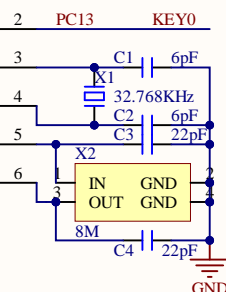


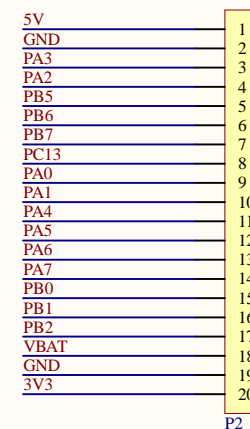
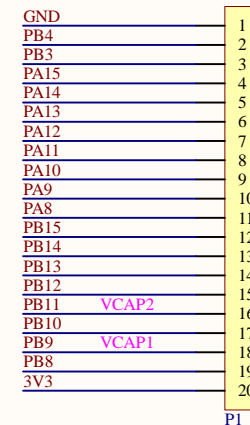
## MCU\_IO

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
VCAP1	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

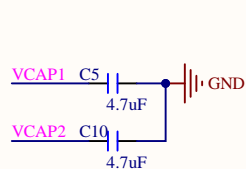
STM32F103C8T6



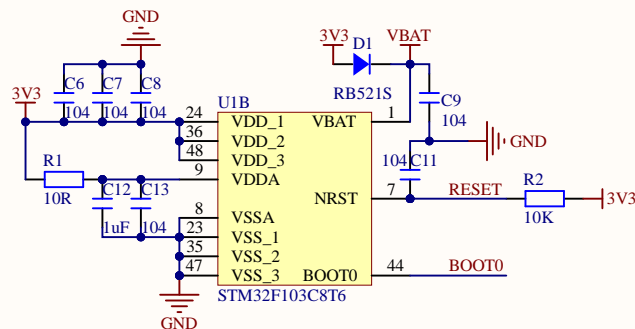
## IO



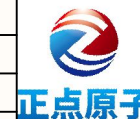
## MCU\_POWER



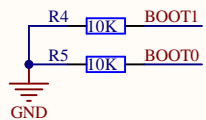
Only when using STM32H503 is it necessary to solder these two capacitors. At this time, PB9 and PB11 are no longer used as ordinary IO!



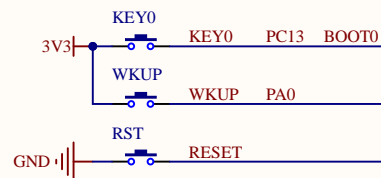
Title:	DNM48Z V1.1.PriPcb
Author:	ALIENTEK
Date:	2024/4/7
Revision:	V1.1
Size:	A4
File:	M48_CPU.SchDoc
Version:	V1.1



# BOOT

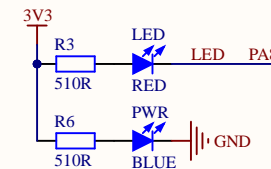


## KEY

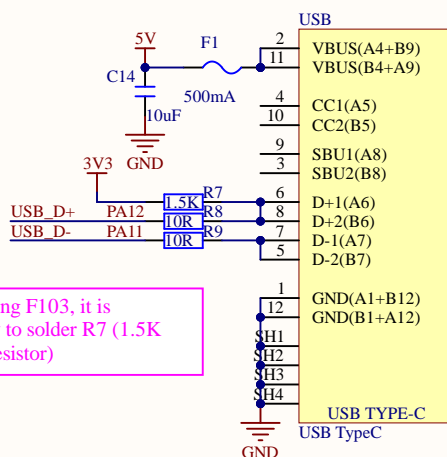


Method to enter the default BootLoader mode:  
Firstly, press and hold KEY0 (BOOT0 = 1)  
without releasing it. Then, press the reset button  
on the board and release it. At this point, the

## LED

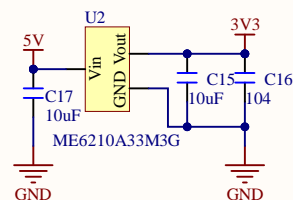


## USB

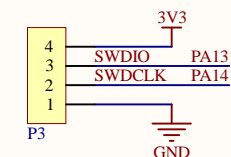


When using F103, it is necessary to solder R7 (1.5K pull-up resistor)

## LDO



## SWD



Title: DNM48Z V1.1.PriPcb	
Author: ALIENTEK	Size: A4
Date: 2024/4/7	File: M48_DEVICE.SchDoc
Revision: V1.1	Version: V1.1

