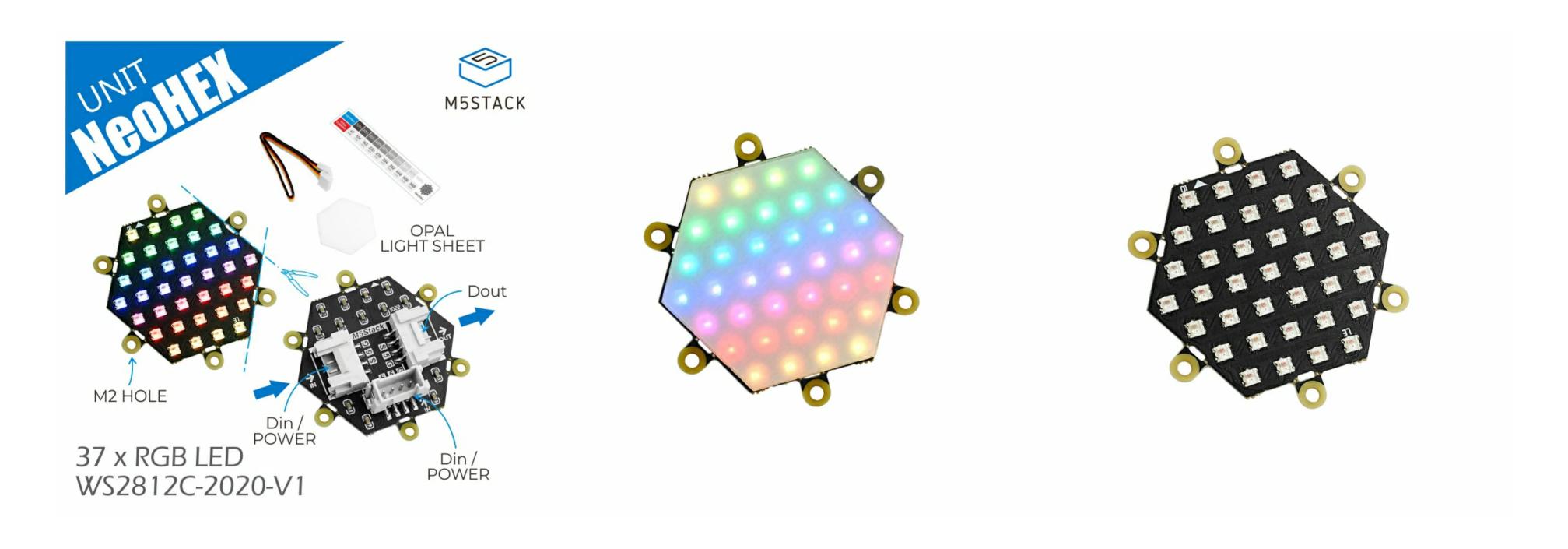
Unit NeoHEX

SKU:A045-B



Description

NeoHEX is a hexagonal board with 37 RGB LED flexible beads and will be sure to 'WOW' plenty. Use single BUS control, and support multiple boards connecting. Two sets of different angle input connectors are provided for independent power supply + signal control. External structure with fixing ears for easy installation. With its opal light sheet, the diffusion creates a gentle glow and provides innovative solutions to transform your living spaces into unique pieces of functional art.

Product Features

- o WS2812C-2020-V1
- Number of LEDs: 37
- Support multiple boards connection
- 6x fixing ears (removable)
- Comes with opal light sheet
- Single pixel support 256 levels of brightness display, can be combined for 16777216 kinds of full color display

