

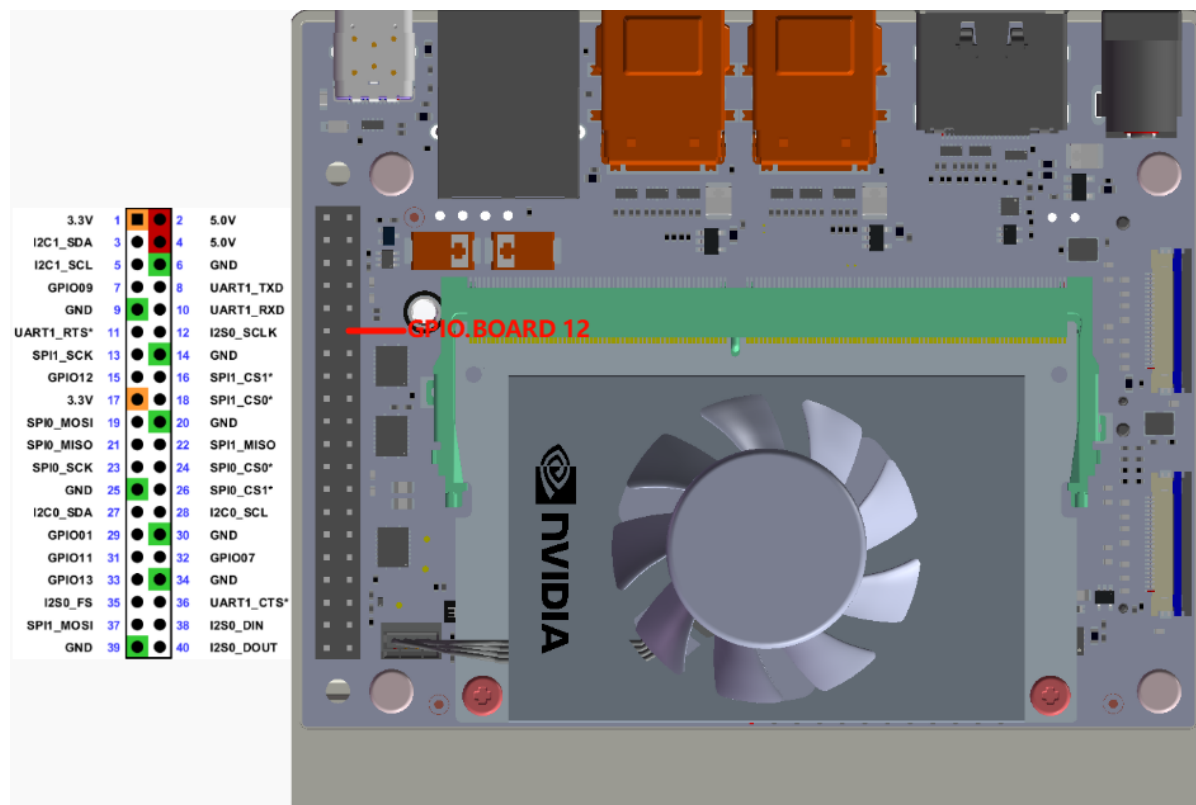
# GPIO output

## GPIO output

1. GPIO pin diagram
2. Run the program
3. Program effect

## 1. GPIO pin diagram

GPIO.BOARD 12 pin corresponds to GPIO.BCM 18 pin:



## 2. Run the program

Currently the GPIO output control function is abnormal, waiting for NVIDIA software to fix!

```
cd ~/jetson-gpio/samples
```

```
export JETSON_MODEL_NAME=JETSON_ORIN_NANO
```

```
python3 simple_out.py
```

## 3. Program effect

Use Dupont wire to lead out GPIO.BOARD 12 and GND pins, and use a multimeter to measure the pin voltage change:

**Note: Do not connect incorrectly or cause pin short circuit, otherwise it may cause damage to the motherboard hardware!**

The screenshot shows a Linux desktop with a green network-pattern background. On the left is a vertical dock with icons for Activities, Terminal, Files, and other applications. The top status bar displays "Activities", "Terminal", and the date/time "Jan 10 10:52". A central terminal window titled "jetson@yahboom: ~/jetson-gpio/samples" contains the following text:

```
jetson@yahboom:~$ cd ~/jetson-gpio/samples
jetson@yahboom:~/jetson-gpio/samples$ export JETSON_MODEL_NAME=JETSON_ORIN_NANO
jetson@yahboom:~/jetson-gpio/samples$ python3 simple_out.py
Starting demo now! Press CTRL+C to exit
Outputting 1 to pin 12
Outputting 0 to pin 12
Outputting 1 to pin 12
Outputting 0 to pin 12
Outputting 1 to pin 12
Outputting 0 to pin 12
Outputting 1 to pin 12
Outputting 0 to pin 12
Outputting 1 to pin 12
Outputting 0 to pin 12
Outputting 1 to pin 12
Outputting 0 to pin 12
Outputting 1 to pin 12
Outputting 0 to pin 12
Outputting 1 to pin 12
```

The right side of the desktop features several NVIDIA-related icons and links: "MAXN", "Jetson Support Forums", "L4T-README", "Terminal", "Jetson Zoo", "Jetson Developer Zone", and "NVIDIA Jetson Community Pro...". At the bottom right is a "Home" icon.