

STM32WB5MM Discovery Kit

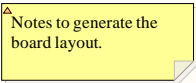
MB1292

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- Sheet 4: MEMS sensors
- Sheet 5: LEDs, touchkey and push-buttons
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- Sheet 7: Power management
- Sheet 8: ST-Link V2-1

Legend

- General comment such as function title, configuration, ...
- Text to be added to silkscreen.
- Warning text.

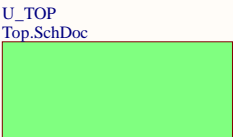


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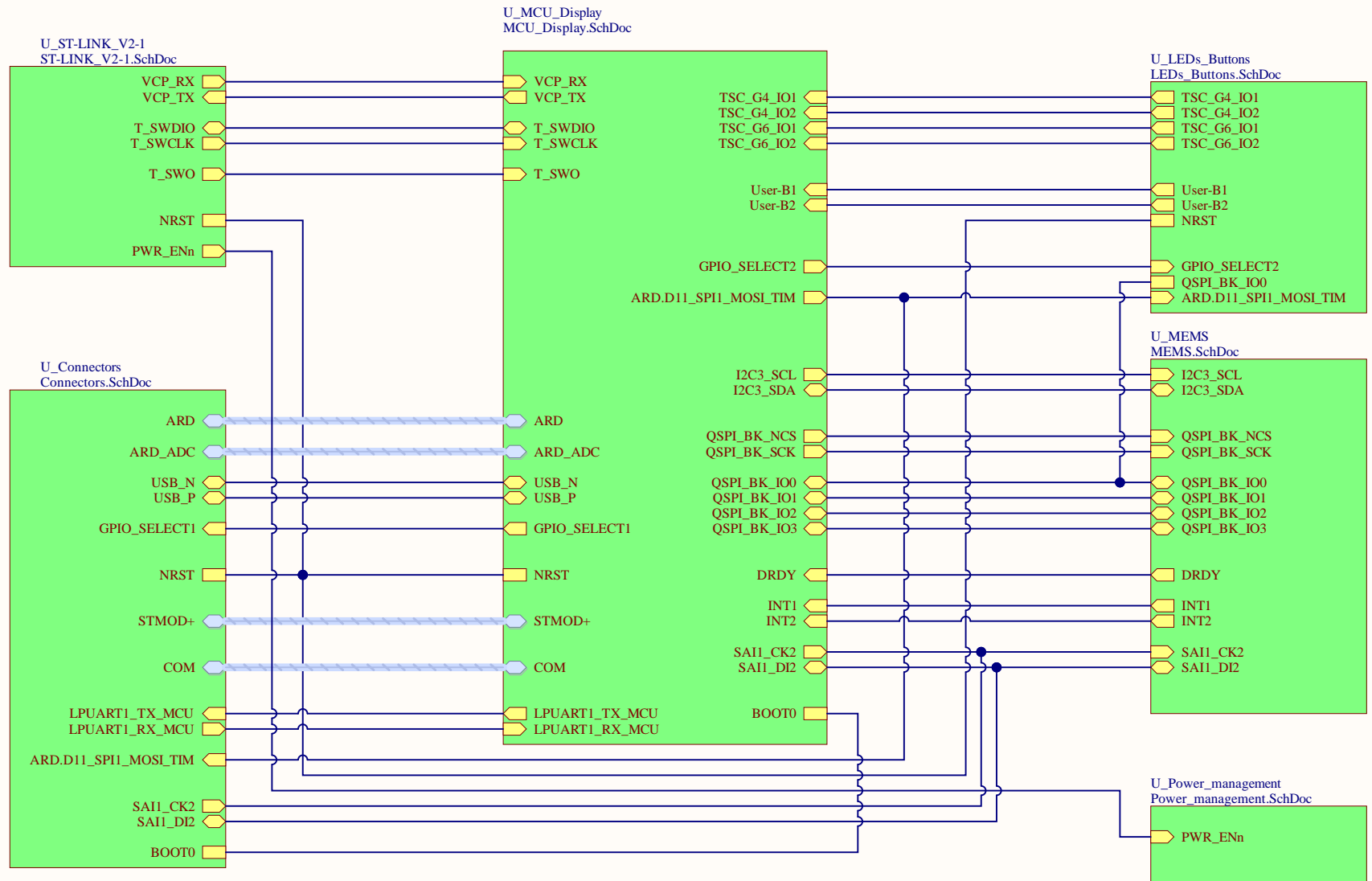


HW6
STICKER PRODUCT
Sticker product

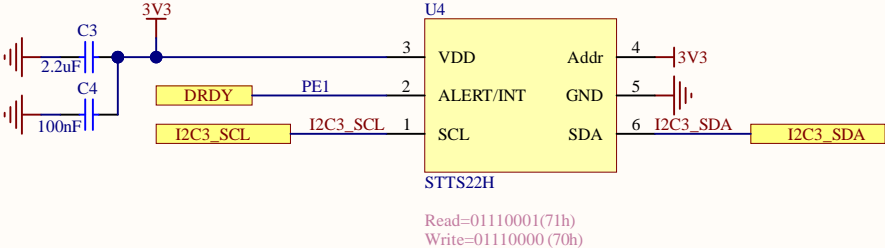
HW7
STICKER BOARD
Sticker board

Title: Project overview		
Project: STM32WB5MM Discovery Kit		
Variant: WB5MM		
Revision: D-01		Reference: MB1292
Size: A4	Date: 17-June-2022	Sheet: 1 of 8

