

MCU_IO

WKUP	PA0	10	U1A	PA0/WKUP/USART2_CTS/ADC12_IN0/TIM2_CH1_ETR
	PA1	11		PA1/USART2_RTS/ADC12_IN1/TIM2_CH2
	PA2	12		PA2/USART2_TX/ADC12_IN2/TIM2_CH3
	PA3	13		PA3/USART2_RX/ADC12_IN3/TIM2_CH4
	PA4	14		PA4/SPI1_NSS/USART2_CK/ADC12_IN4
	PA5	15		PA5/SPI1_SCK/ADC12_IN5
	PA6	16		PA6/SPI1_MISO/ADC12_IN6/TIM3_CH1
	PA7	17		PA7/SPI1_MOSI/ADC12_IN7/TIM3_CH2
LED	PA8	29		PA8/USART1_CK/TIM1_CH1/MCO
	PA9	30		PA9/USART1_TX/TIM1_CH2
	PA10	31		PA10/USART1_RX/TIM1_CH3
USB_D-	PA11	32		PA11/USART1_CTS/CANRX/USBDM/TIM1_CH4
USB_D+	PA12	33		PA12/USART1_RTS/CANTX/USBDP/TIM1_ETR
SWDIO	PA13	34		PA13/JTMS/SWDIO
SWDCLK	PA14	37		PA14/JTCK/SWCLK
	PA15	38		PA15/JTDI
	PB0	18		PB0/ADC12_IN8/TIM3_CH3
	PB1	19		PB1/ADC12_IN9/TIM3_CH4
BOOT1	PB2	20		PB2/BOOT1
	PB3	39		PB3/JTDO
	PB4	40		PB4/JNTRST
	PB5	41		PB5/I2C1_SMBAL
	PB6	42		PB6/I2C1_SCL/TIM4_CH1
	PB7	43		PB7/I2C1_SDA/TIM4_CH2
VCAPI	PB8	45		PB8/TIM4_CH3
	PB9	46		PB9/TIM4_CH4
VCAP2	PB10	21		PB10/I2C2_SCL/USART3_TX
	PB11	22		PB11/I2C2_SDA/USART3_RX
	PB12	25		PB12/SPI2_NSS/I2C2_SMBAL/USART3_CK/TIM1_BKIN
	PB13	26		PB13/SPI2_SCK/USART3_CTS/TIM1_CH1N
	PB14	27		PB14/SPI2_MISO/USART3_RTS/TIM1_CH2N
	PB15	28		PB15/SPI2_MOSI/TIM1_CH3N

STM32F103C8T6

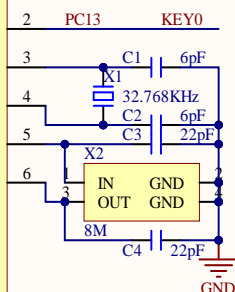
PC13-TAMPER-RTC

PC14-OSC32_IN

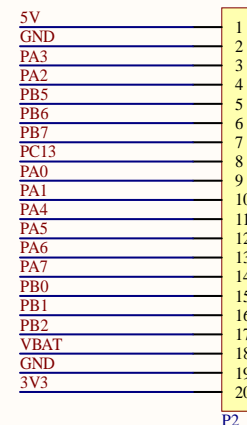
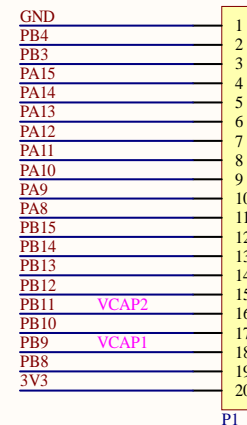
PC15-OSC32_OUT

PD0-OSC_IN

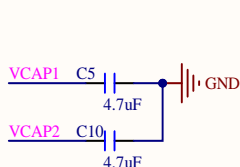
PD1-OSC_OUT



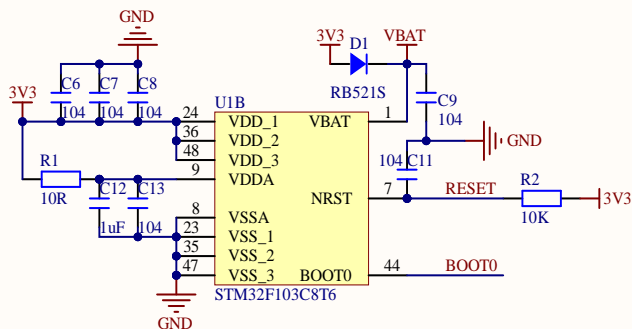
IO




MCU_POWER

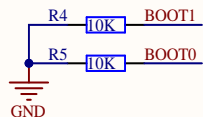


仅当使用 STM32H503 时
需要焊接这两个电容
此时：PB9和PB11不再作普通 IO使用！

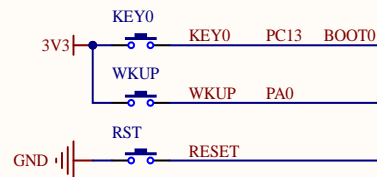


Title: DNM48Z V1.1.PrjPcb		 正点原子
Author: ALIENTEK	Size: A4	
Date: 2023/6/7	File: M48_CPU.SchDoc	
Revision: V1.1	Version:	

BOOT

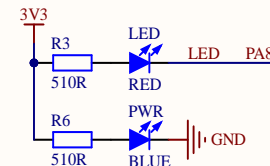


KEY

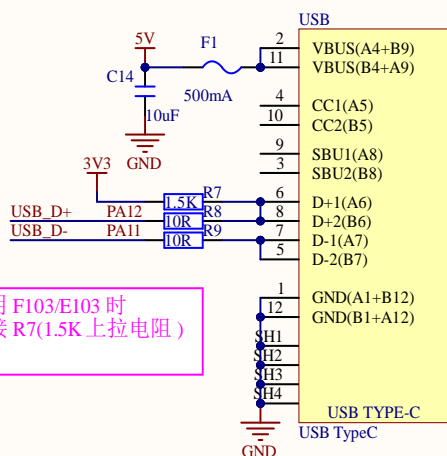


进入默认 BootLoader 模式方法：
先按住 KEY0 (BOOT0=1) 并保持不放
然后再按板子的复位键，再松开复位键
此时， MCU 将进入 Bootloader 模式

LED

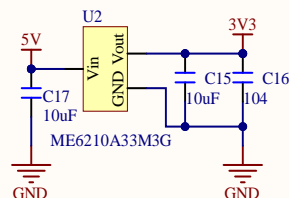


USB

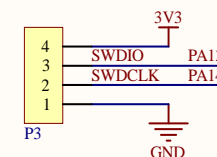


仅当使用 F103/E103 时
需要焊接 R7(1.5K 上拉电阻)

LDO



SWD



Title:
DNM48Z V1.1.PrjPcb
Author:
ALIENTEK
Date:
2023/6/7
Revision:
V1.1

Size:
A4
File:
M48_DEVICE.SchDoc
Version:



