

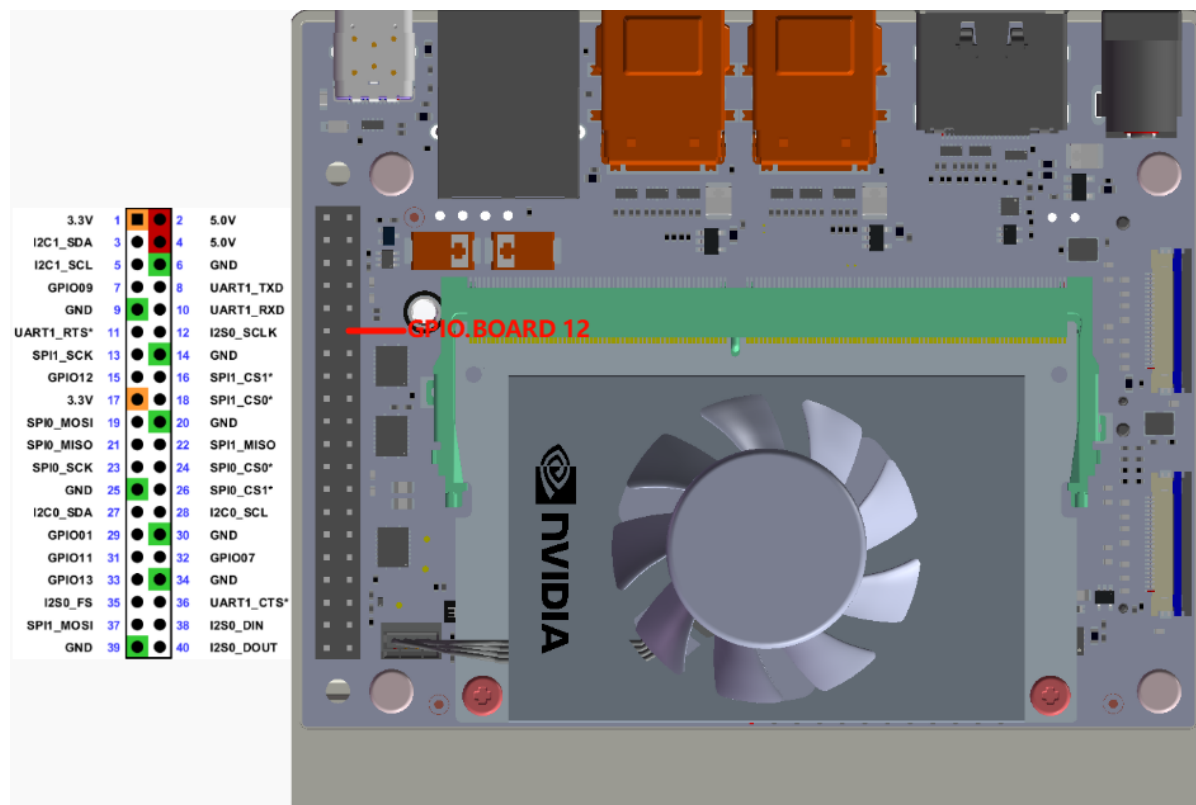
GPIO reading

GPIO reading

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

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

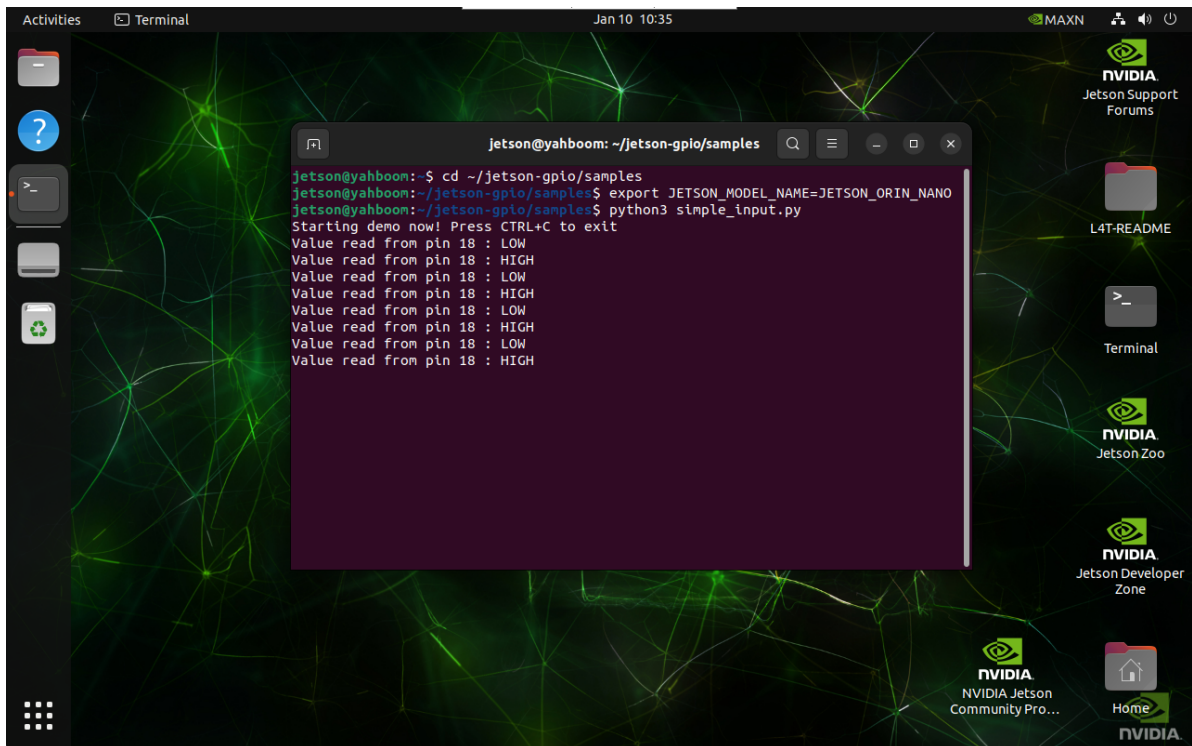
```
export JETSON_MODEL_NAME=JETSON_ORIN_NANO
```

```
python3 simple_input.py
```

3. Program effect

Use Dupont wire to connect GPIO.BOARD 12 pin to GND and 3.3V pin on the motherboard, and test the reading of high and low levels:

Note: Do not connect incorrectly or cause pin short circuit, as mistakes may damage the motherboard hardware!



The screenshot shows a Linux desktop with a dark green background featuring a network-like pattern of glowing green lines. A terminal window is open in the center, displaying the execution of a GPIO demo. The terminal title bar reads 'jetson@yahboom: ~/jetson-gpio/samples'. The commands entered are 'cd ~/jetson-gpio/samples', 'export JETSON_MODEL_NAME=JETSON_ORIN_NANO', and 'python3 simple_input.py'. The output shows a sequence of values read from pin 18, alternating between LOW and HIGH. The desktop includes a left sidebar with icons for Activities, Terminal, and other applications. The top status bar shows the date 'Jan 10 10:35' and system icons. The right sidebar contains several NVIDIA-related icons and links, including 'NVIDIA Jetson Support Forums', 'L4T-README', 'Terminal', 'NVIDIA Jetson Zoo', 'NVIDIA Jetson Developer Zone', and 'NVIDIA Jetson Community Pro...'. A 'Home' icon is also visible at the bottom right.

```
jetson@yahboom: ~/jetson-gpio/samples
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_input.py
Starting demo now! Press CTRL+C to exit
Value read from pin 18 : LOW
Value read from pin 18 : HIGH
Value read from pin 18 : LOW
Value read from pin 18 : HIGH
Value read from pin 18 : LOW
Value read from pin 18 : HIGH
Value read from pin 18 : LOW
Value read from pin 18 : HIGH
```