

Orin Nano&NX JetPack5 GPIO??


Orin Nano Orin NX JetPack5 GPIO

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JetPack5 GPIO????

1.??GPIO??????????

1.GPIO????

Sysfs GPIO	Name	Pin	Pin	Name	Sysfs GPIO
	3.3 VDC <i>Power</i>			5.0 VDC <i>Power</i>	
	I2C1_SDA <i>I2C Bus 7</i>			5.0 VDC <i>Power</i>	
	I2C1_SCL <i>I2C Bus 7</i>			GND	
144 gpio492	GPIO9 <i>AUDIO_MCLK</i>			UART1_TX <i>/dev/ttyTHS0</i>	
	GND			UART1_RX <i>/dev/ttyTHS0</i>	
112 gpio460	UART1_RTS			I2S0_SCLK	50 gpio398
122 gpio470	SPI1_SCK			GND	
85 gpio433	GPIO12 <i>Alt: PWM</i>			SPI1_CS1	126 gpio474
	3.3 VDC <i>Power</i>			SPI1_CS0	125 gpio473
135 gpio483	SPI0_MOSI			GND	
134 gpio482	SPI0_MISO			SPI1_MISO	123 gpio471
133 gpio481	SPI0_SCK			SPI0_CS0	136 gpio484
	GND			SPI0_CS1	137 gpio485
	I2C0_SDA <i>I2C Bus 1</i>			I2C0_SCL <i>I2C Bus 1</i>	

2.GPIO????????

7 GPIO09 492 PAC.06
15 GPIO12 433 PN.01
29 GPIO01 453 PQ.05
31 GPIO11 454 PQ.06
32 GPIO07 389 PG.06
33 GPIO13 391 PH.00

2.????????GPIO

1.??GPIO????????

```
31 454 GPIO PQ.06
```

```
1.2 GPIO
```

2.??root????GPIO?

```
sudo bash
```

```
echo 454 > /sys/class/gpio/export
```

2.??GPIO????

```
echo in > /sys/class/gpio/PQ.06/direction
```

```
GPIO 1 0
```

```
cat /sys/class/gpio/PQ.06/value
```

3.??GPIO????

```
echo out > /sys/class/gpio/PQ.06/direction
```

```
GPIO 1 0
```

```
echo 1 > /sys/class/gpio/PQ.06/value
```

2.???????GPIO

1.??GPIO??????????

```
❯ 31❯❯❯❯❯❯ 454❯ GPIO❯❯❯❯ PQ.06❯❯❯❯
```

```
❯❯❯❯❯❯ 1.2 GPIO❯❯❯❯❯❯❯❯❯❯❯❯
```

2.???root?????GPIO?

```
sudo bash
```

```
echo 454 > /sys/class/gpio/export
```

2.??GPIO??????

```
echo in > /sys/class/gpio/PQ.06/direction
```

```
❯❯ GPIO❯❯❯❯❯❯❯❯❯❯❯❯ 1❯❯❯❯❯❯ 0❯❯❯❯❯❯
```

```
cat /sys/class/gpio/PQ.06/value
```

3.??GPIO??????

```
echo out > /sys/class/gpio/PQ.06/direction
```

```
❯❯ GPIO❯❯❯❯❯❯❯❯❯❯❯❯ 1❯❯❯❯❯❯❯❯❯❯❯❯ 0❯❯❯❯❯❯❯❯❯❯❯❯
```

```
echo 1 > /sys/class/gpio/PQ.06/value
```