# **GPIO** library installation

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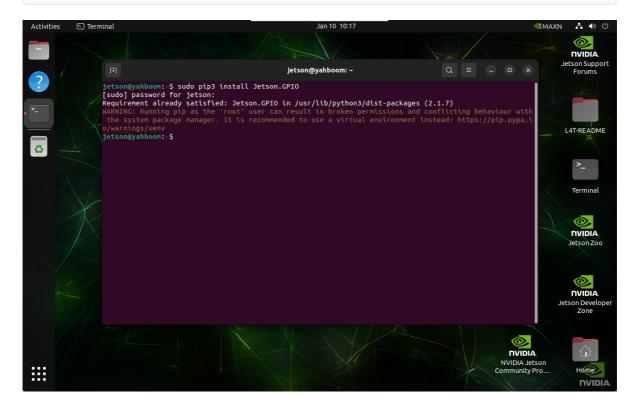
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## 1. Install Jetson.GPIO library

The system installs Jetson.GPIO library by default, so you can skip this step.

#### 1.1. Automatic installation

sudo pip3 install Jetson.GPIO

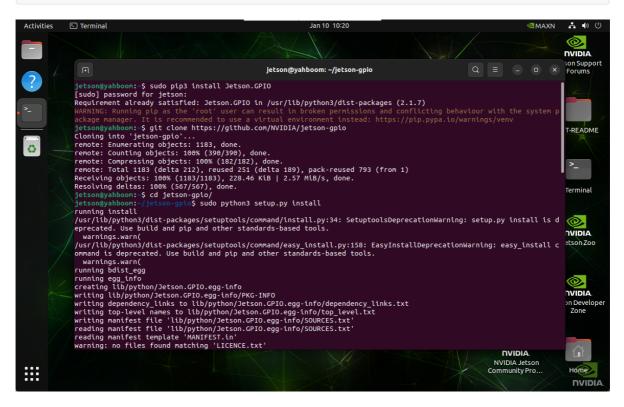


#### 1.2. Manual installation

It is recommended to use the automatic installation method. Manual installation may not be the latest version.

git clone https://github.com/NVIDIA/jetson-gpio

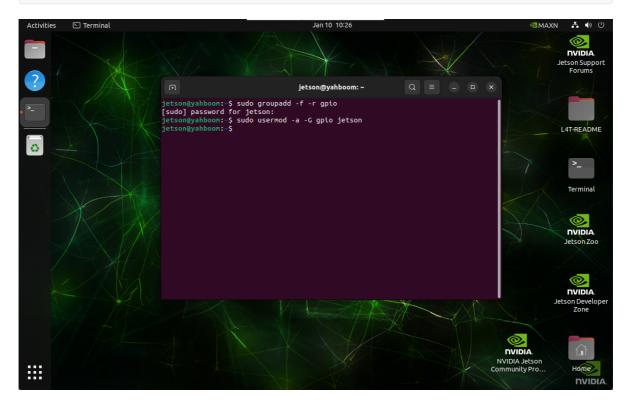
sudo python3 setup.py install



### 2. Set user permissions

Allow the current system user to access and use the Jetson.GPIO library: where jetson is the system user name

sudo groupadd -f -r gpio sudo usermod -a -G gpio jetson



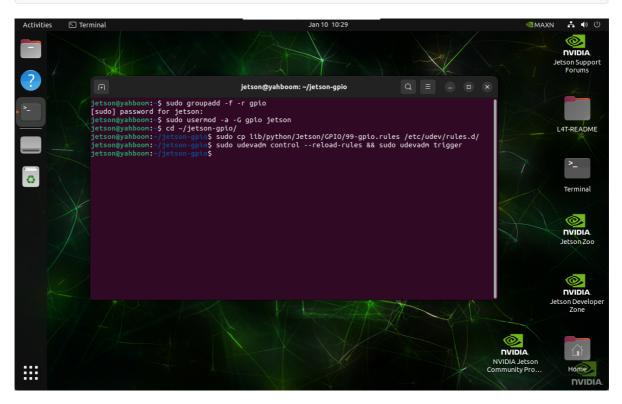
#### 3. Custom rule file

### 3.1. Copy the rule file

```
cd ~/jetson-gpio/
sudo cp lib/python/Jetson/GPIO/99-gpio.rules /etc/udev/rules.d/
```

#### 3.2. Reload udev rules

sudo udevadm control --reload-rules && sudo udevadm trigger



### 4. Set the motherboard model

Currently, Jetpack6.1 does not set the motherboard model in advance. You need to set the motherboard model in the terminal before controlling GPIO each time:

export JETSON\_MODEL\_NAME=JETSON\_ORIN\_NANO

### 5. References

https://github.com/NVIDIA/jetson-gpio