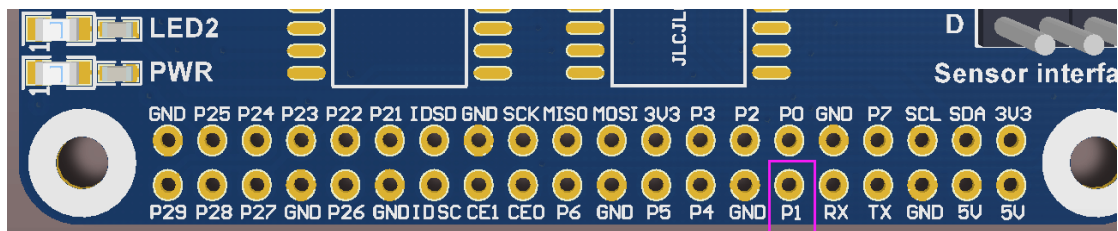


PWM CONTROL BACKLIGHT

--WAVESHARE LCDS

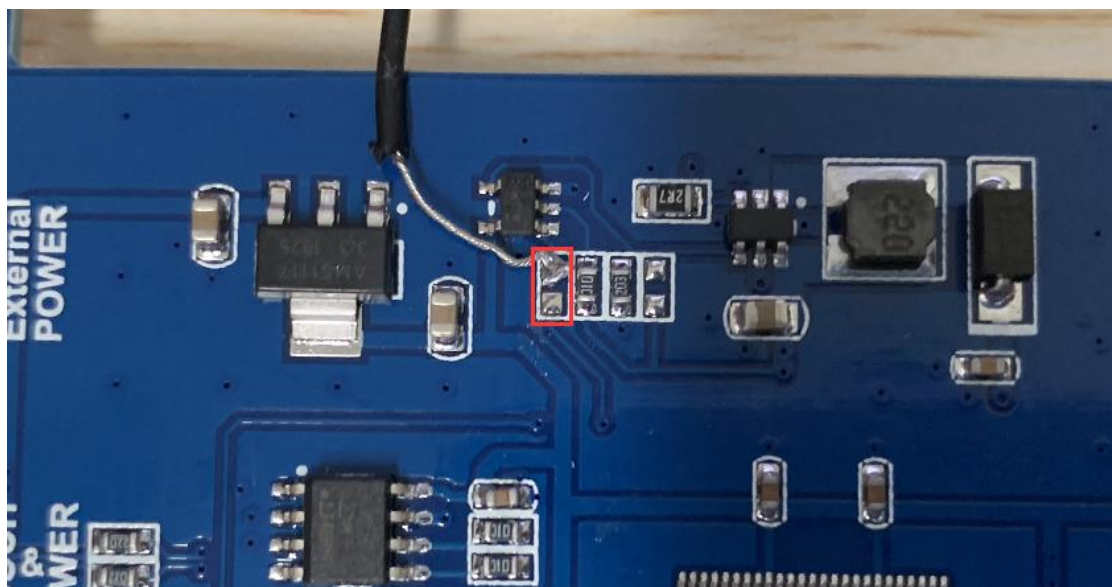
Control Pin

The control pin is P1 of Raspberry Pi.



5inch HDMI LCD (B)

Remove the 0Ω resistor and wire the pad to P1 of raspberry Pi as below:



Execute commands on Terminal of Raspbian to adjust the backlight

```
gpio -g pwm 18 1024
```

```
gpio -g mode 18 pwm #set the pin as PWM
```

```
gpio pwmc 1000
```

```
gpio -g pwm 18 X #change the brightness, X ranges 0~1024
```

5inch HDMI LCD (G)/5inch HDMI LCD (H)

Remove the 22Ω resistor and wire the pad to P1 of raspberry Pi as below



Execute commands on Terminal of Raspbian to adjust the backlight

```
gpio -g pwm 18 1024
```