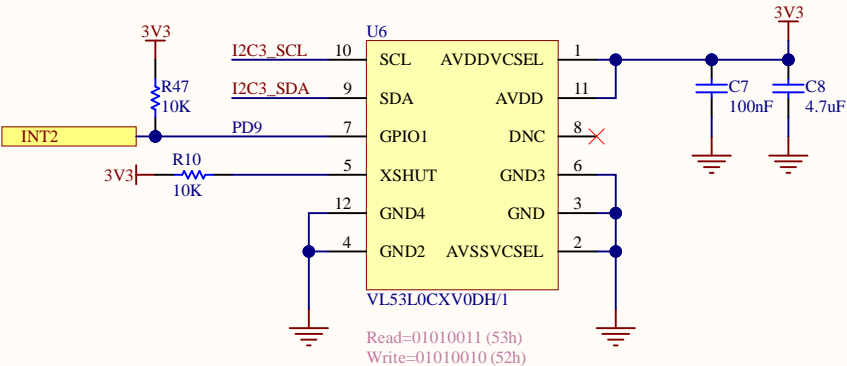




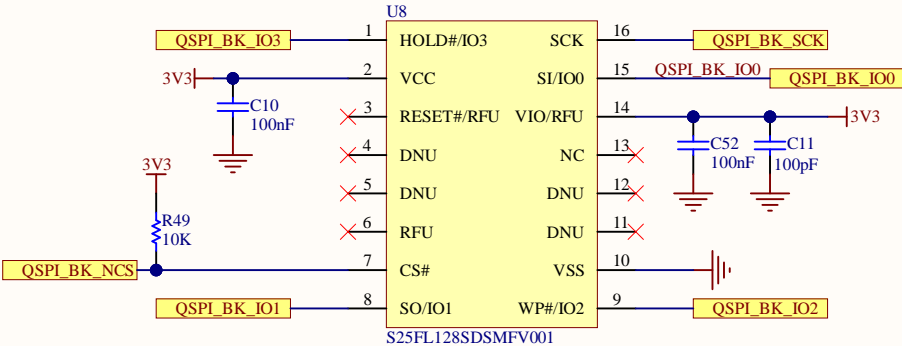
Temperature sensor



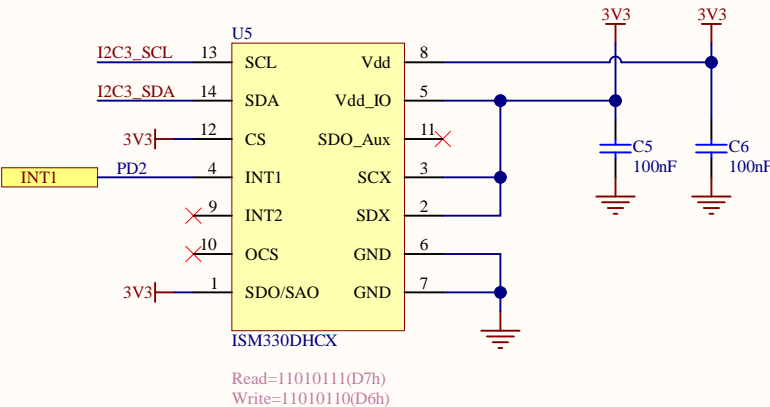
Time-of-Flight ranging and gesture detection sensor



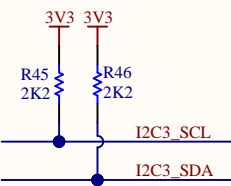
Quad-SPI



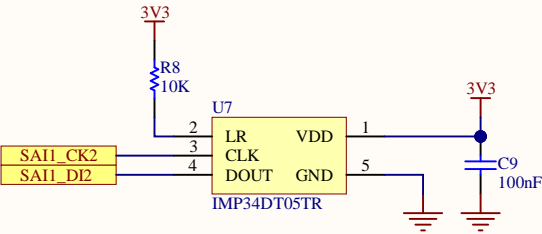
3D accelerometer and 3D gyroscope



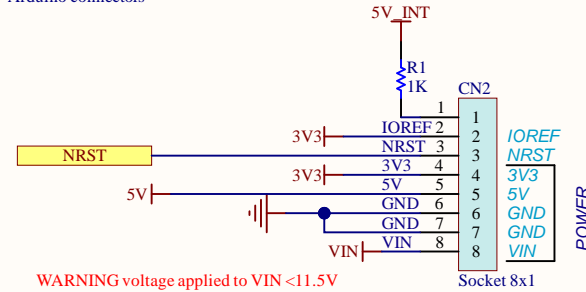
I2C3 Pull-up



MEMS micro



Arduino connectors



ARD_ADC.ADC1_IN4	PC3	1	A0
ARD_ADC.ADC1_IN7	PA2	2	A1
COM.ADC1_IN10	PA5	3	A2
COM.ADC1_IN2	PC1	4	A3
ARD_ADC.ADC1_IN13	PC4	5	A4
ARD_ADC.ADC1_IN14	PC5	6	A5