Included

- 1x NeoHEX Unit
- 1x Opal light sheet
- 1x Power Consumption Reference Card

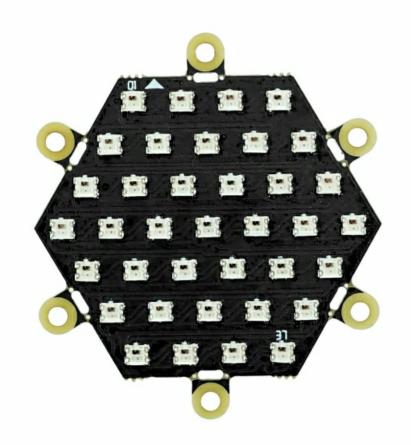
Applications

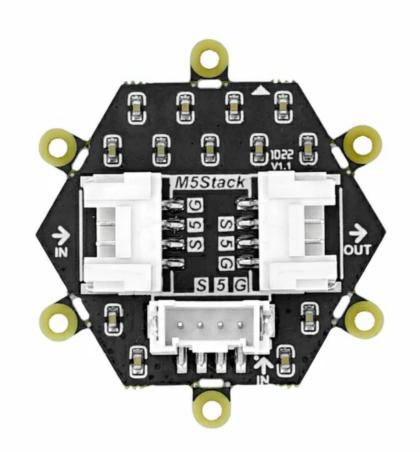
Lighting decoration

Specifications

Specification	Parameters
LED Bead Model	WS2812C-2020-V1
Number of light	37
beads	57
Voltage supply	3.7 ~ 5.3V
Logic input level	-0.3V ~ VDD+0.7
Output/output interface	HY2.0-4P interface: 2x input (signal, power), 1x output (extension)
Refresh Rate	30 frames (1024 cascades)
Power	Actual measurement of power consumption (37 lights are fully lit, brightness 100%): Red Light: DC5V@207mA Green Light: DC5V@109mA Blue Light: DC5V@208mA White light: DC5V@568mA
Adjustable brightness	Level 256
Support Colors	16777216 kinds of colors
Fixing hole diameter	2mm
Net Weight	3.7g

Gross Weight	Para93eters
Product Size	40*36*7mm
Package Size	93*138mm







Brightness/Power consumption reference

LIGHTING	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
TOTAL CURRENT	47 mA	104 mA	163 mA	220 mA	278 mA	334 mA	392 mA	448 mA	506 mA	568 mA	NeoHex

