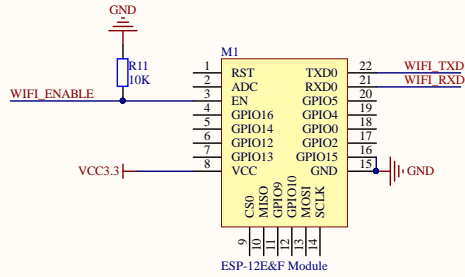
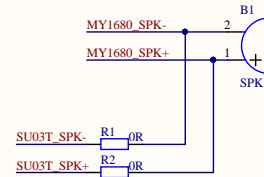
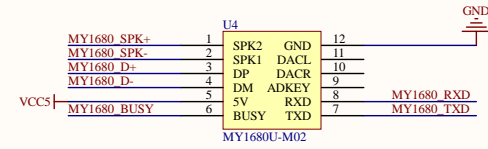
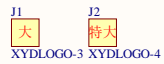


2.8寸TFTLCD显示屏

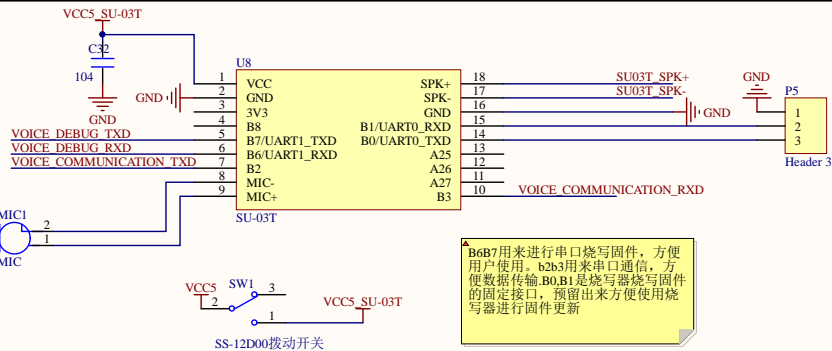
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Size	Number		Revision
A4			
Date:	2022/8/15	Sheet	of
File:	D:\Work\..\2.8_tftlcd_spi.SchDoc	Drawn By:	



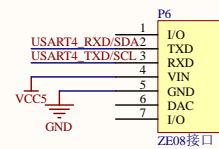
WIFI模块



语音播报模块

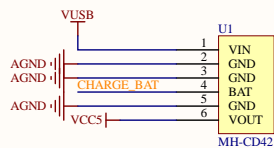


语音识别模块

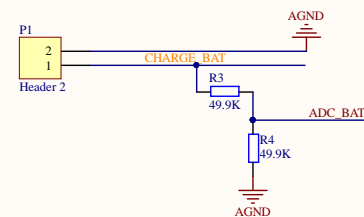


甲醛传感器接口

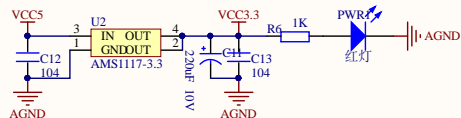
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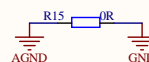
锂电池充放电管理模块



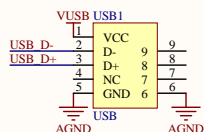
电池接口&电池电压检测



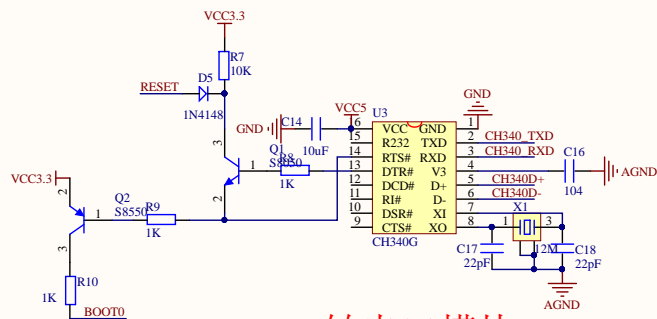
5V转3.3V电源模块



单点接地

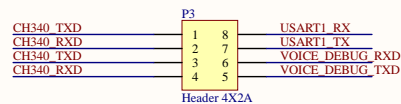
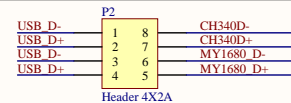


