

Classification	Function	Jetson nano pin BCM number	n comparison table Jetson nano physical pin number	Remarks
OLED	I2C1SCL	1	28	12C address : 0x3C
	I2C1SDA	0	27	
PCA9685	I2C2SCL	3	5	PCA9685:I2C address: 0x40
T RGB Strip	I2C2SDA	2	3	RGB: I2C address: 0x1B
Serial bus servo	UART2 serial 2 TX	14	8	Annex\Hardware\Serial bus servo protocol fil
LED	LED2	24	18	Low level:ON / High level:OFF
	LED3	23	16	Low level:ON / High level:OFF
D. 111.	KEY1	8	24	Low level:Press / High level:No Press
Button	KEY2	7	26	Low level:Press / High level:No Press
Buzzer	FM	6	31	Low level:sound
	P	CA9685 Motor d	rive comparison t	able
	1			
Function				
	IN1A	PCA9685 channle number	PCA9685 physical pin number	Remarks
		PCA9685 channle number	PCA9685 physical pin number 15	
Motor 1	IN1A	PCA9685 channle number 8	PCA9685 physical pin number	Remarks Right motor
Motor 1	IN1A IN1B	PCA9685 channle number 8	PCA9685 physical pin number 15 16	Remarks
Motor 1 Motor 2	IN1A IN1B IN2A	PCA9685 channle number 8 9 10	PCA9685 physical pin number 15 16 17	Remarks Right motor Left motor
Motor 1 Motor 2	IN1A IN1B IN2A IN2B	PCA9685 channle number 8 9 10	PCA9685 physical pin number 15 16 17	Remarks Right motor
Function Motor 1 Motor 2 Motor 3 Onboard RGB	IN1A IN1B IN2A IN2B IN3A	PCA9685 channle number 8 9 10 11 11	PCA9685 physical pin number 15 16 17 18 18 19	Remarks Right motor Left motor
Motor 1 Motor 2 Motor 3	IN1A IN1B IN2A IN2B IN3A IN3B	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks -Right motor -Left motor -up down motor
Motor 1 Motor 2 Motor 3	IN1A IN1B IN2A IN2B IN3A IN3B	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks Right motor Left motor up down motor
Motor 1 Motor 2 Motor 3	IN1A IN1B IN2A IN2B IN3A IN3B	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks -Right motor -Left motor -up down motor
Motor 1 Motor 2 Motor 3 Onboard RGB	IN1A IN1B IN2A IN2B IN3B IN3B PWM5	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks -Right motor -Left motor -up down motor
Motor 1 Motor 2 Motor 3 Onboard RGB	IN1A IN1B IN2A IN2B IN3B IN3B PWM5	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks -Right motor -Left motor -up down motor
Motor 1 Motor 2 Motor 3 Diboard RGB	IN1A IN1B IN2A IN2B IN3B IN3B PWM5	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks -Right motor -Left motor -up down motor
Motor 1 Motor 2 Motor 3 Diboard RGB	IN1A IN1B IN2B IN2B IN3A IN3B PWM5	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks -Right motor -Left motor -up down motor
Motor 1 Motor 2 Motor 3 Diboard RGB	IN1A IN1B IN2A IN2B IN3A IN3B IN3B IN3B IN3B IN3B IN3B IN3B IN3B	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks -Right motor -Left motor -up down motor
Motor 1 Motor 2 Motor 3 Diboard RGB	IN1A IN1B IN2A IN2B IN3A IN3B IN3B IN3B IN3B IN3B IN3B IN3B IN3B	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks -Right motor -Left motor -up down motor
Motor 1 Motor 2 Motor 3 Onboard RGB	IN1A IN1B IN2A IN2B IN3A IN3B IN3B IN3B IN3B IN3B IN3B IN3B IN3B	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks -Right motor -Left motor -up down motor
Motor 1 Motor 3 Diboard RGB July And	IN1A IN1B IN2A IN2B IN3A IN3B IN3B IN3B IN3B IN3B IN3B IN3B IN3B	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks -Right motor -Left motor -up down motor
Motor 1 Motor 2 Motor 3 Onboard RGB	IN1A IN1B IN1B IN2A IN2B IN3A IN3B PWM5 VDD 25 IN3A EXCLUSIVE 25 IN3A IN410 IN5A IN5A IN5A IN5A IN5A IN5A IN5A IN5A	PCA9685 channle number 8 9 10 11 12 13	PCA9685 physical pin number 15 16 17 18 19	Remarks -Right motor -Left motor -up down motor