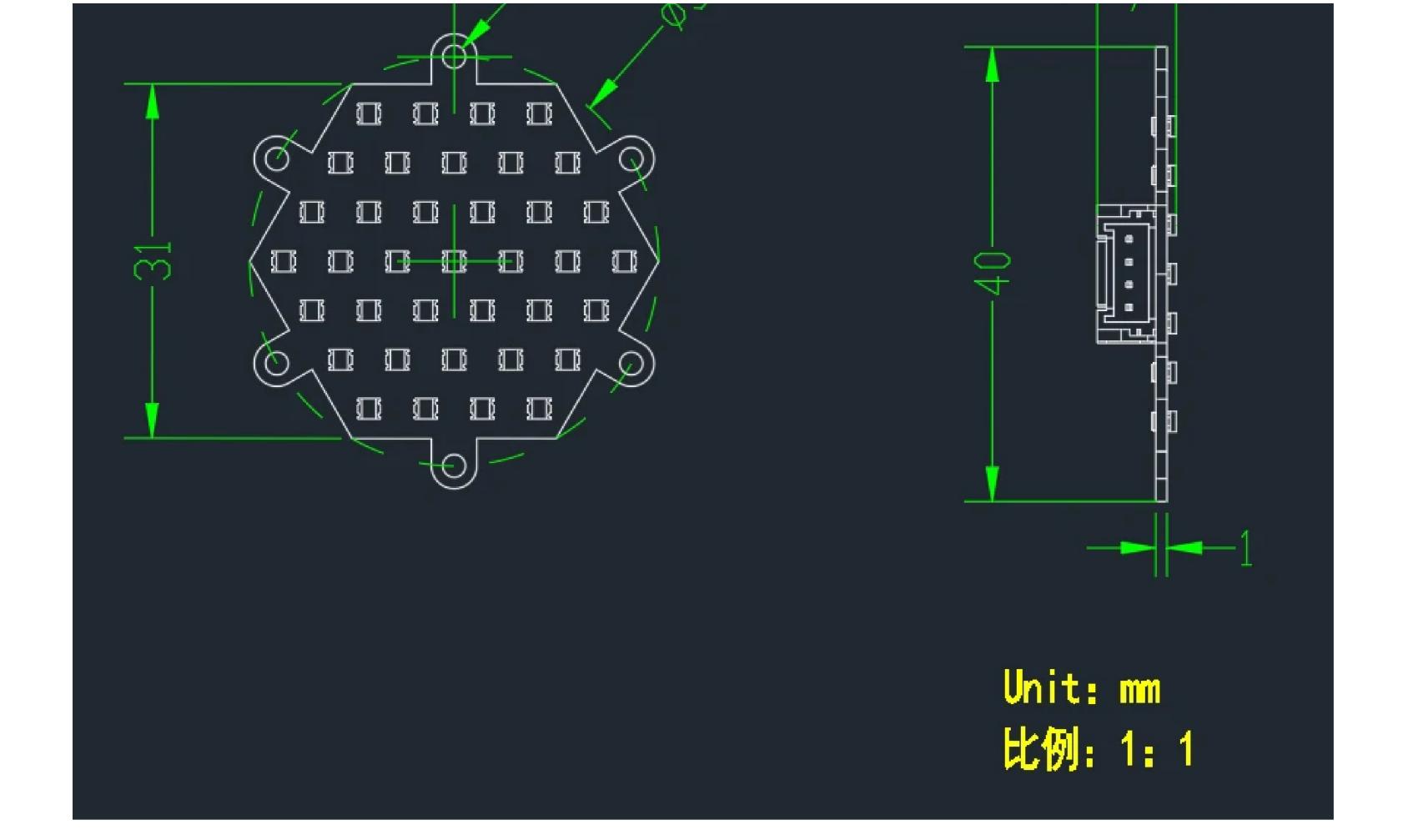
Drive conditions

Different M5 main control in the USB power supply conditions of the light board drive for reference.

- Actual drive conditions:
 - ATOM: White light brightness is 82% normal drive (>Unable to light up at 86%)
 - CORE: White light brightness is 100% normal drive
 - CORE2: White light brightness is 100% normal drive
 - M5StickC: White light brightness is 86% normal drive (>Unable to light up at 90%)
 - M5StickCPlus: White light brightness 78% normal drive (>Unable to light up at 86%)

