RGB bar control

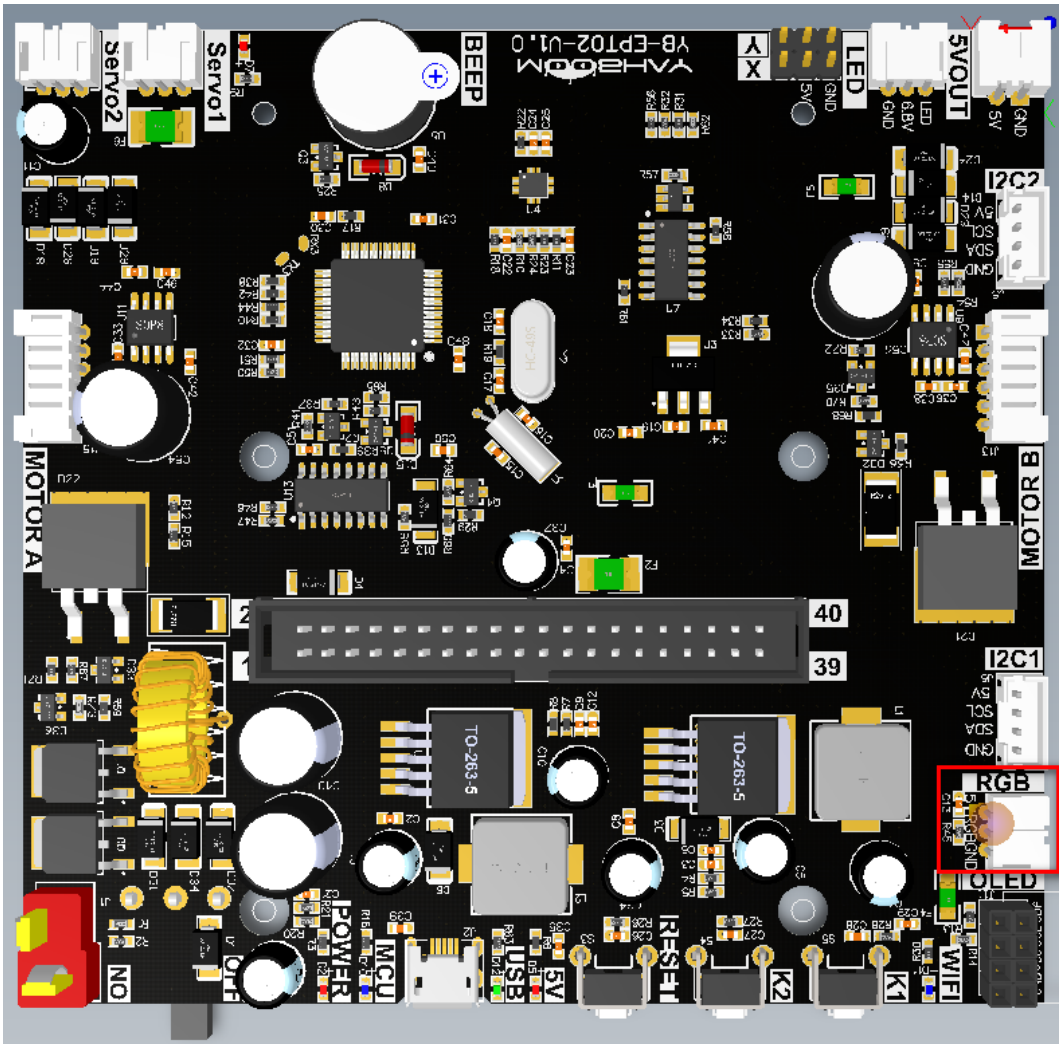
1、Experiment goal

Control the RGB colorful light bar on Transbot to display different special effects, manually control the color of the RGB light bar, and set the color of a single RGB light.

2、Experiment preparation

The position of the red box in the picture below is RGB colorful light bar interface.

RGB colorful lights support individual control of the color of a light, as well as control all lights at the same time.



The Transbot_Lib library functions needed to be used to control the special effects of RGB bar:

```
set_colorful_effect(effect, speed=255, parm=255)
```

Parameter explanation: RGB programmable lights with special effects display.

effect=[0, 6], 0: stop lighting effect, 1: running water light, 2: marquee light, 3: breathing light, 4: gradient light, 5: starlight dots, 6: battery display

speed=[1, 10], the smaller the value, the faster the speed changes.

parm, can be left blank, as an additional parameter. Usage 1: Breathing light effect is passed in [0, 6] to modify the color of breathing light.

Return value: None.

```
set_colorful_lamps(led_id, red, green, blue)
```

Parameter explanation: RGB programmable light strip control, which can be controlled individually or collectively. The special effect of RGB light needs to be stopped before control.

led_id=[0, 16], control the corresponding number of RGB lights; led_id=0xFF, control all lights.

red,green,blue=[0, 255], which means the color RGB value.

Return value: None.

3、Experimental operation and phenomenon

Please the video.

4、Code

Code path: Transbot/Samples/7.rgb_effect.ipynb