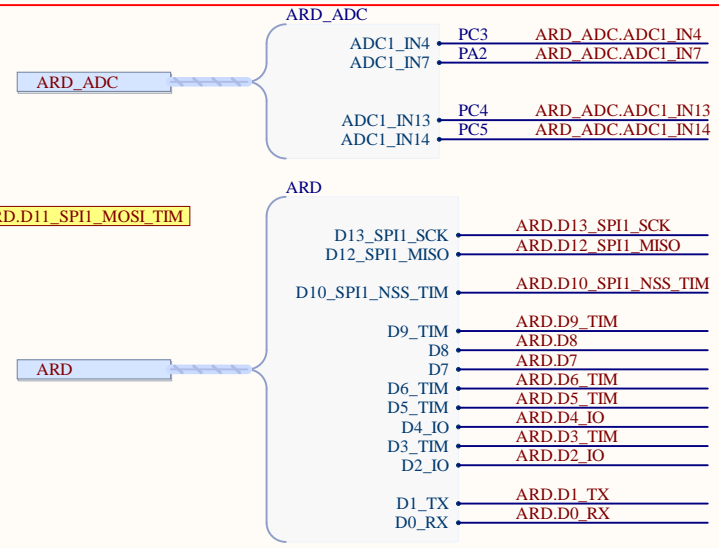
Socket 6x1

CN1	10	PB8	COM.I2C1_SCL
SCL/D15	9	PA10	COM.I2C1_SDA
SDA/D14	8		AVDD
GND	7		
SCK/D13	6	PA1	ARD.D13_SPI1_SCK
MISO/D12	5	PB4	ARD.D12_SPI1_MISO
PWM/MOSI/D11	4	PA7	ARD.D11_SPI1_MOSI_TIM
PWM/CS/D10	3	PA4	ARD.D10_SPI1_NSS_TIM
PWM/D9	2	PD15	ARD.D9_TIM
D8	1	PD13	ARD.D8

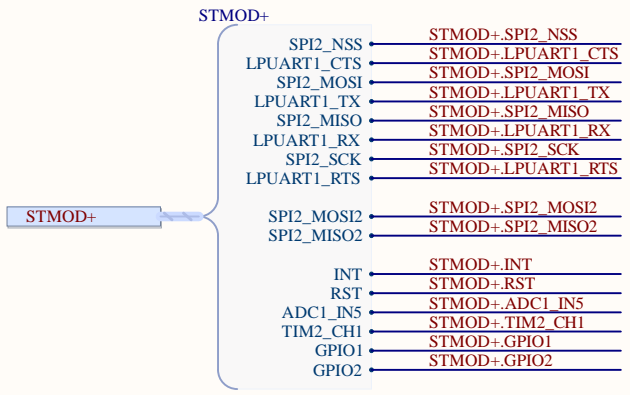
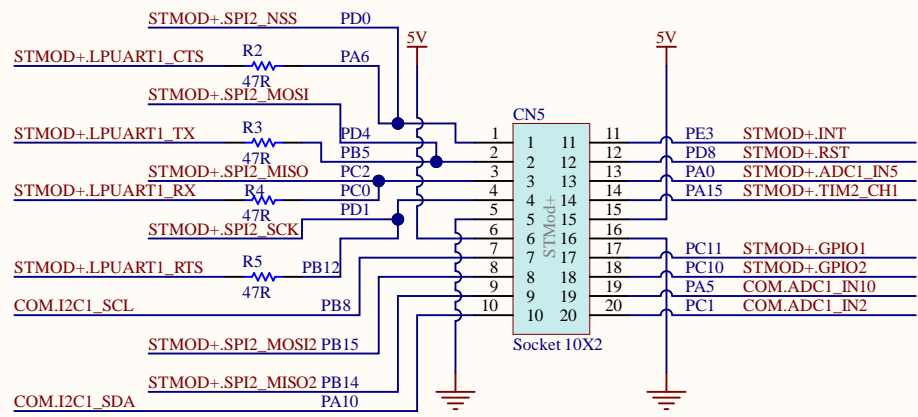
Socket 10x1

CN4	8	PB2	ARD.D7
D7	7	PE0	ARD.D6_TIM
PWM/D6	6	PB10	ARD.D5_TIM
PWM/D5	5	PE4	ARD.D4_IO
PWM/D3	4	PD14	ARD.D3_TIM
D2	3	PD12	ARD.D2_IO
TX/D1	2	PB5	ARD.D1_TX
RX/D0	1	PC0	ARD.D0_RX

