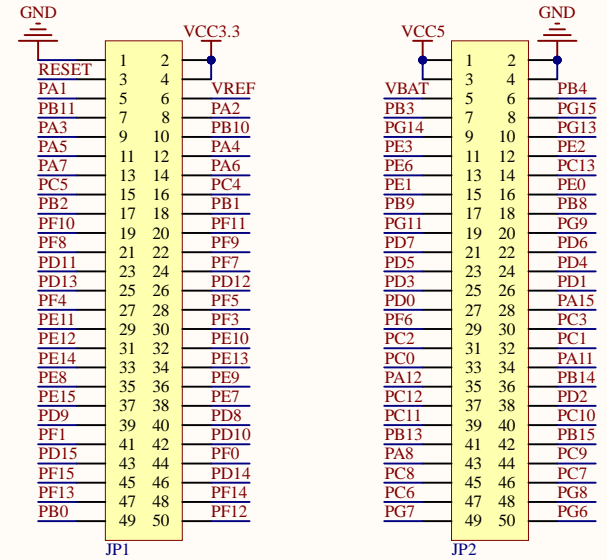


## MCU\_ABCD

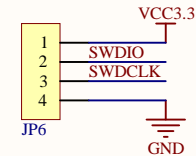
U1A	
WK_UP	PA0 34
	PA1 35
	PA2 36
	PA3 37
	PA4 40
	PA5 41
	PA6 42
	PA7 43
	PA8 100
USART1_TX	PA9 101
USART1_RX	PA10102
USB_D-	PA11103
USB_D+	PA12104
SWDIO	PA13105
SWDCLK	PA14109
	PA15110
LCD_BL	PB0 46
T_SCK	PB1 47
T_MISO	PB2 48
	PB3 133
	PB4 134
	PB5 135
LED0	PB6 136
IIC_SCL	PB7 137
IIC_SDA	PB8 139
	PB9 140
	PB10 69
	PB11 70
F_CS	PB12 73
SPI2_SCK	PB13 74
SPI2_MISO	PB14 75
SPI2_MOSI	PB15 76
	PC0 26
	PC1 27
	PC2 28
	PC3 29
	PC4 44
	PC5 45
	PC6 96
	PC7 97
SDIO_D0	PC8 98
SDIO_D1	PC9 99
SDIO_D2	PC10111
SDIO_D3	PC11112
SDIO_SCK	PC12113
	PC13 7
	PC14-OSC32_IN
	PC15-OSC32_OUT
FSMC_D2	PD0 114
FSMC_D3	PD1 115
SDIO_CMD	PD2 116
	PD3 117
FSMC_NOE	PD4 118
FSMC_NWE	PD5 119
	PD6 122
	PD7 123
FSMC_D13	PD8 77
FSMC_D14	PD9 78
FSMC_D15	PD10 79
FSMC_A16	PD11 80
FSMC_A17	PD12 81
FSMC_A18	PD13 82
FSMC_D0	PD14 85
FSMC_D1	PD15 86

STM32F103ZET6

## IO



## SWD



Title: M144Z-M3.PrjPCB	
Author: ALIENTEK	Size: A4
Date: 2024/5/15	File: CORE_ABCD.SchDoc
Revision: V1.0	Version: V1.0



## MCU\_EFG

FSMC_NBL0	PE0	141
FSMC_NBL1	PE1	142
	PE2	1
	PE3	2
KEY0	PE4	3
LED1	PE5	4
	PE6	5
FSMC_D4	PE7	58
FSMC_D5	PE8	59
FSMC_D6	PE9	60
FSMC_D7	PE10	63
FSMC_D8	PE11	64
FSMC_D9	PE12	65
FSMC_D10	PE13	66
FSMC_D11	PE14	67
FSMC_D12	PE15	68

FSMC_A0	PF0	10
FSMC_A1	PF1	11
FSMC_A2	PF2	12
FSMC_A3	PF3	13
FSMC_A4	PF4	14
FSMC_A5	PF5	15
	PF6	18
	PF7	19
	PF8	20
T_MOSI	PF9	21
T_PEN	PF10	22
T_CS	PF11	49
FSMC_A6	PF12	50
FSMC_A7	PF13	53
FSMC_A8	PF14	54
FSMC_A9	PF15	55

FSMC_A10	PG0	56
FSMC_A11	PG1	57
FSMC_A12	PG2	87
FSMC_A13	PG3	88
FSMC_A14	PG4	89
FSMC_A15	PG5	90
	PG6	91
	PG7	92
	PG8	93
	PG9	124
FSMC_NE3	PG10	125
	PG11	126
FSMC_NE4	PG12	127
	PG13	128
	PG14	129
	PG15	132