Structure Diagram



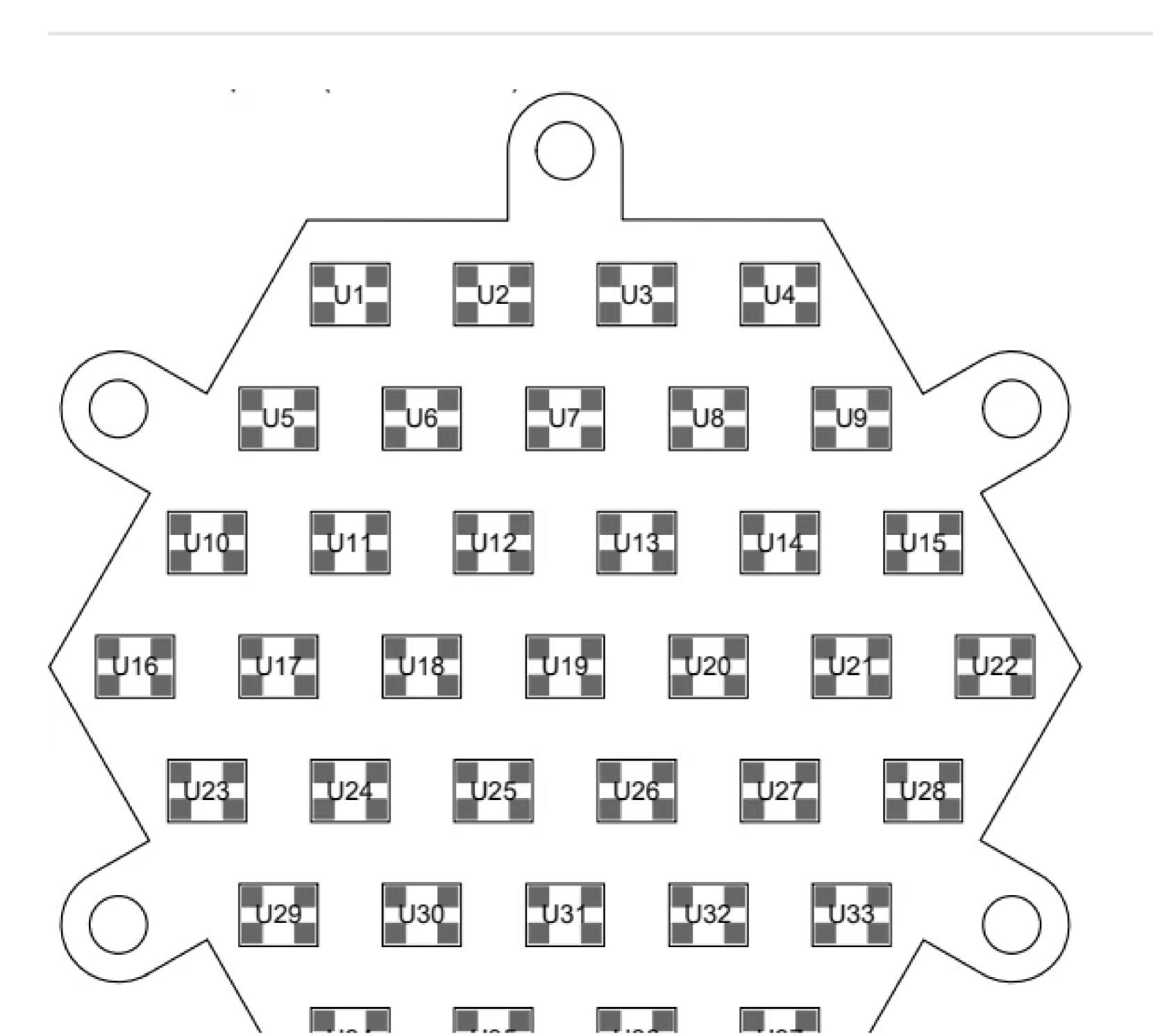


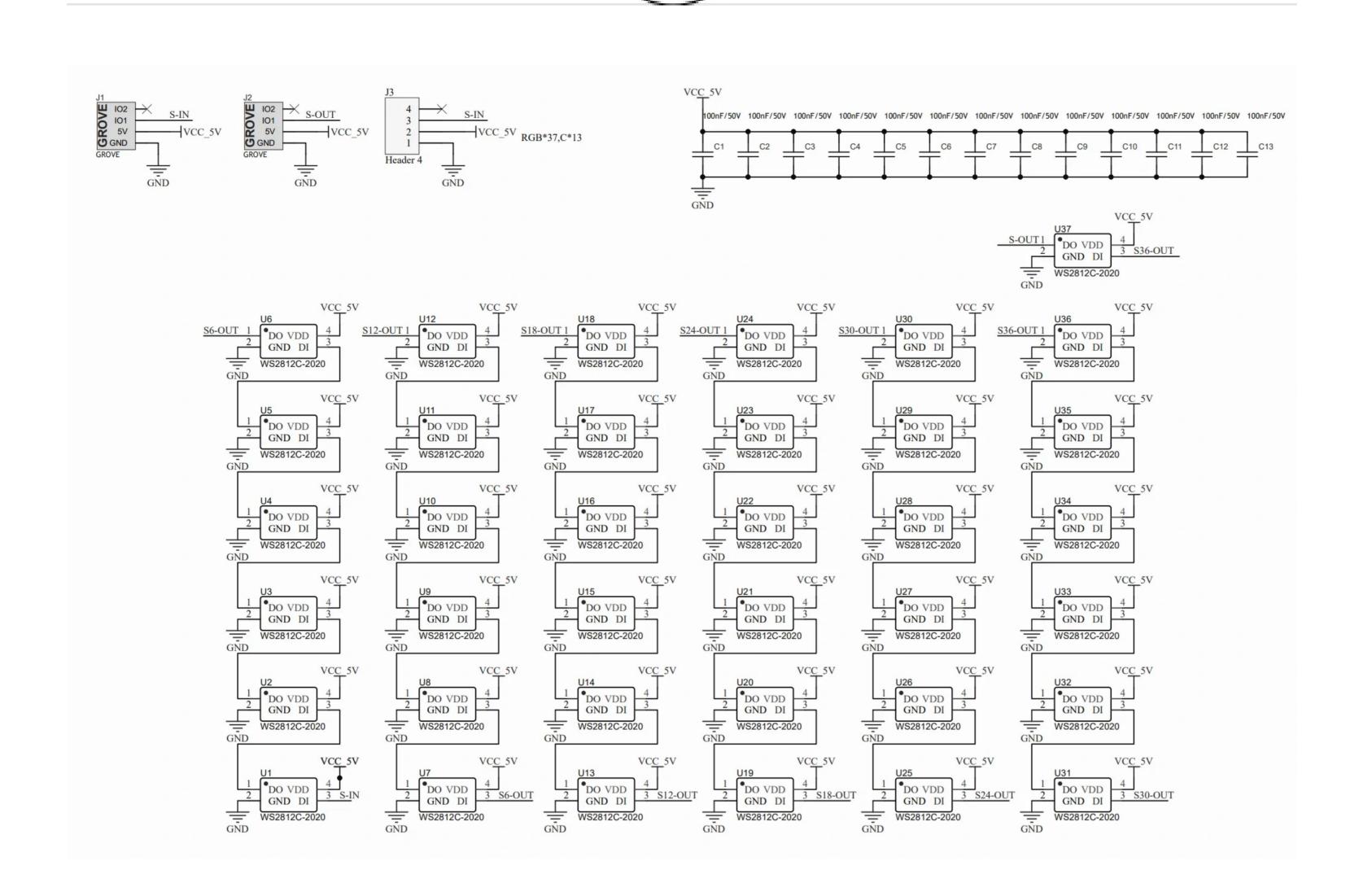
Pin Mapping

M5GO PORT-A

M5Core(PORT A)	GPIO22	GPIO21	5V	GND
Unit NeoHEX		Data Pin	5V	GND

Schematics





__U35__

Learn



Simple Watch Device

Make a simple watch device using UIFlow.