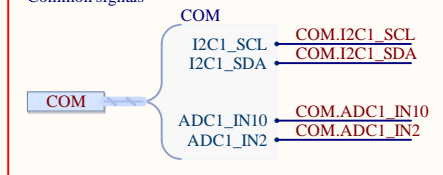
Socket 8x1



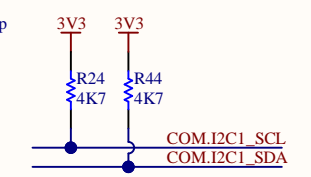
STMOD+



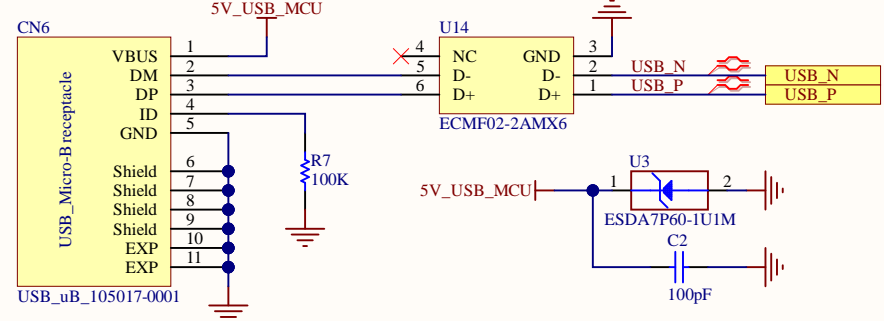
Common signals



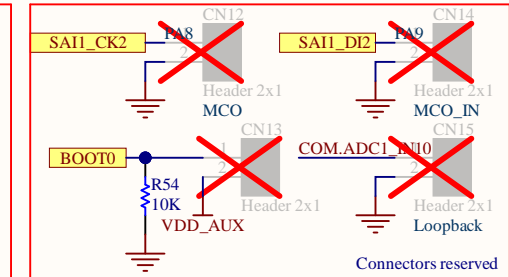
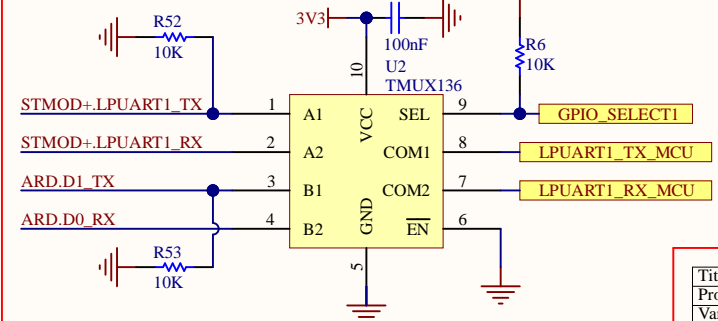
I2C1 Pull-up