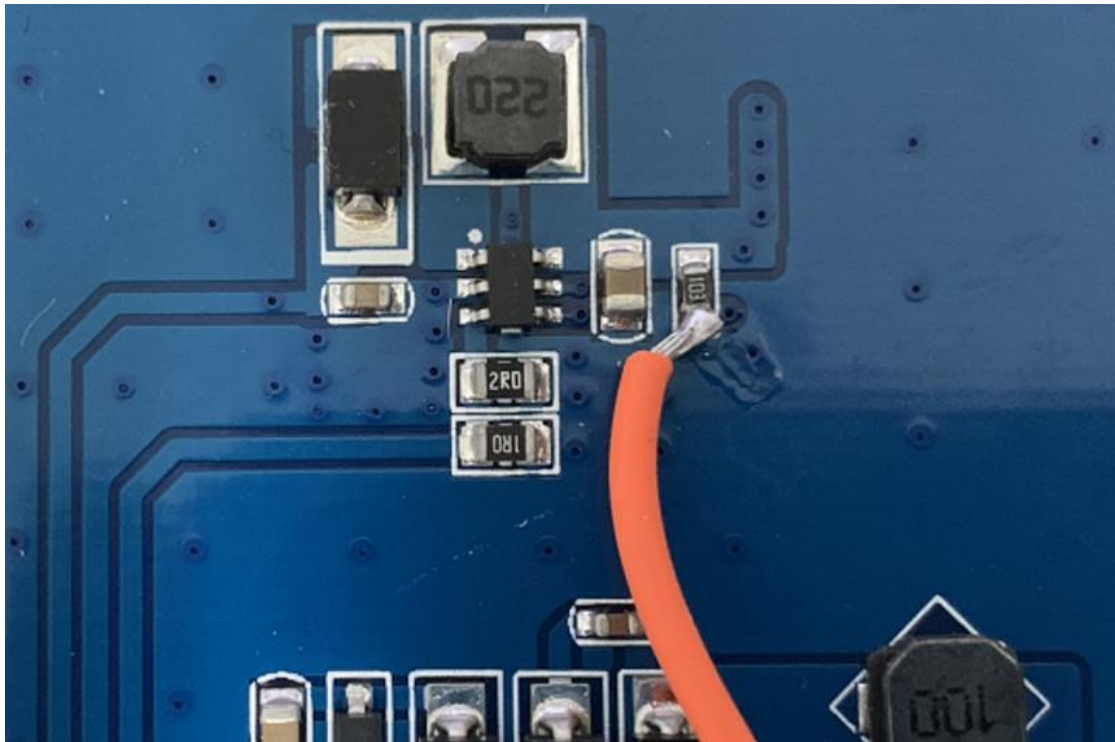
```
gpio -g mode 18 pwm #set the pin as PWM
```

```
gpio pwmc 1000
```

```
gpio -g pwm 18 X #change the brightness, X ranges 0~1024
```

7inch HDMI LCD (B)

Connect the pad to P1 of Raspberry Pi as below:

