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| **外设** | **引脚** | **用途** |
| ADC\_IN8 | PB0 | 测量电池电压 |
| TIM3 | 无 | 产生时基、实现mdelay、触发ADC转换 |
| USART1 | TX PA9/RX PA10 | 与电脑上位机通信，打印调试信息 |
| TIM1 | PA11 | TIM1\_CH4输出PWM对电机A进行调速 |
| TIM1 | PA8 | TIM1\_CH1输出PWM对电机B进行调速 |
| GPIO | PB12 PB13 | 控制电机A正转或者反转 |
| GPIO | PB14 PB15 | 控制电机B正转或者反转 |
| GPIO | PC14 | 通过TIM1在PC14输出一个模拟PWM信号控制led亮度 |
| TIM2 | PA0 PA1 | A电机编码器接口 |
| TIM4 | PB6 PB7 | B电机编码器接口 |
| GPIO | PB3 PB4 | mpu6050的SDA和SCL |
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