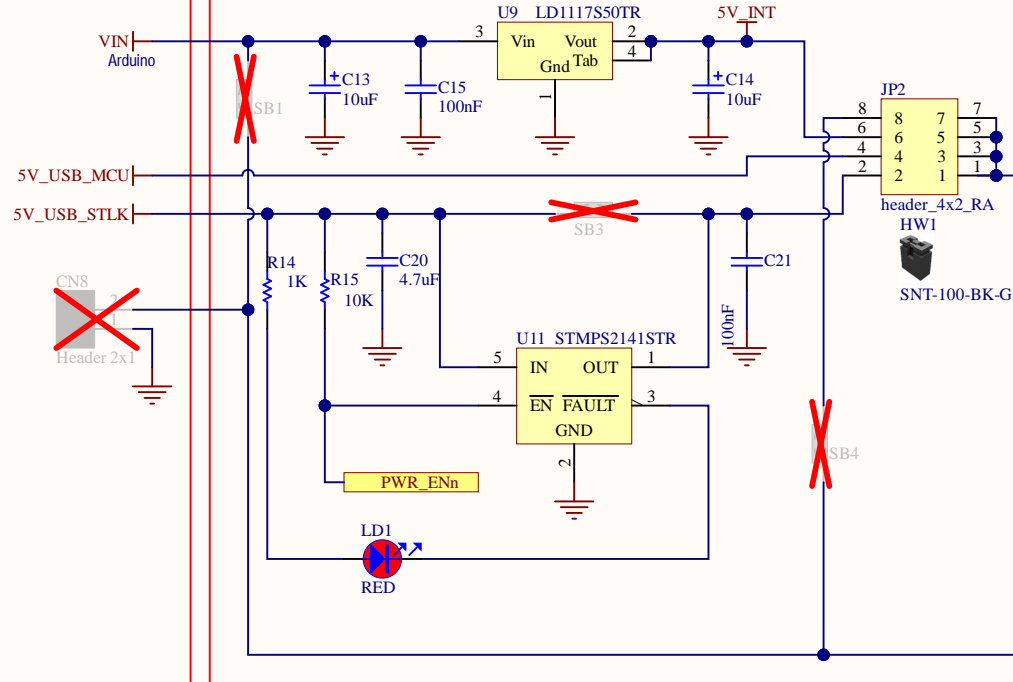
USB User



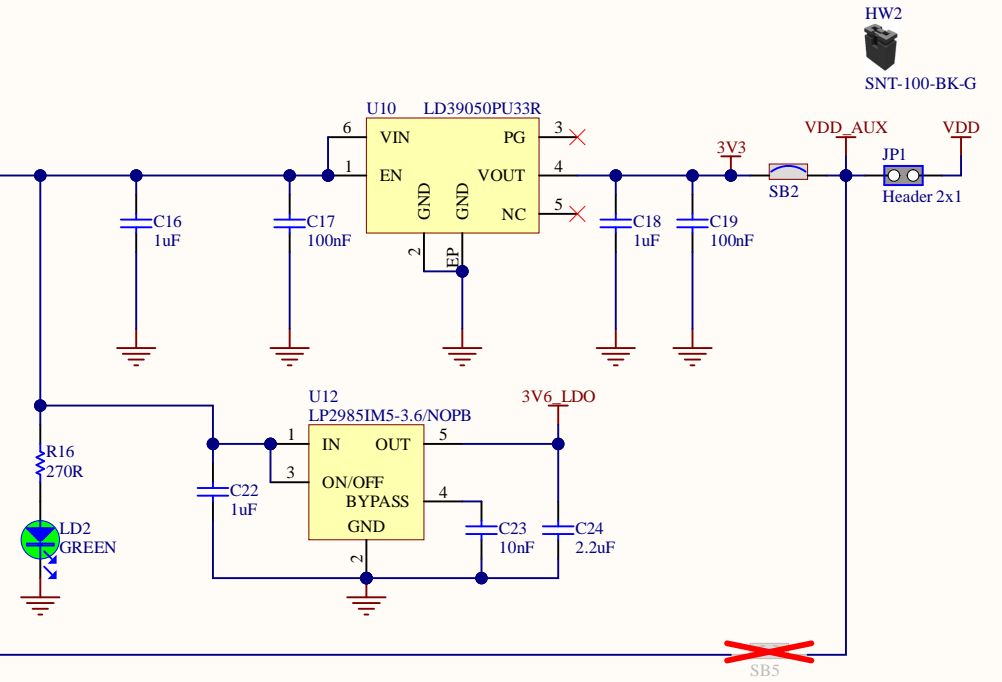
LPUART switch



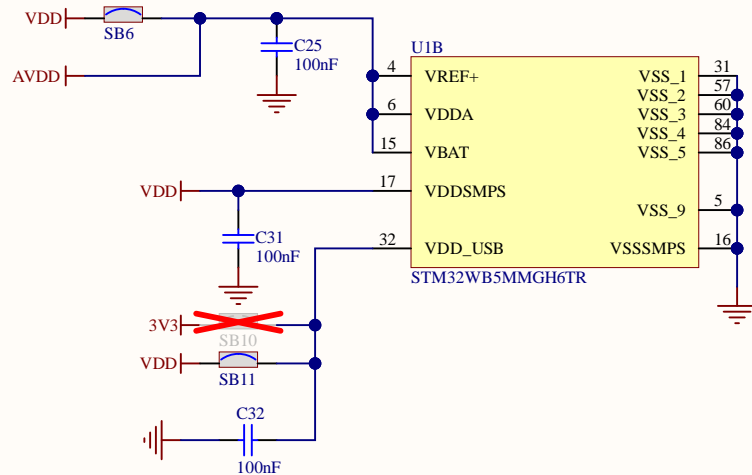
Supply sources



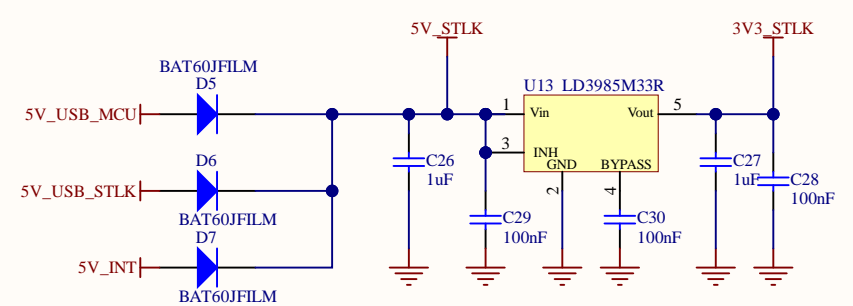
Common supply parts



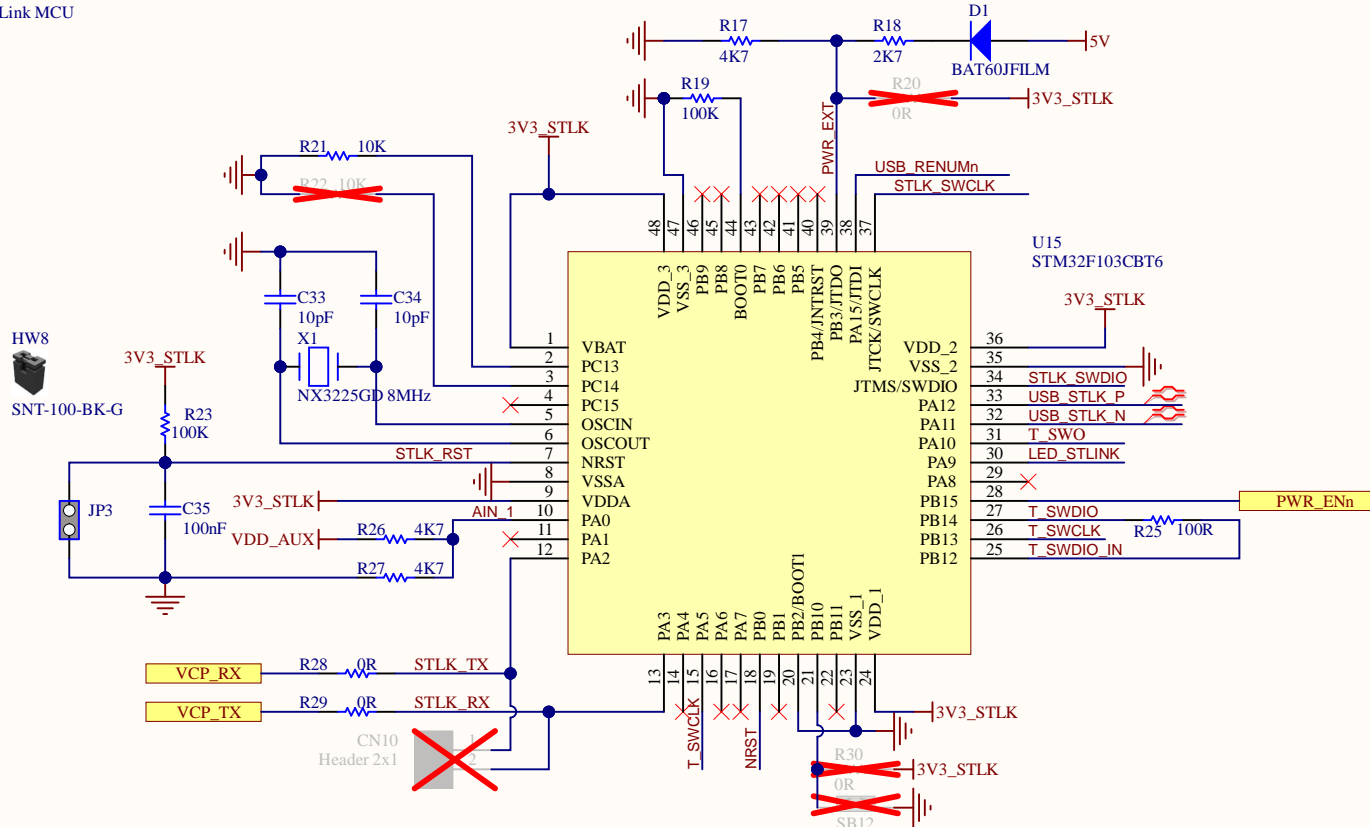
MCU and SMPS supply domain



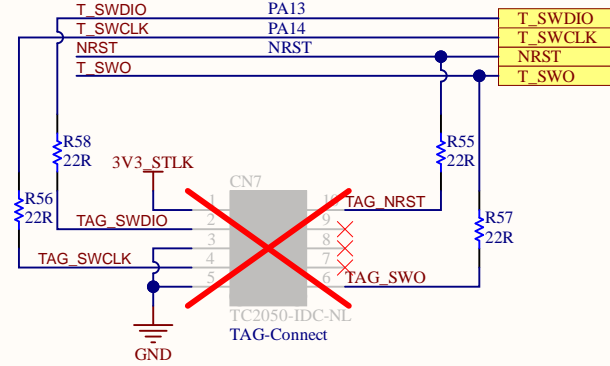