U1B

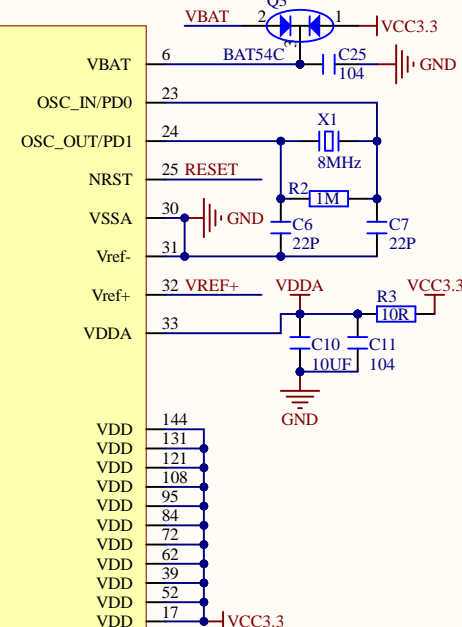
PE0/TMR4\_ETR/SMC\_NBL0  
PE1/SMC\_NBL1  
PE2/TRACED0/SMC\_A23  
PE3/TRACED0/SMC\_A19/DMC\_DQ4  
PE4/TRACED1/SMC\_A20  
PE5/TRACED2/SMC\_A21/DMC\_DQ5  
PE6/TRACED3/SMC\_A22/DMC\_DQ6  
PE7/SMC\_D4/TMR1\_ETR  
PE8/SMC\_D5/DMC\_A4/TMR1\_CH1N  
PE9/SMC\_D6/DMC\_A5/TMR1\_CH1  
PE10/SMC\_D7/DMC\_A6/TMR1\_CH2N  
PE11/SMC\_D8/DMC\_A7/TMR1\_CH2  
PE12/SMC\_D9/DMC\_A8/TMR1\_CH3N  
PE13/SMC\_D10/DMC\_A9/TMR1\_CH3  
PE14/SMC\_D11/TMR1\_CH4  
PE15/SMC\_D12/DMC\_CK/TMR1\_BKIN

PF0/SMC\_A0/DMC\_DQ7  
PF1/SMC\_A1  
PF2/SMC\_A2/DMC\_CS  
PF3/SMC\_A3  
PF4/SMC\_A4/DMC\_RAS  
PF5/SMC\_A5/DMC\_CAS  
PF6/ADC3\_IN4/SMC\_NIORD/DMC\_WE  
PF7/ADC3\_IN5/SMC\_NREG  
PF8/ADC3\_IN6/SMC\_NIOWR  
PF9/ADC3\_IN7/SMC\_CD  
PF10/ADC3\_IN8/SMC\_INTR/DMC\_LDQM  
PF11/SMC\_NIOS16/DMC\_BA  
PF12/SMC\_A6/DMC\_A10  
PF13/SMC\_A7/DMC\_A0  
PF14/SMC\_A8/DMC\_A1  
PF15/SMC\_A9/DMC\_A2

PG0/SMC\_A10/DMC\_A3  
PG1/SMC\_A11  
PG2/SMC\_A12  
PG3/SMC\_A13  
PG4/SMC\_A14  
PG5/SMC\_A15  
PG6/SMC\_INT2  
PG7/SMC\_INT3  
PG8/DMC\_CLK  
PG9/SMC\_NE2/SMC\_NCE3/DMC\_DQ15  
PG10/SMC\_NCE4\_1/SMC\_NE3  
PG11/SMC\_NCE4\_2  
PG12/SMC\_NE4/DMC\_DQ0  
PG13/SMC\_A24/DMC\_DQ1  
PG14/SMC\_A25/DMC\_DQ2  
PG15

STM32F103ZET6

VBAT is connected to PIN5 of JP2.