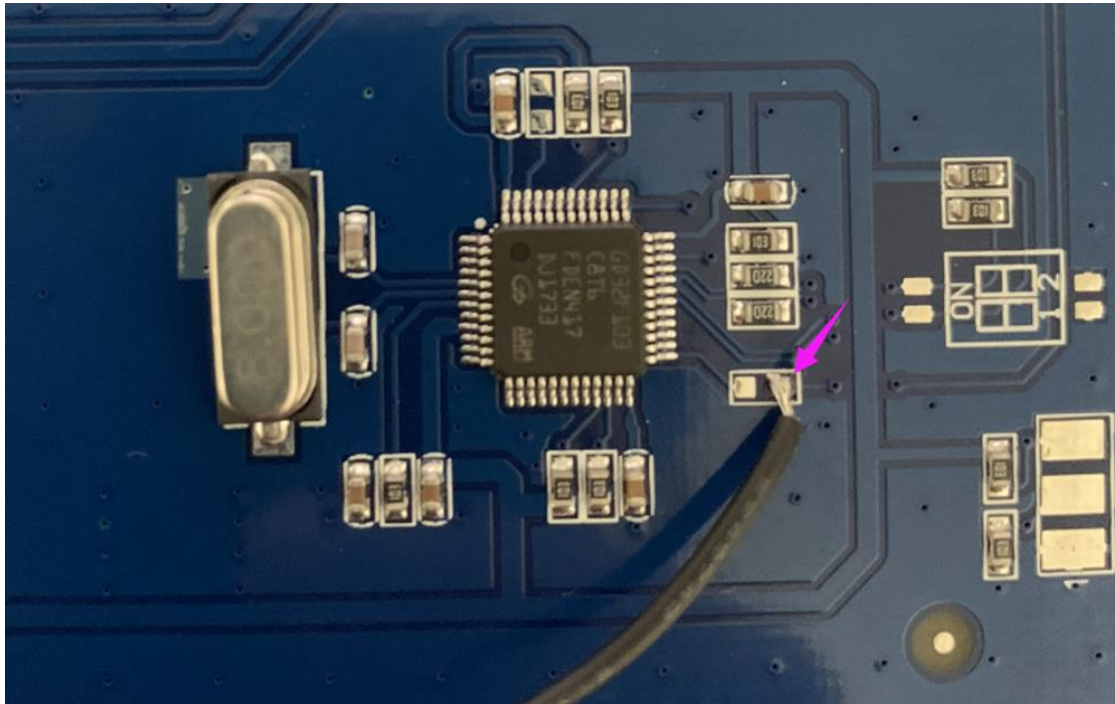


Execute commands on Terminal of Raspbian to adjust the backlight

```
gpio -g pwm 18 1024  
  
gpio -g mode 18 pwm #set the pin as PWM  
  
gpio pwmc 1000  
  
gpio -g pwm 18 X #change the brightness, X ranges 0~1024
```

7inch HDMI LCD (C) Rev2.2/2.1 version

Connect the pad to P1 of Raspberry Pi as below.



Execute commands on Terminal of Raspbian to adjust the backlight

```
gpio -g pwm 18 1024
```

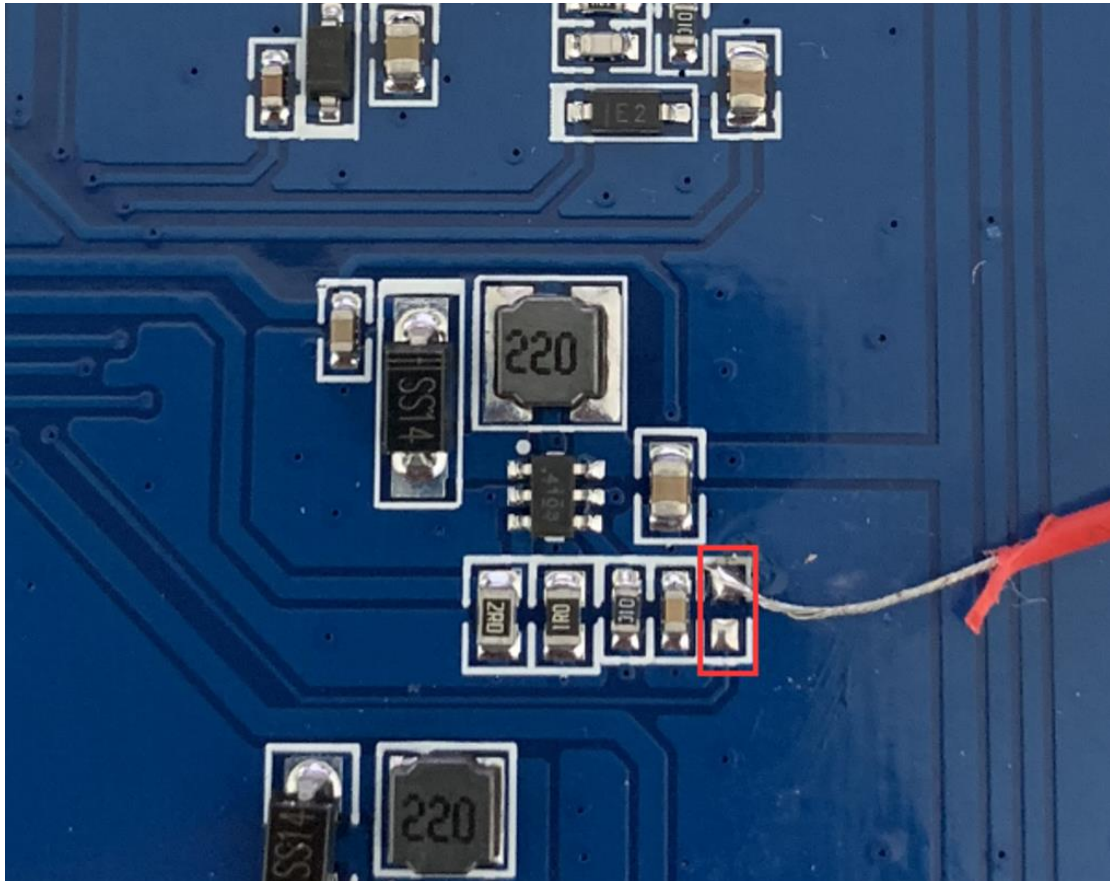
```
gpio -g mode 18 pwm #set the pin as PWM
```

```
gpio pwmc 1000
```

```
gpio -g pwm 18 X #change the brightness, X ranges 0~1024
```