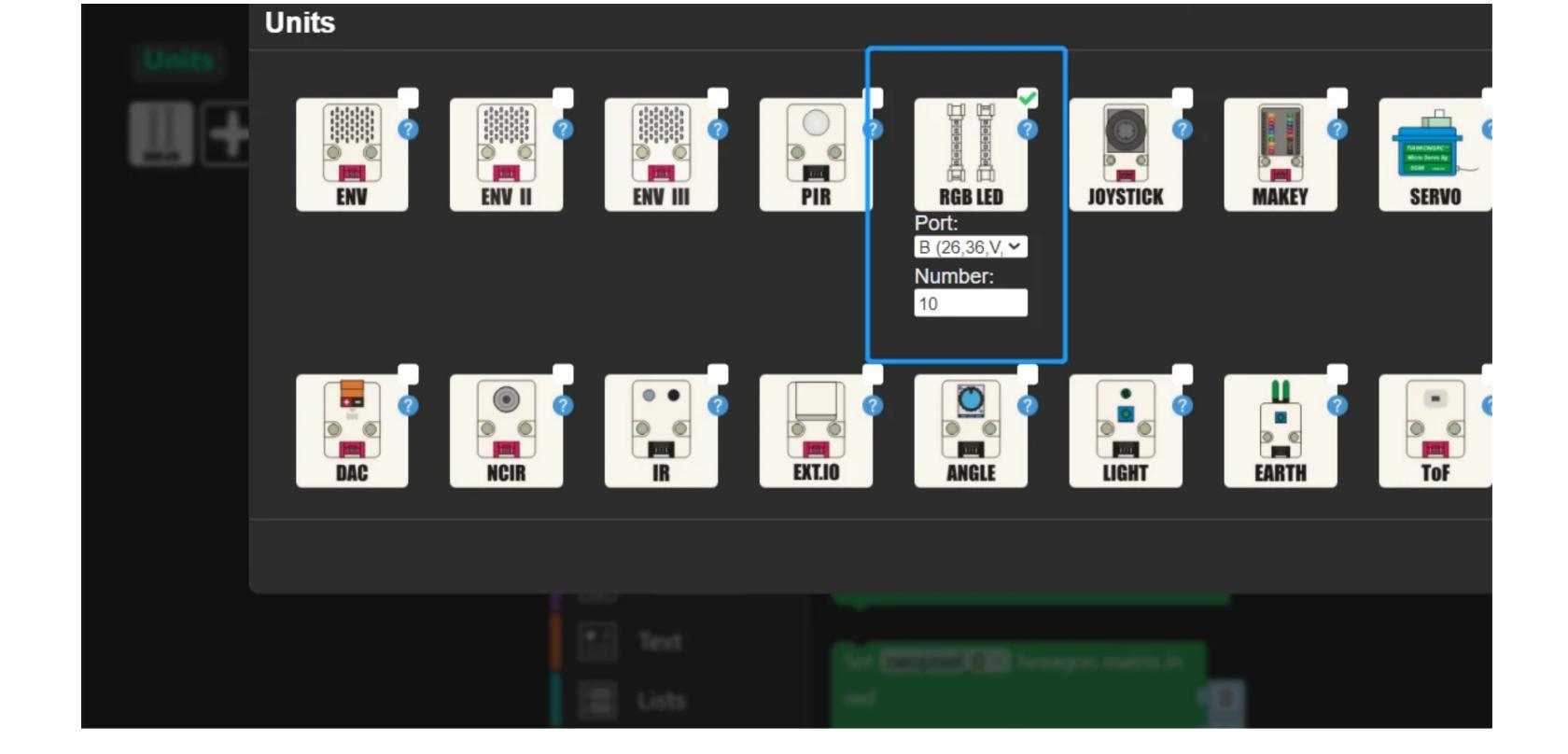
Example

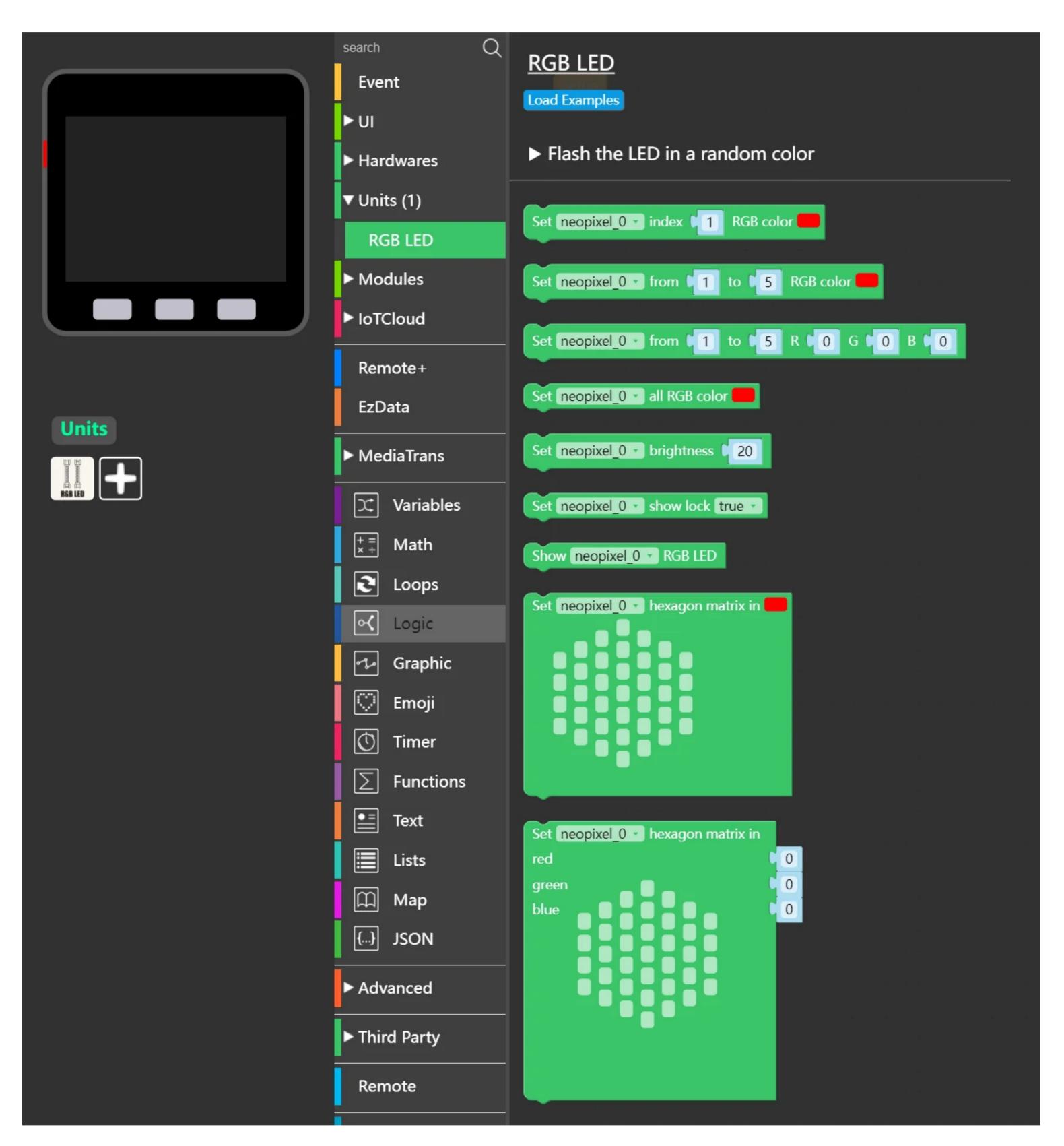
Arduino

