## 以下是所有引脚占用情况，如需更改，请及时说明

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 超声波 | PA4 | PA6 | PA5 | PA7 | 5v | 5V |  |  |  |
| TRIG1 | ECHO1 | TRIG2 | ECHO2 | **VCC** | **VCC** |  |  |  |
| 按键 | PA0 | PB1 | PB2 | PB0 | PA1 | 5V | GND |  |  |
| Key1 | Key2 | Key3 | Key4 | Key5 | VCC | **GND** |  |  |
| 蓝牙 | PA9 | PA10 | GND | 5V |  |  |  |  |  |
| RX | TX | GND | VCC |  |  |  |  |  |
| 三轴 | PB6 | PB7 | A11 | GND | GND | 5V |  |  |  |
| SCL | SDA | INT | AD0 | GND | VCC |  |  |  |
| 语言模块 | PB11 | PB10 | GND | 5V |  |  |  |  |  |
| TX | RX | GND | VCC | SPK1 | SPK2 |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 所有  引脚  占用  情况 | PA | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |  | 9 | 10 | 11 |  |  |  |  |
| PB | 0 | 1 | 2 |  |  |  | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| PC |  |  |  |  |  |  | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |  |  |
| PD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## 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 |
|  | ✔ | ✔ |  |  | ✔ |  |  | ✔ |

## 以下是所有外部占用情况，如需更改，请及时说明

(✔:已占用)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Exti0 | Exti1 | Exti2 | Exti3 | Exti4 | Exti9\_5 | Exti15\_10 |
| ✔ | ✔ | ✔ | ✔ | ✔ |  |  |

## 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 |
| 定时器6中断，用于语音模块计时 | 0 |
| 蓝牙模块，用于传输数据 | 1 |
| 按键外部中断，安全键key1 | 0,1 |
| 定时器2，触发测距 | 1,3 |
| 定时器5，测距 | 0,2 |