USB接口



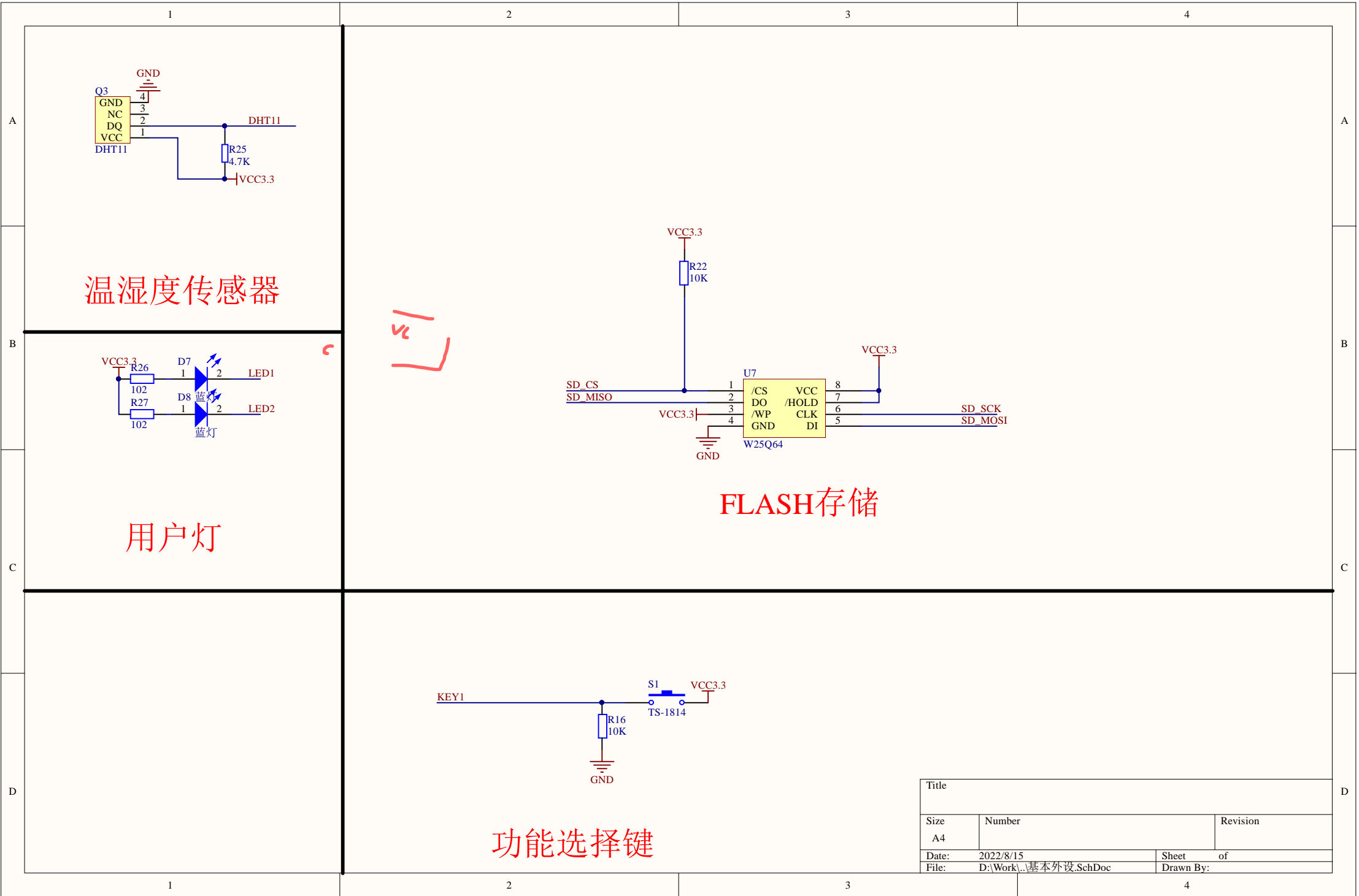
USB转串口模块

USB接口功能选择。USB接口可以接入CH340芯片，实现USB转串口功能，从而实现主控芯片的程序下载和语音识别模块的固件更新。也可以接入语音播报模块，将语音播报模块抽象为优盘，从而实现播报音频文件的更新。



CH340功能选择，可以实现主控芯片的程序下载，也可以语音识别模块的固件更新。

Title		
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A3		
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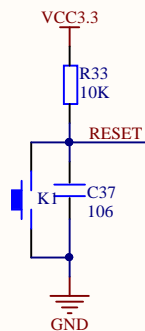


