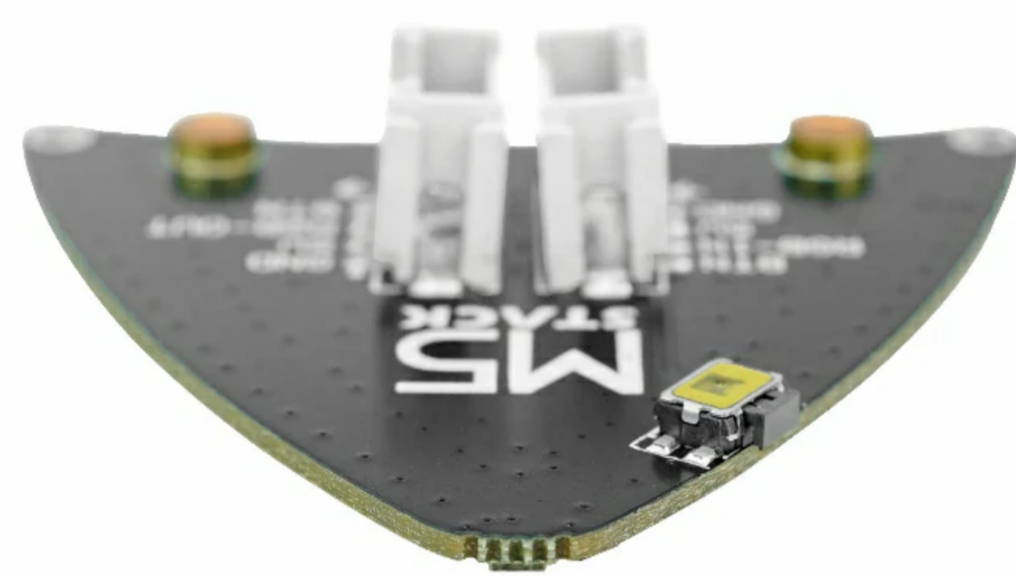
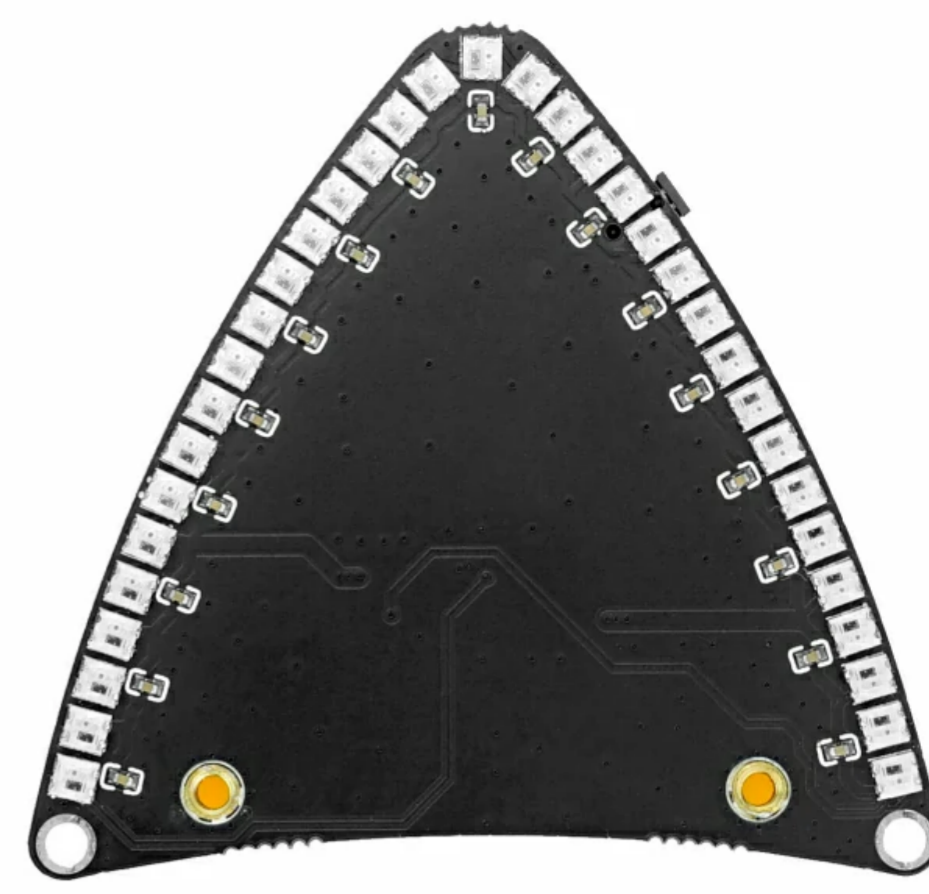
