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| --- | --- | --- | --- | --- |
| 模块 | 引脚 | 用途(外设) | 模块 | 引脚 |
| 步进电机 | a8 | pwm (tim1c1) | 激光笔 | b3 |
| 步进电机 | a9 | pwm (tim1c9) | 按键 | b8 b9 |
| 步进电机 | b12 b13 | en | led | a6 a7 |
| 步进电机 | b14 b15 | dir | 蜂鸣器 | b4 |
| K210 | a3 | rx2(接k210的tx) | 超声波 | a4 |
| K210 | a2 | tx a5 |  |  |
| OLED | b10 | scl | 预留蓝牙 | b7 rx1(接蓝牙tx) |
| OLED | b11 | sda | 预留蓝牙 | b6 |
| adc | b1 | 电压检测(adc9) | 其他预留 | b5 b7 a1 |