TM4C123H6PM管脚分配

1.core board

|  |  |  |
| --- | --- | --- |
| 编号 | 名称 | 功能 |
| PC0 | TCK/SWCLK | JTAG |
| PC1 | TMS/SWDIO | JTAG |
| PC2 | TDI | JTAG |
| PC3 | TDO/SWO | JTAG |
| PA0 | U0RX | 串口0输入 |
| PA1 | U0TX | 串口0输出 |
| PF0 | GPIO | 输入，SWITCH2 |
| PF1 | GPIO | 输出，LED\_R |
| PF2 | GPIO | 输出，LED\_B |
| PF3 | GPIO | 输出，LED\_G |
| PF4 | GPIO | 输入，SWITCH1 |

2.module8 USB

|  |  |  |
| --- | --- | --- |
| 编号 | 名称 | 功能 |
| PB0 | USB0ID | USB |
| PB1 | USB0VBUS | USB |
| PD4 | USB0DM | USB |
| PD5 | USB0DP | USB |
| PC6 | USB0EPEN | USB OTG |
| PC7 | USB0PFLT | USB OTG |

3.module10 Motor

|  |  |  |
| --- | --- | --- |
| 编号 | 名称 | 功能 |
| PD0 | GPIO | 步进电机输入1 |
| PD1 | GPIO | 步进电机输入2 |
| PD2 | GPIO | 步进电机输入3 |
| PD3 | GPIO | 步进电机输入4 |
| PB6 | M0PWM0 | 直流电机PWM输入1 |
| PB7 | M0PWM1 | 直流电机PWM输入2 |

4.module11 TCPIP

|  |  |  |
| --- | --- | --- |
| 编号 | 名称 | 功能 |
| PA2 | SSI0CLK | SPI |
| PA3 | SSI0FSS | SPI |
| PA4 | SSI0RX | SPI |
| PA5 | SSI0TX | SPI |
| PE1 | ENC\_RST | ENC28J60复位 |
| PB4 | ENC\_CS | ENC28J60使能 |
| PB2 | GPIO | LED0 |
| PE0 | GPIO | LED1 |

5.module12 CAN

|  |  |  |
| --- | --- | --- |
| 编号 | 名称 | 功能 |
| PE4 | CAN0RX | CAN输入 |
| PE5 | CAN0TX | CAN输出 |
| PB3 | GPIO | 输出，LED\_TX |
| PD6 | GPIO | 输入，LED\_RX |

6.module13 temperature sensor

|  |  |  |
| --- | --- | --- |
| 编号 | 名称 | 功能 |
| PA6 | GPIO | DS19B20数据线 |
| PE3 | AIN0 | PT100模拟信号输入 |
| PB5 | GPIO | 发热体使能 |

7.module14 Mobile

|  |  |  |
| --- | --- | --- |
| 编号 | 名称 | 功能 |
| PE2 | GPIO | 输入，IGBT点燃 |
| PC4 | U1RX | 串口1出入 |
| PC5 | U1TX | 串口1输出 |
| PA7 | GPIO | 输出，来电信号 |