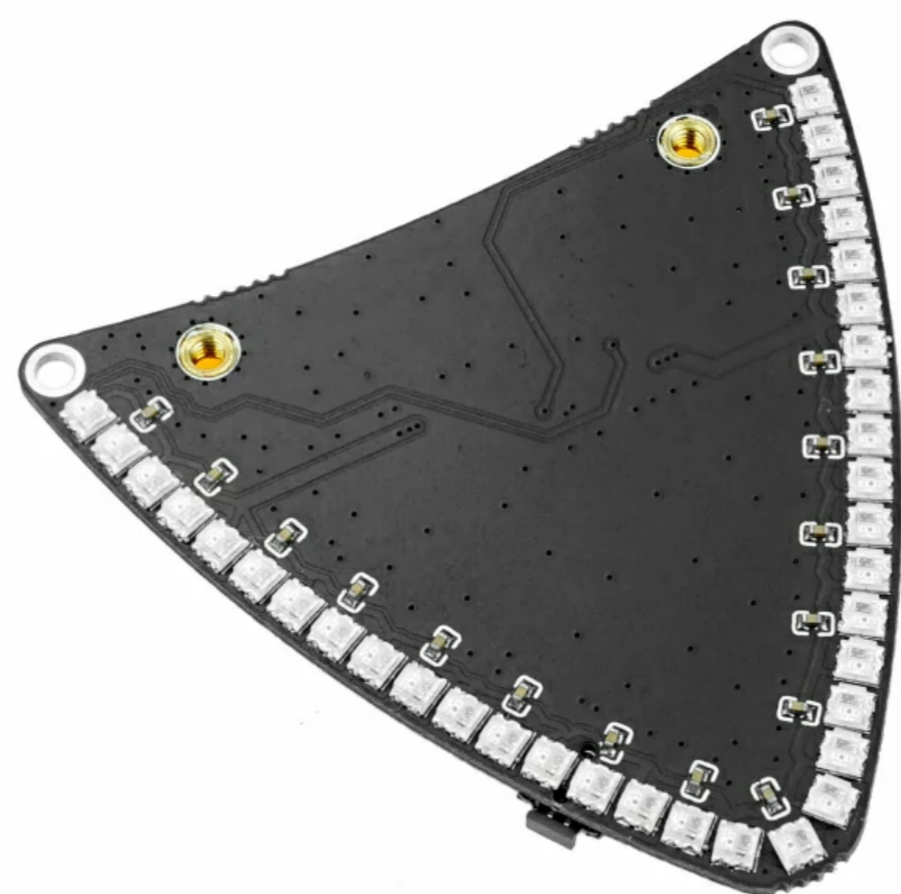
[CORE2 \(K010\)](#)