3V3 LDO dedicated to ST-Link



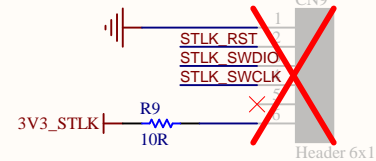
ST-Link MCU



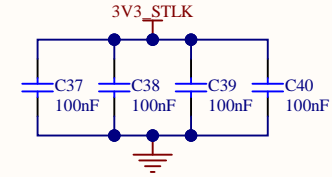
TAG connect



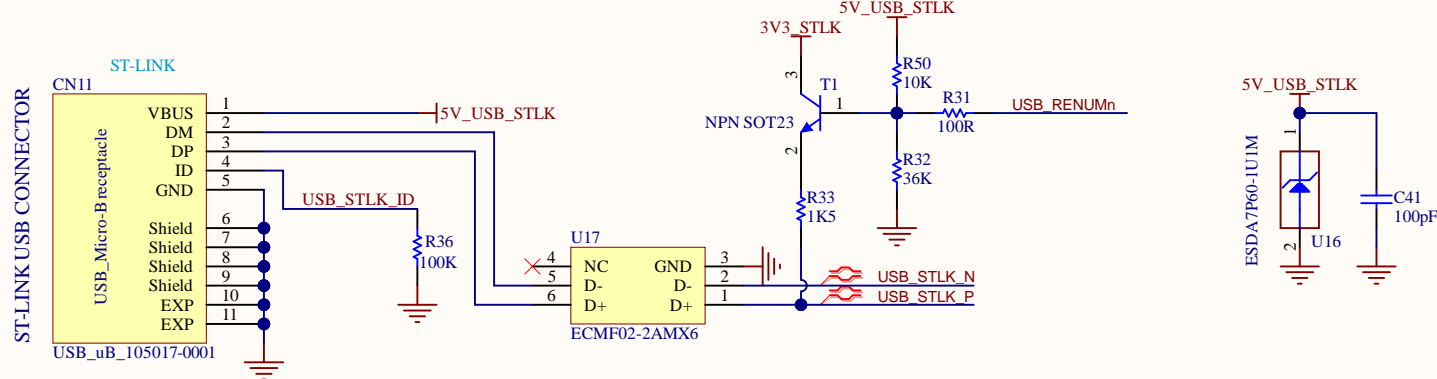
ST-Link SWD connector



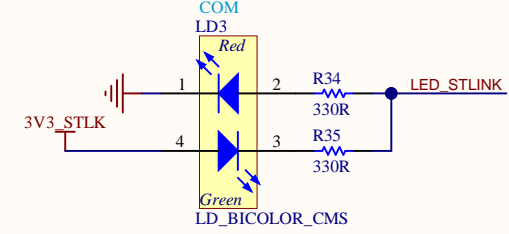
ST-Link decoupling

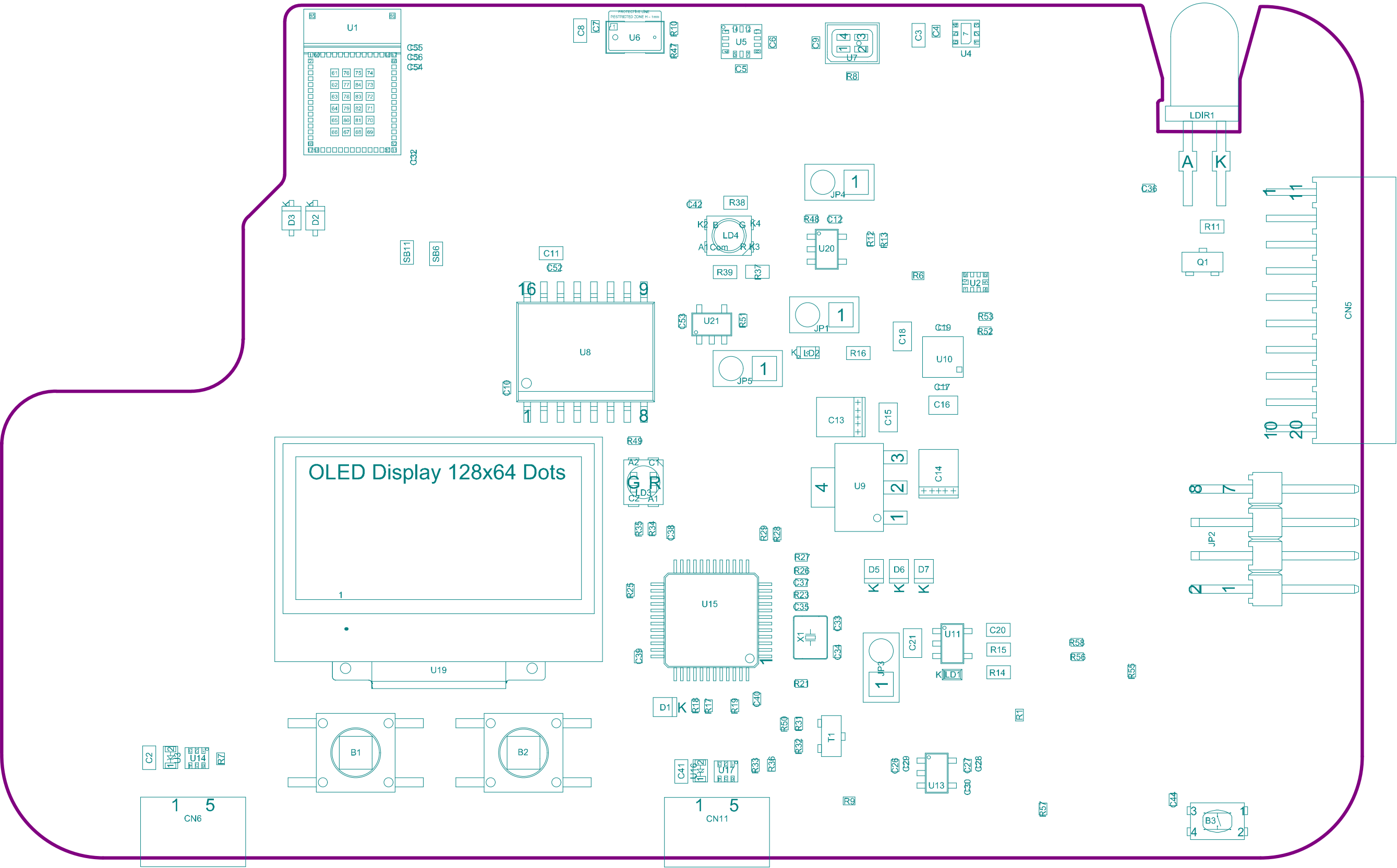


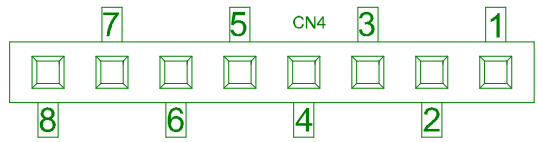
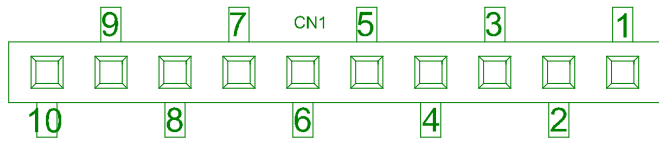
ST-Link USB



ST-Link COM LED



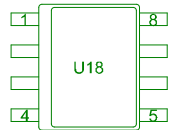




R3
R4

C1

SB2



R2
R5

R45
R46

R44
R24

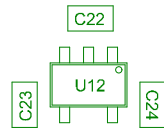
C43

C31
C45

R41
R40

C25

HW6
Product 25x9 sticker



C23

C24

C51
+++

R43

C49
C48
+++

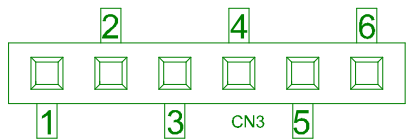
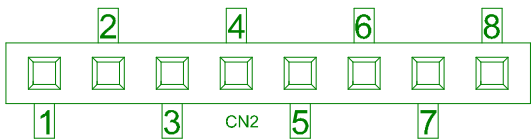
C50

