

classification	Function	Number of SCH	Arduino	STM32	51	PI	wiringPi	BCM	Remarks
Car movement	Left motor advance	AIN2	8	PB9	P2.1	IO20	28	20	
	Left motor back	AIN1	7	PB8	P2.2	IO21	29	21	
	Right motor advance	BIN2	2	PB4	P2.4	IO19	24	19	
	Right motor back	BIN1	4	PB5	P2.3	IO26	25	26	
	Left motor PWM	PWMA	6	PB7	P2.0	IO16	27	16	
Tracking	Right motor PWM	PWMB	5	PB6	P2.5	IO13	23	13	
	Left 1	IN2	A2	PC14	P1.1	IO3	9	3	Arduino version needs jumpers, others don't need jumpers
	Left 2	IN1	A1	PC13	P1.0	IO5	21	5	
	Right 1	IN3	A3	PC15	P1.2	IO4	7	4	
	Right 2	IN4	A4	PB12	P1.3	IO18	1	18	
Infrared avoid	Left	IN7	A3	PA6	P1.6	IO12	26	12	
	Right	IN5	A1	PA4	P1.4	IO17	0	17	
seek-light	Left	IN8	A4	PB3	P1.7	IO7	11	7	Need jumpers
	Right	IN6	A2	PA5	P1.5	IO6	12	10	
Grayscale	Grayscale sensor	GS	A5	PA1	NO	NO	NO	NO	
Button	button	K2	A0	PA0	P2.7	IO8	10	8	
Buzzer	buzzer	FM	A0	PA0	P2.7	IO8	10	8	
Fan	fan	MOTOR	A5	PA1	P0.0	IO2	8	2	
RGB-searchlight	Red	LED_R	11	PB1	P3.2/INT0	IO22	3	22	
	Green	LED_G	10	PB0	P3.3/INT1	IO27	2	27	
	Blue	LED_B	9	PA7	P3.4/T0	IO24	5	24	
PTZ	PTZ	J1	3	PA11	P0.5	IO23	4	23	
Ultrasonic	transmit	SCL_C	13	PA15	P3.7/RD	ID_SC	30	0	
	receive	SDA_C	12	PA12	P3.6/WR	ID_SD	31	1	
Infrared remote	IR	IRN	A5	PA1	P3.5/T1	IO2	8	2	
Voltage detection	Voltage detection	POWERC	A0	PA0	NO	NO	NO	NO	
PS2	MOSI	MOS	A3	PB15	P0.2	IO10	12	10	
	MISO	MIS	A2	PB14	P0.3	IO9	13	9	
	GND	GND	GND	GND	GND	GND	GND	GND	
	VCC	VCC	VCC	VCC	VCC	VCC	VCC	VCC	
	CS	CS	A4	PA8	P0.1	IO25	6	25	
	SCK	SCK	A1	PB13	P0.4	IO11	14	11	
MPU6050	clock	SCL	SCL	PB10	P0.7	NO	NO	NO	
	data	SDA	SDA	PB11	P0.6	NO	NO	NO	
机械手	Servo1	J1	3	PA11	P0.5	IO23	4	23	
	Servo2	J2	A1	PB13	P0.4	IO11	14	11	
	Servo3	J3	A2	PB14	P0.3	IO9	13	9	
	Servo4	J4	A3	PB15	P0.2	IO10	12	10	
	Servo5	J5	A4	PA8	P0.1	IO25	6	25	
	Servo6	J6	A5	PA1	P0.0	IO2	8	2	
24L01	RST	RST	A5	PA1	P0.0	NO	NO	NO	
	SCK	SCK	A1	PB13	P0.4	NO	NO	NO	
	MISI	MISI	A2	PB14	P0.3	NO	NO	NO	
	MOSI	MOSI	A3	PB15	P0.2	NO	NO	NO	
	CS	CS	A4	PA8	P0.1	NO	NO	NO	
CCD	A0	A0	A1	PB13	NO	NO	NO	NO	
	CLK	CLK	A3	PB15	NO	NO	NO	NO	
	SI	SI	A2	PB14	NO	NO	NO	NO	