7inch HDMI LCD (H)

Remove the 22Ω resistor, wire the pad to P1 of Raspberry Pi as below:



Execute commands on Terminal of Raspbian to adjust the backlight

```
gpio -g pwm 18 1024
```

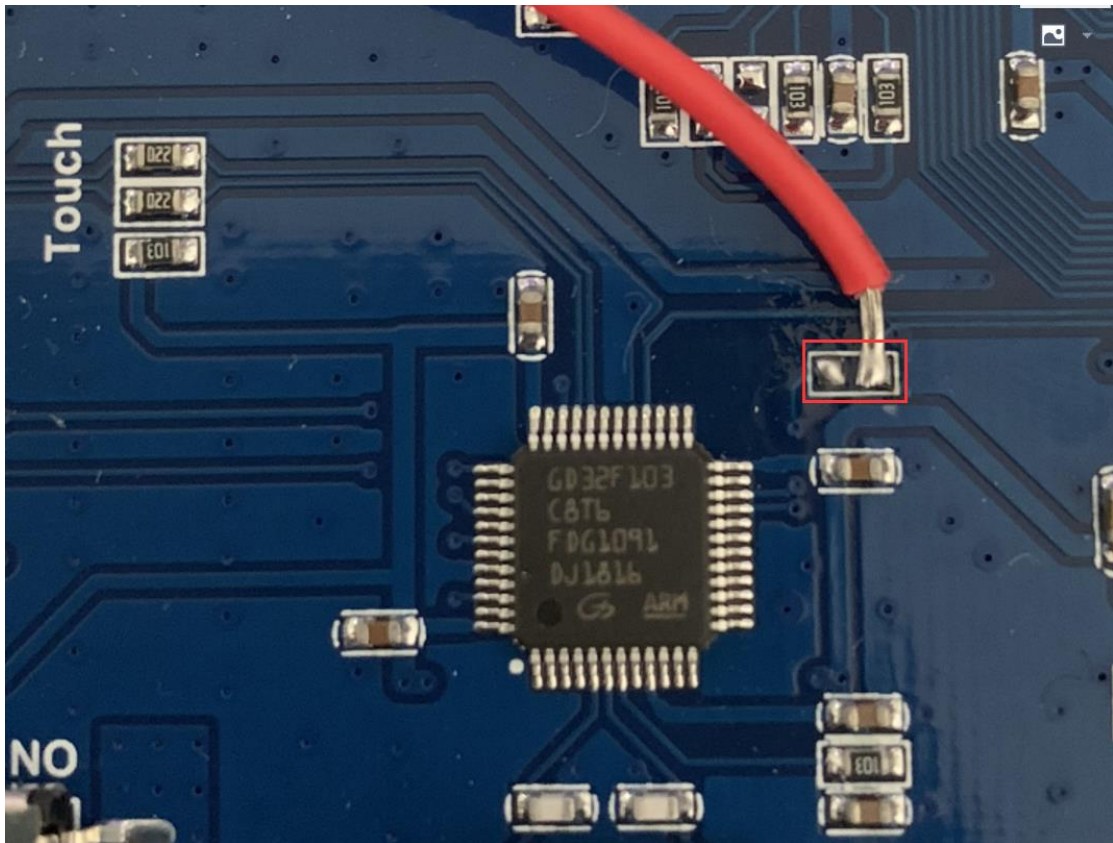
```
gpio -g mode 18 pwm #set the pin as PWM
```

```
gpio pwmc 1000
```

```
gpio -g pwm 18 X #change the brightness, X ranges 0~1024
```

10.1inch HDMI LCD (B)

Remove the 0Ω resistor, and wire the pad to P1 of Raspberry Pi



Execute commands on Terminal of Raspbian to adjust the backlight

```
gpio -g pwm 18 1024
```

```
gpio -g mode 18 pwm #set the pin as PWM
```

```
gpio pwmc 1000
```

```
gpio -g pwm 18 X #change the brightness, X ranges 0~1024
```