

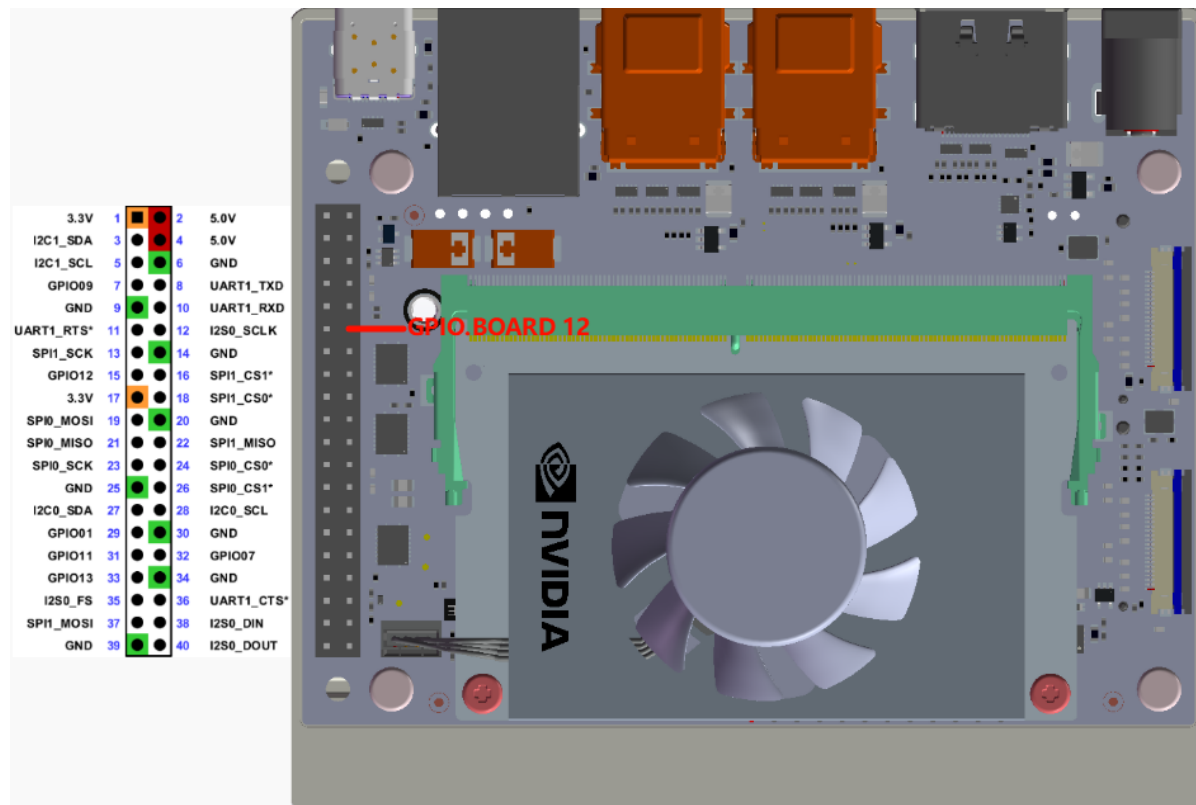
# GPIO output

## 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, as mistakes may cause damage to the motherboard hardware!**

The screenshot shows a Linux desktop environment with a dark theme. On the left side, there is a vertical dock containing icons for 'Activities', 'Terminal', and several application windows. The top of the screen displays the date and time as 'Jan 20 18:53'. The main area of the desktop is occupied by a terminal window titled 'jetson@yahboom: ~/jetson-gpio/samples'. The terminal output shows the execution of a program that outputs a sequence of 1s and 0s to pin 18, alternating every 0.5 seconds. The right side of the desktop features a sidebar with several NVIDIA-related links and logos, including 'MAXIM SUPER', 'NVIDIA Jetson Developer Zone', 'NVIDIA Jetson Support Forums', 'L4T-README', 'Terminal', 'NVIDIA Jetson Community Pro...', and 'NVIDIA Jetson Zoo'. The bottom of the screen shows a 'Home' icon.

Activities Jan 20 18:53

Terminal

jetson@yahboom: ~/jetson-gpio/samples

```
jetson@yahboom:~$ cd ~/jetson-gpio/samples
jetson@yahboom:~/jetson-gpio/samples$ export JETSON_MODEL_NAME=JETSON_ORIN_NX
jetson@yahboom:~/jetson-gpio/samples$ python3 simple_out.py
Starting demo now! Press CTRL+C to exit
Outputting 1 to pin 18
Outputting 0 to pin 18
Outputting 1 to pin 18
Outputting 0 to pin 18
Outputting 1 to pin 18
Outputting 0 to pin 18
Outputting 1 to pin 18
Outputting 0 to pin 18
Outputting 1 to pin 18
Outputting 0 to pin 18
Outputting 1 to pin 18
Outputting 0 to pin 18
Outputting 1 to pin 18
Outputting 0 to pin 18
Outputting 1 to pin 18
Outputting 0 to pin 18
```

MAXIM SUPER

NVIDIA Jetson Developer Zone

NVIDIA Jetson Support Forums

L4T-README

Terminal

NVIDIA Jetson Community Pro...

NVIDIA Jetson Zoo

Home