[BASIC-V27 \(K001-V27\)](#)

[M5StickC PLUS \(K016-P\)](#)

AtomS3 (C123)

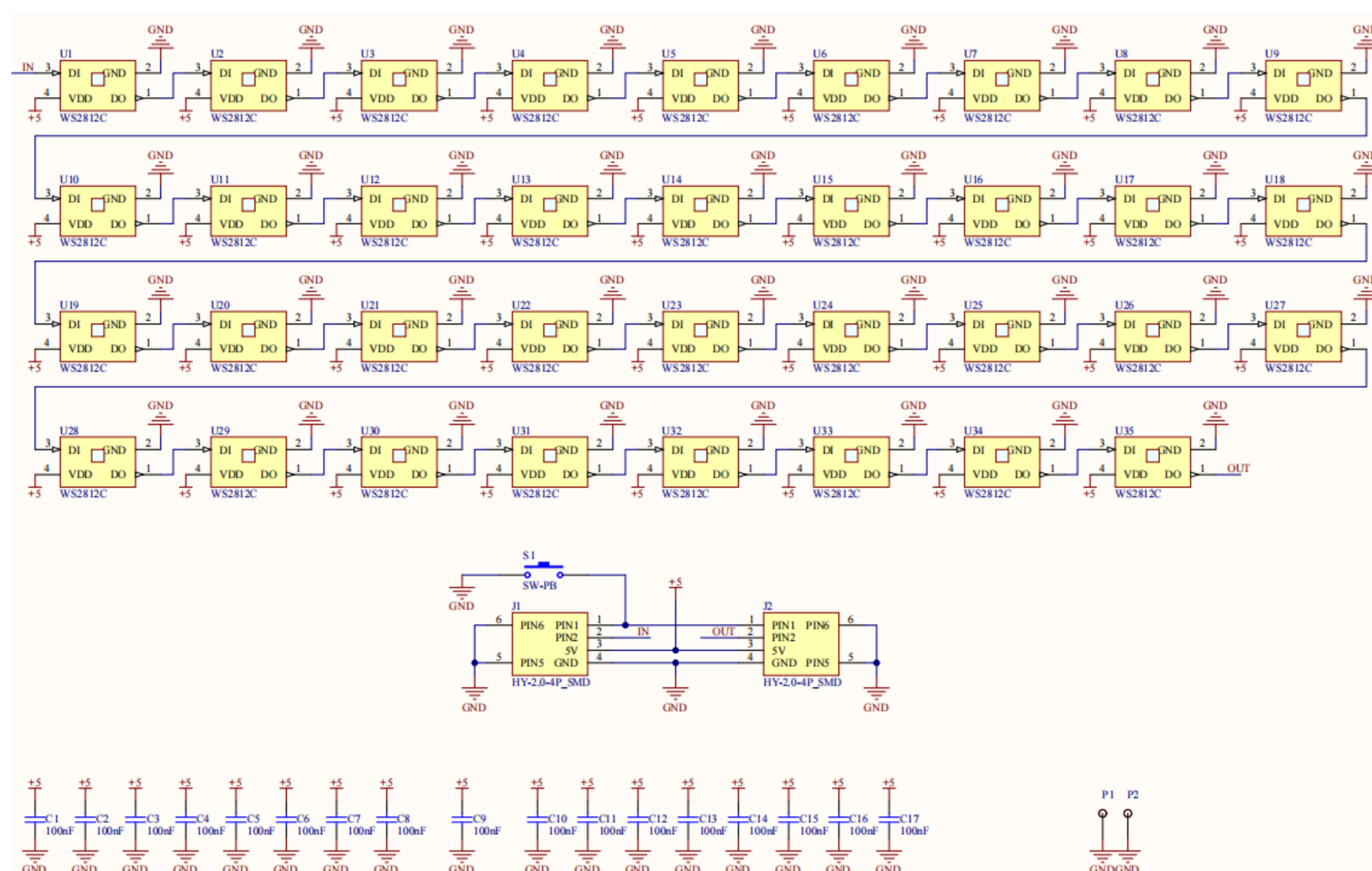
StampS3 (S007)