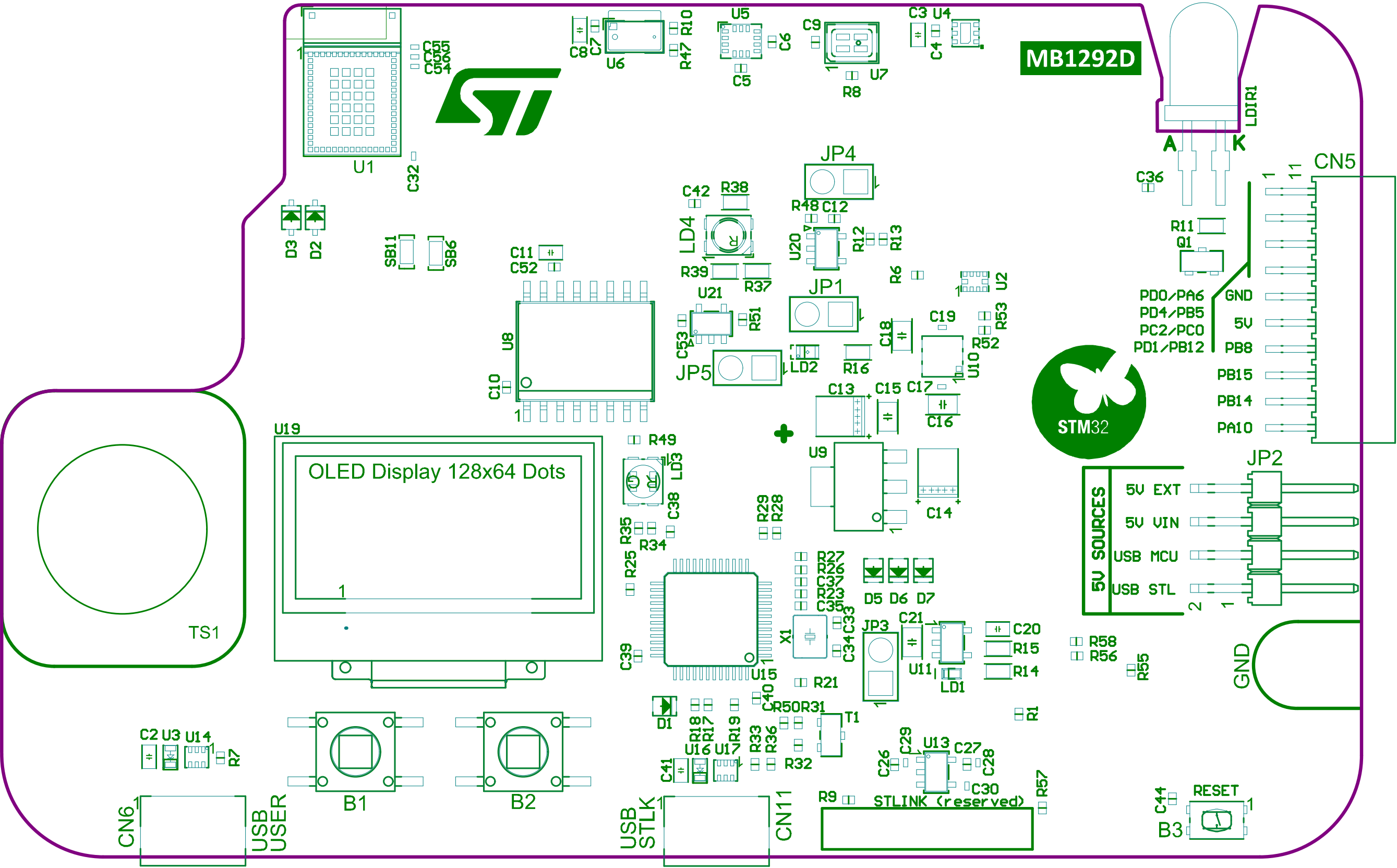
C47

C46

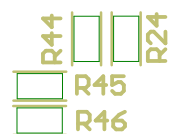
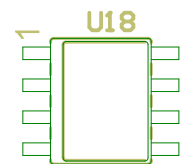
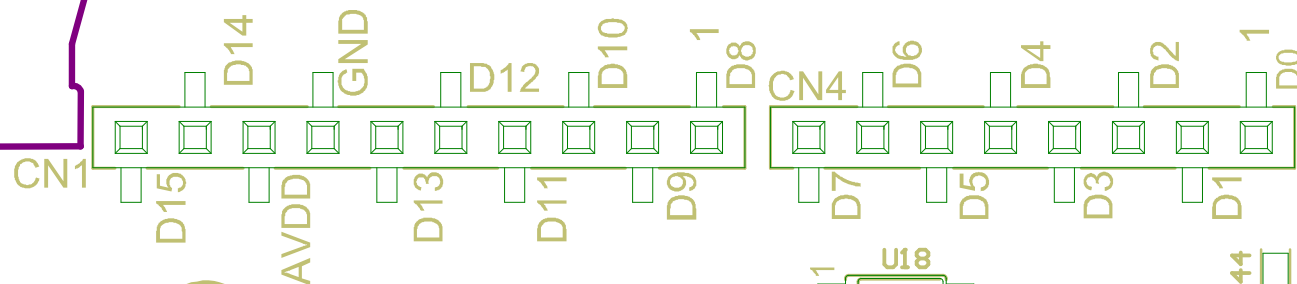
⊕

R54

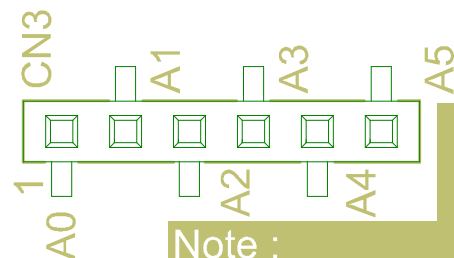
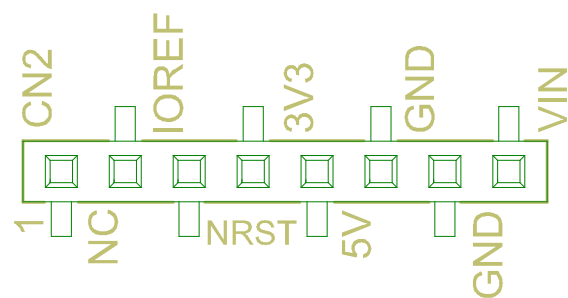
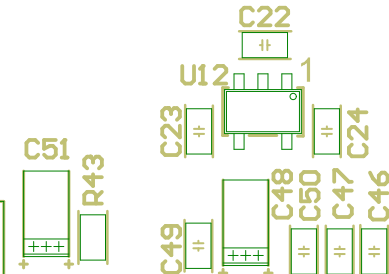
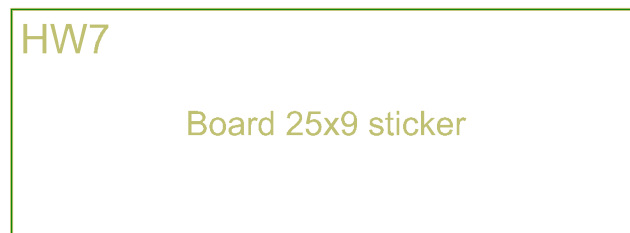




CN5
PE3
PD8
PA0
PA15
5V
GND
PC11
PC10
PA5
PC1



MB1292D



Note :