VBAT

OSC\_IN/PD0

OSC\_OUT/PD1

NRST

VSSA

Vref-

Vref+

VDDA

VDD

VDD

VDD

VDD

VDD

VDD

VDD

VDD

VSS

VSS

VSS

VSS

VSS

VSS

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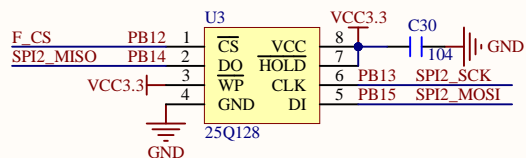
VSS

VSS

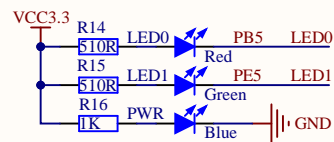
VSS

VSS

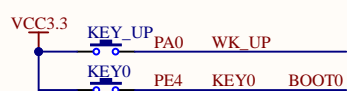
## FLASH



## LED



## KEY

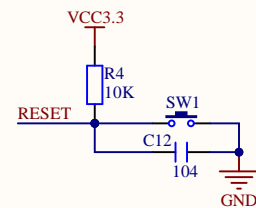


BOOT0 and KEY0 (PE4) share the KEY0 button.

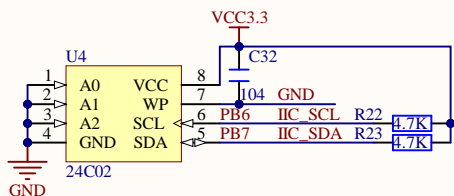
Pressing KEY0 can pull BOOT0 high, facilitating entry into BootLoader mode!

BOOT0 only functions during the power-up phase! It does not affect the normal use of PE4 after power-up.

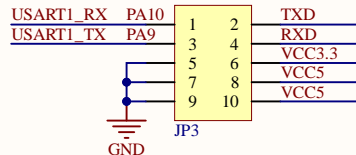
## RESET



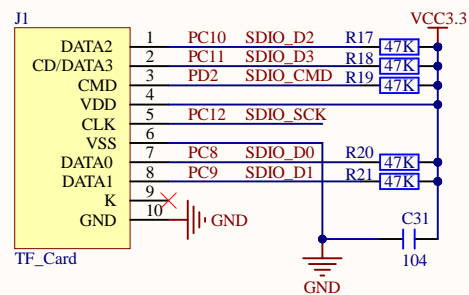
## EEPROM



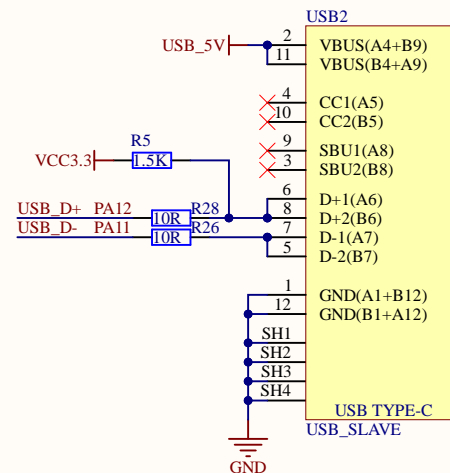
## USB\_UART & VOUT



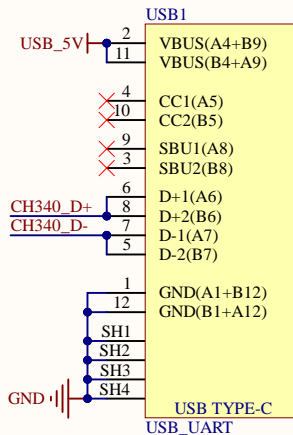
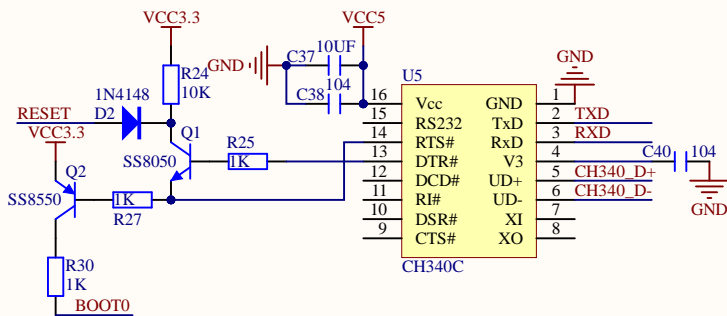
## TF CARD



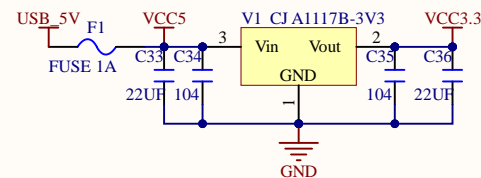
## USB SLAVE



## USB UART & USB POWER



## LDO



Title:

M144Z-M3.PrjPCB

Author:

ALIENTEK

Date:

2024/5/15

Revision:

V1.0

Size:

A4

File:

DEVICE.SchDoc

Version:

V1.0



82.80mm

51.24mm

# M144Z-M3 Core Board