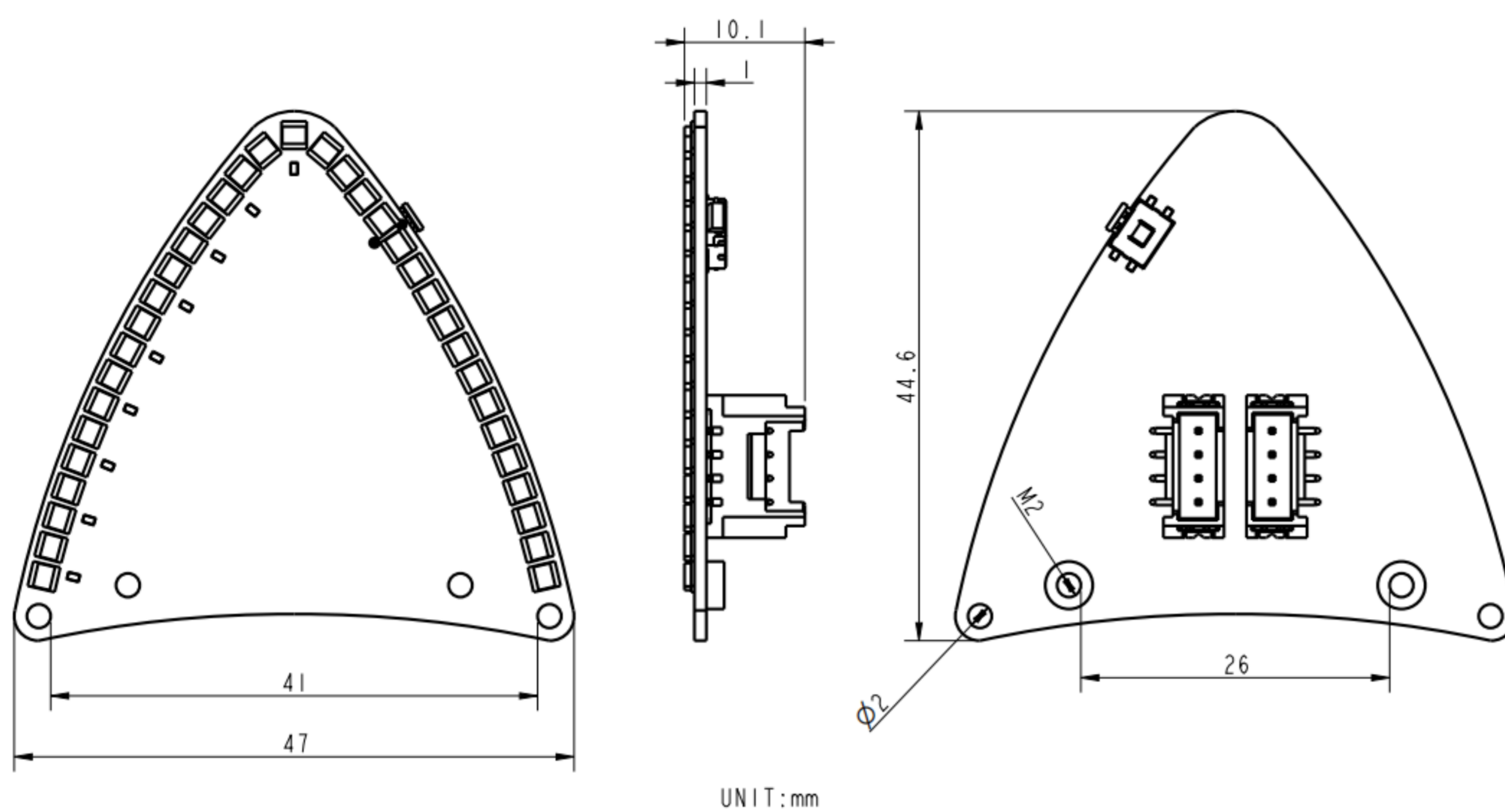
## Related Link

- [WS2812C-2020 Datasheet](#)
- [3D Drawing](#)

