

10. Control the RGB cooling fan

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The RDK-X3-Robot factory image system will start the oled service by default. After the OLED service is started, the /root/sunriserobot /app_SunriseRobot/ Oled.py file will be run. The function of the file is to drive the OLED screen to display system information as well as turn on the fan and lighting effects. Therefore, please do not arbitrarily move or modify this file, to avoid the startup service can not find the file and run failure.

10.2. Control the RGB cooling fan

```
# 导入smbus，如果没有安装，请运行pip3 install smbus安装
# If it is not installed, run pip3 install smbus
import smbus
import time
bus = smbus.SMBus(0)
```

On the fan, start=[1-9], start=1 is the fastest speed, start=2~9, the higher the value, the faster the speed.

```
start = 1
bus.write_byte_data(0x0d, 0x08, start)
time.sleep(.05)
```

Close the fan.

```
bus.write_byte_data(0x0d, 0x08, 0x00)
time.sleep(.05)
```

Turn on the lighting effect, effect=[0-4], representing different lighting effects: 0 water light, 1 breath light, 2 running horse light, 3 rainbow lights, 4 dazzling lights.

```
effect = 2
bus.write_byte_data(0x0d, 0x04, effect)
time.sleep(.05)
```

Turn off the lights.

```
bus.write_byte_data(0x0d, 0x07, 0x00)
time.sleep(.05)
```

