## 以下是所有引脚占用情况，如需更改，请及时说明

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 超声波 | PC0 | PA6 | PC1 | PA7 | PC2 | PB0 | PC3 | PB1 | PC4 | PB8 |
| TRIG1 | ECHO1 | TRIG2 | ECHO2 | TRIG3 | ECHO3 | TRIG4 | ECHO4 | TRIG5 | ECHO5 |
| 5v | 5v | 5v | 5v | 5v | Gnd | Gnd | Gnd | Gnd | Gnd |
| Vcc | Vcc | Vcc | Vcc | Vcc | Gnd | Gnd | Gnd | Gnd | Gnd |

|  |  |  |
| --- | --- | --- |
| 通讯 | PA9 | PA10 |
| 方位按键 | **PA0** |  |
| 指南模块 | **PB6** | **PB7** |
| gps | **PA2** | **PA3** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| GPRS数据传输 | PC10 | PC11 |  |  |  |
| URX | UTX |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 所有  引脚  占用  情况 | PA | 0 | 1 | 2 | 3 |  |  | 6 | 7 |  | 9 | 10 |  |  |
| PB | 0 | 1 |  |  |  |  | 6 | 7 | 8 |  | 10 | 11 |  |
| PC | 0 | 1 | 2 | 3 | 4 | 5 |  |  |  |  | 10 | 11 |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## 以下是所有定时器占用情况，如需更改，请及时说明

(✔:已占用)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TIM1 | TIM2 | TIM3 | TIM4 | TIM5 | TIM6 | TIM7 | TIM8 | 滴答 |
|  | ✔ | ✔ | ✔ | ✔ |  |  |  | ✔ |

## 以下是所有串口占用情况，如需更改，请及时说明

(✔:已占用)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Usart1 | Usart2 | Usart3 | Uart1 | Uart4 | Uart5 |
| ✔ | ✔ | ✔ |  | ✔ |  |

## 以下为中断优先级设置情况，如需更改，请及时说明（优先级分组统一使用NVIC\_PriorityGroup\_2）

|  |  |
| --- | --- |
| 中断描述 | 优先级 |
| 蓝牙模块，用于传输数据 | 0 |
| 定时器3，测距 | 0,2 |
| 定时器4，测距 | 0,2 |
| 定时器5，触发测距 | 2,2 |
| 定时器2，用于控制pwm | 0,2 |