## Schematic



# Module Size



## Examples

### Arduino

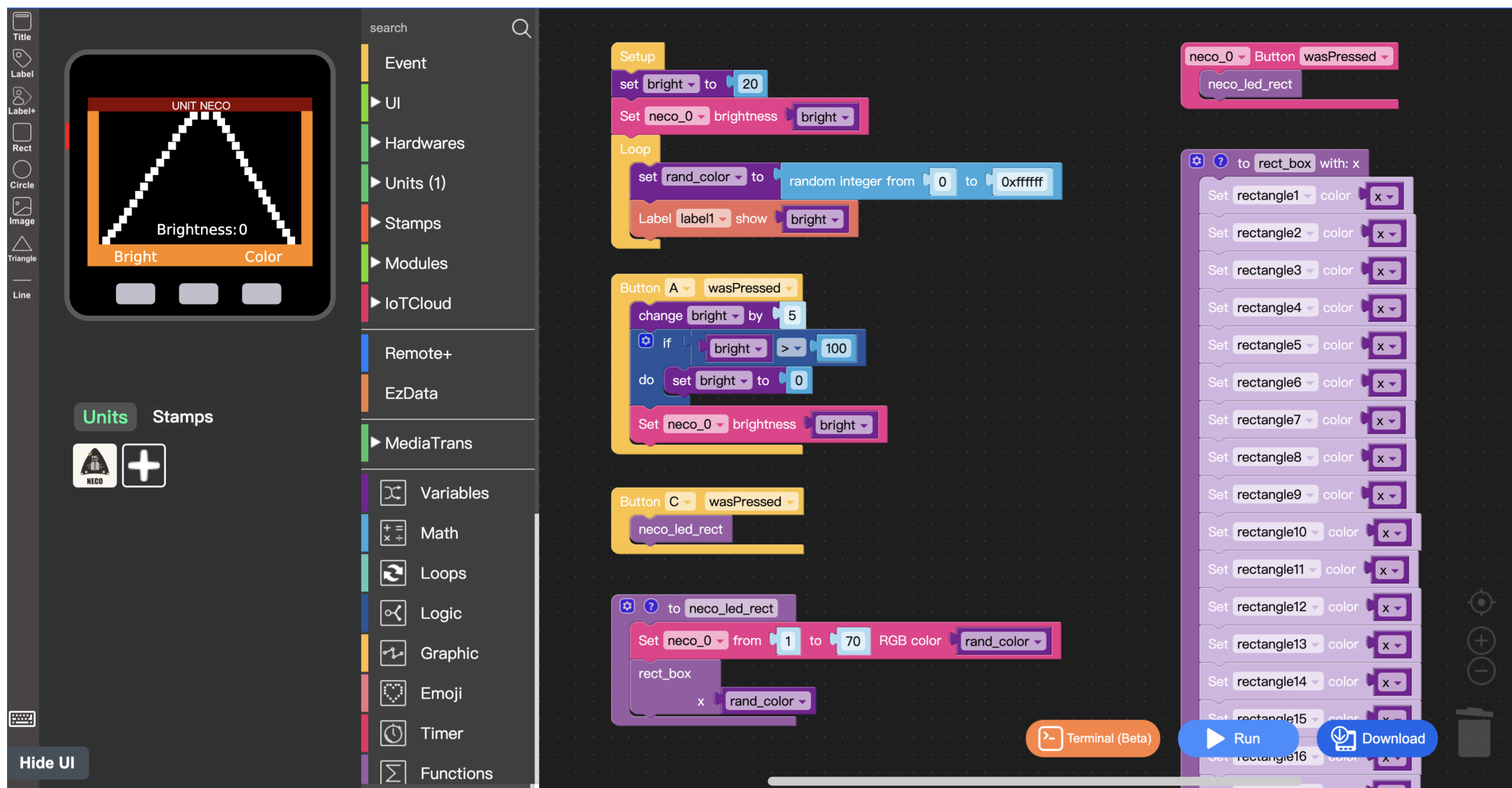
```
#include <Adafruit_NeoPixel.h>
#define PIN          2 // M5AtomS3
#define NUMPIXELS 70
Adafruit_NeoPixel pixels(NUMPIXELS, PIN, NEO_GRB + NEO_KHZ800);
#define DELAYVAL 100

void setup() {
  pixels.setBrightness(20);
  pixels.begin();
}

void loop() {
  pixels.clear();
  for(int i=0; i<NUMPIXELS; i++) {
    pixels.setPixelColor(i, pixels.Color(244, 24, 208));
  }
  pixels.show();
}
```

# UIFlow

- o Neco Unit UIFlow Example



## UIFlow Blocks

- o Set single led color



- o Set single led color



- o Set single led in random color



- o Set multiple led colors



- o Set multiple led colors



- Set multiple led in one random color

Set `neco_0` from 1 to 5 in one random color

- Set multiple led in random color

Set `neco_0` from 1 to 5 in random color

- Set all led color

Set `neco_0` all RGB color

- Set all led color

Set `neco_0` all RGB color Palette

- Set all led in one random color

Set `neco_0` all in one random color

- Set all led in random color

Set `neco_0` all in random color

- Set brightness

Set `neco_0` brightness 20

- Button callback

`neco_0` Button wasPressed

- Obtain button status

Obtain `neco_0` button `wasPressed`