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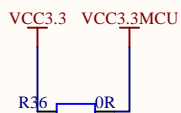
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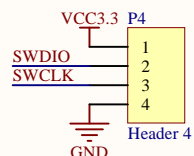
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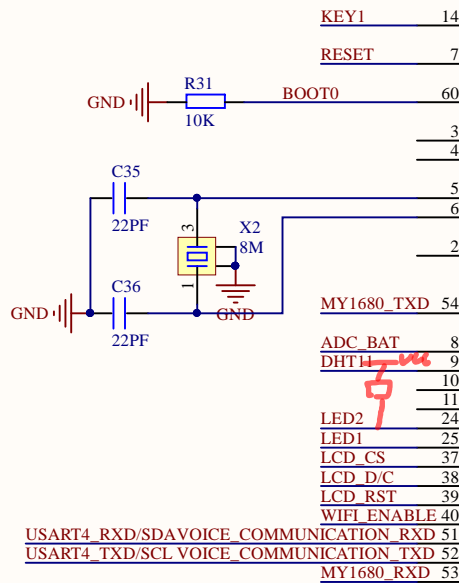
复位



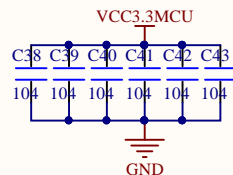
电源隔离



SWD下载

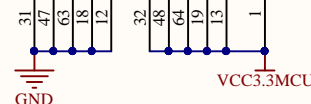


USART4_RXD/SDA VOICE COMMUNICATION_RXD 51
USART4_TXD/SCL VOICE COMMUNICATION_TXD 52
MY1680_RXD 53



U9

PA0-WKUP/USART2_CTS/ ADC123_IN0 /TIM2_CH1_ETR /TIM5_CH1/TIM8_ETR	PA15/JTDI/SPI3_NSS/I2S3_WS
NRST	PA14/JTCK/SWCLK
BOOT0	PA13/JTMS/SWDIO
PC14-OSC32_IN	PA12/USART1_RTS/USBDP/CAN_TX/TIM1_ETR
PC15-OSC32_OUT	PA11/USART1_CTS/USBDM/CAN_RX/TIM1_CH4
PD0/OSC_IN/FSMC_D2	PA10/USART1_RX/TIM1_CH3
PD1/OSC_OUT/FSMC_D3	PA9/USART1_TX/TIM1_CH2
PC13-TAMPER-RTC	PA8/USART1_CLK/TIM1_CH1/MCO
PD2/TIM3_ETR/UART5_RX/SDIO_CMD	PA7/SPI1_MOSI/ TIM8_CH1N/ADC12_IN7/TIM3_CH2
PC0/ADC123_IN10	PA6/SPI1_MISO/TIM8_BKIN/ADC12_IN6/TIM3_CH1
PC1/ADC123_IN11	PA5/SPI1_SCK/DAC_OUT2/ADC12_IN5
PC2/ADC123_IN12	PA4/SPI1_NSS/USART2_CLK/DAC_OUT1/ADC12_IN4
PC3/ADC123_IN13	PA3/USART2_RX/TIM5_CH4/ADC123_IN3/TIM2_CH4
PC4/ADC12_IN14	PA2/USART2_TX/TIM5_CH3/ADC123_IN2/ TIM2_CH3
PC5/ADC12_IN15	PA1/USART2_RTS/ ADC123_IN1/ TIM5_CH2/TIM2_CH2
PC6/I2S2_MCK/TIM8_CH1/SDIO_D6	
PC7/I2S3_MCK/TIM8_CH2/SDIO_D7	
PC8/TIM8_CH3/SDIO_D0	
PC9/TIM8_CH4/SDIO_D1	
PC10/UART4_TX/SDIO_D2	
PC11/UART4_RX/SDIO_D3	
PC12/UART5_TX/SDIO_CLK	
	PB0/ADC12_IN8/TIM3_CH3/TIM8_CH2N
	PB1/ADC12_IN9/TIM3_CH4/TIM8_CH3N
	PB2/BOOT1
	PB3/JTDO/SPI3_SCK / I2S3_CLK
	PB4/NJTRST/SPI3_MISO
	PB5/I2C1_SMBA/ SPI3_MOSI/I2S3_SD
	PB6/I2C1_SCL/ TIM4_CH1
	PB7/I2C1_SDA/FSMC_NADV/TIM4_CH2
	PB8/TIM4_CH3/SDIO_D4
	PB9/TIM4_CH4/SDIO_D5
	PB10/I2C2_SCL/USART3_TX
	PB11/I2C2_SDA/USART3_RX
	PB12/SPI2_NSS/I2S2_WS/I2C2_SMBA/USART3_CLK/TIM1_BKIN
	PB13/SPI2_SCK/I2S2_CLK/USART3_CTS/TIM1_CH1N
	PB14/SPI2_MISO/TIM1_CH2N/USART3_RTS
	PB15/SPI2_MOSI/I2S2_SD/TIM1_CH3N



STM32F103RCT6

主控模块