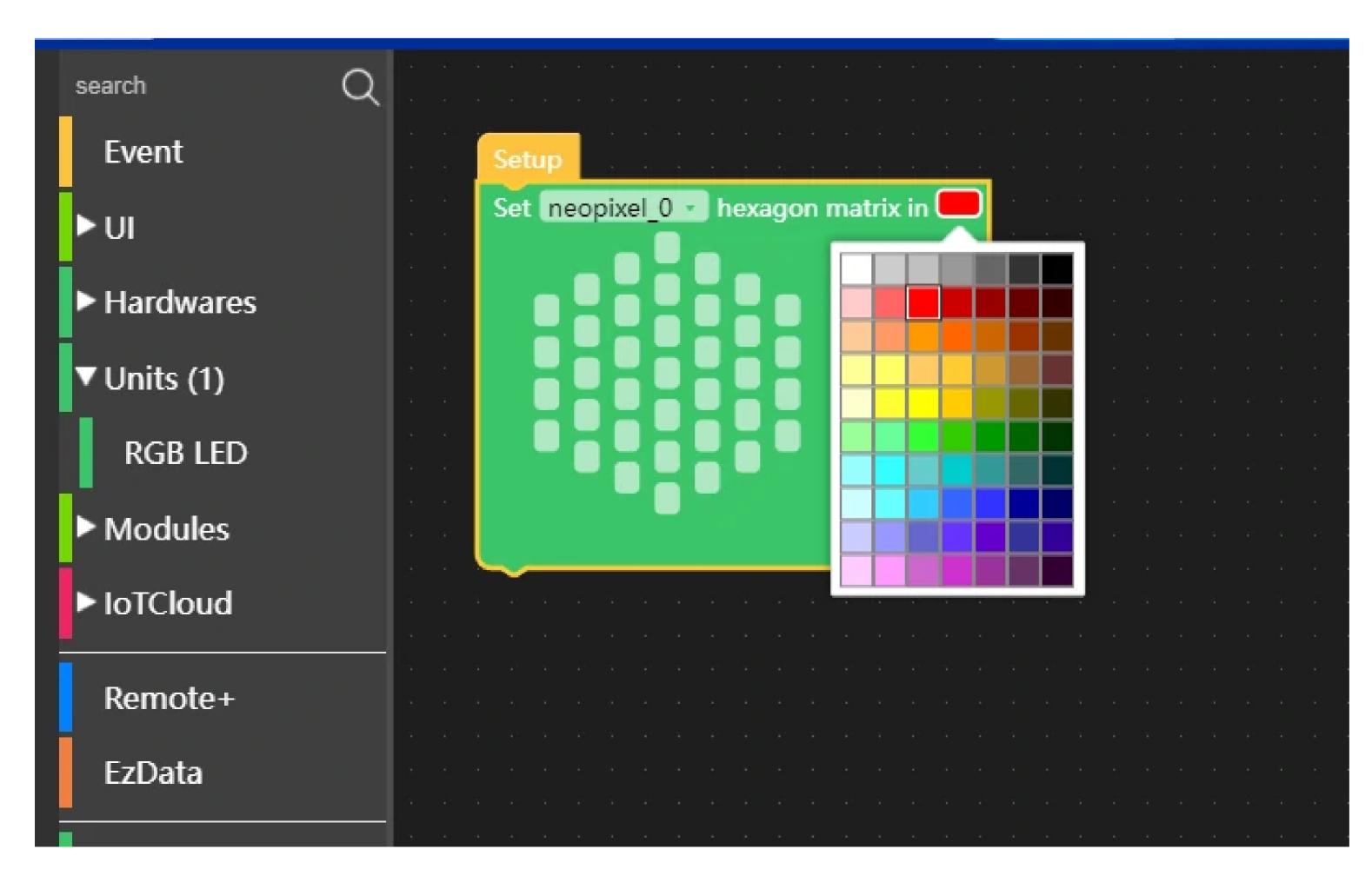
- NeoHEX Example
- FastLED Library
- FastLED API Reference

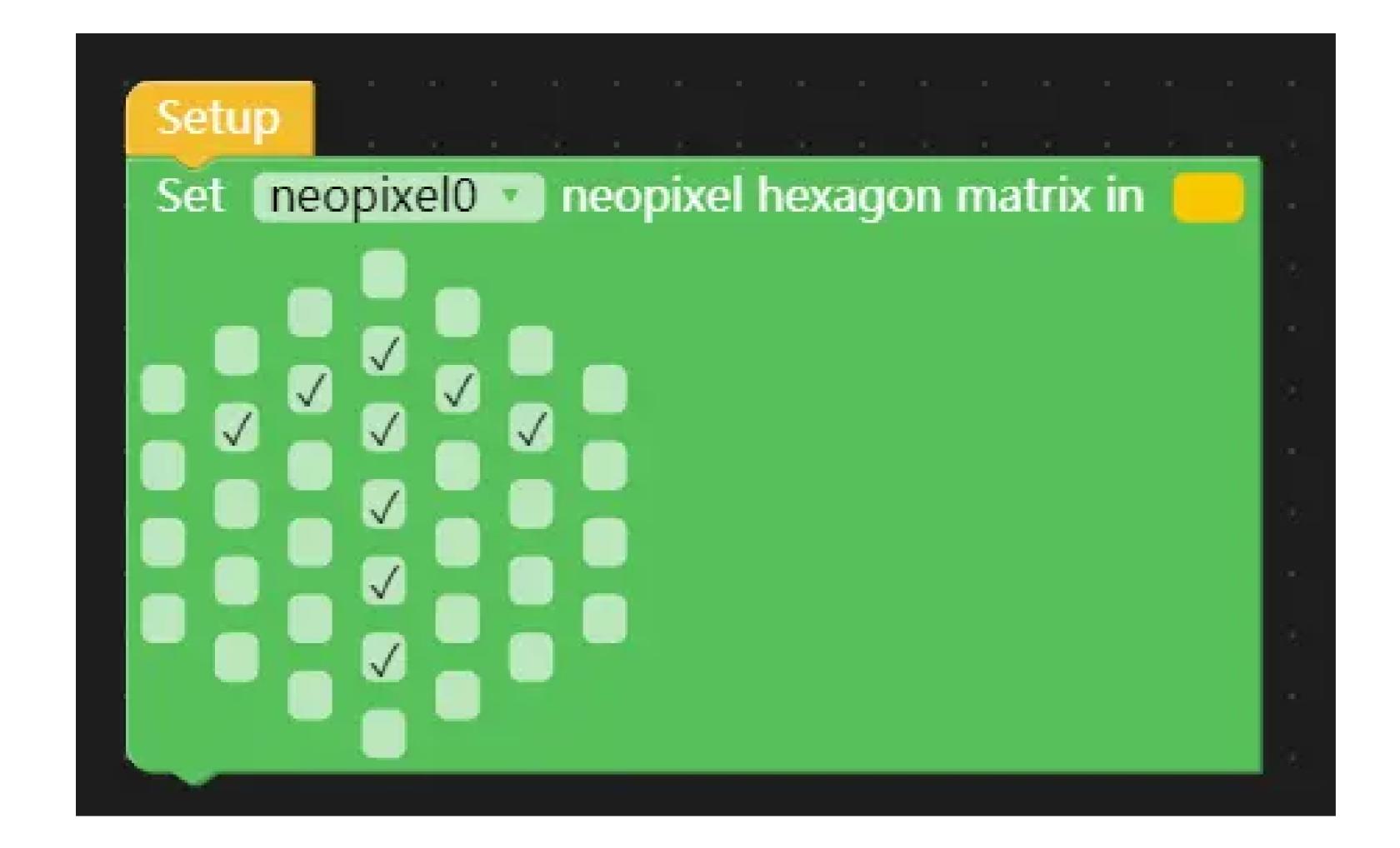
UIFlow

UNIT NeoHEX UIFlow TEST









FAQ