

NUCLEO64 ext-SMPS

MB1319

Table of contents

Sheet 1: Project overview (this page)

Sheet 2: MB1319_Top

Sheet 3: STM32 microcontroller I/Os

Sheet 4: STM32 microcontroller power

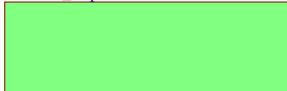
Sheet 5: Arduino extension connectors

Sheet 6: Power

Sheet 7: Power SMPS

Sheet 8: ST-Link/V2-1

U_mb1319_Top
mb1319_Top.SchDoc



Legend

General comment such as function title, configuration, ...

Text to be added to silkscreen.

Warning text.

▲ Notes to generate the
board layout.

OPEN PLATFORM LICENSE AGREEMENT

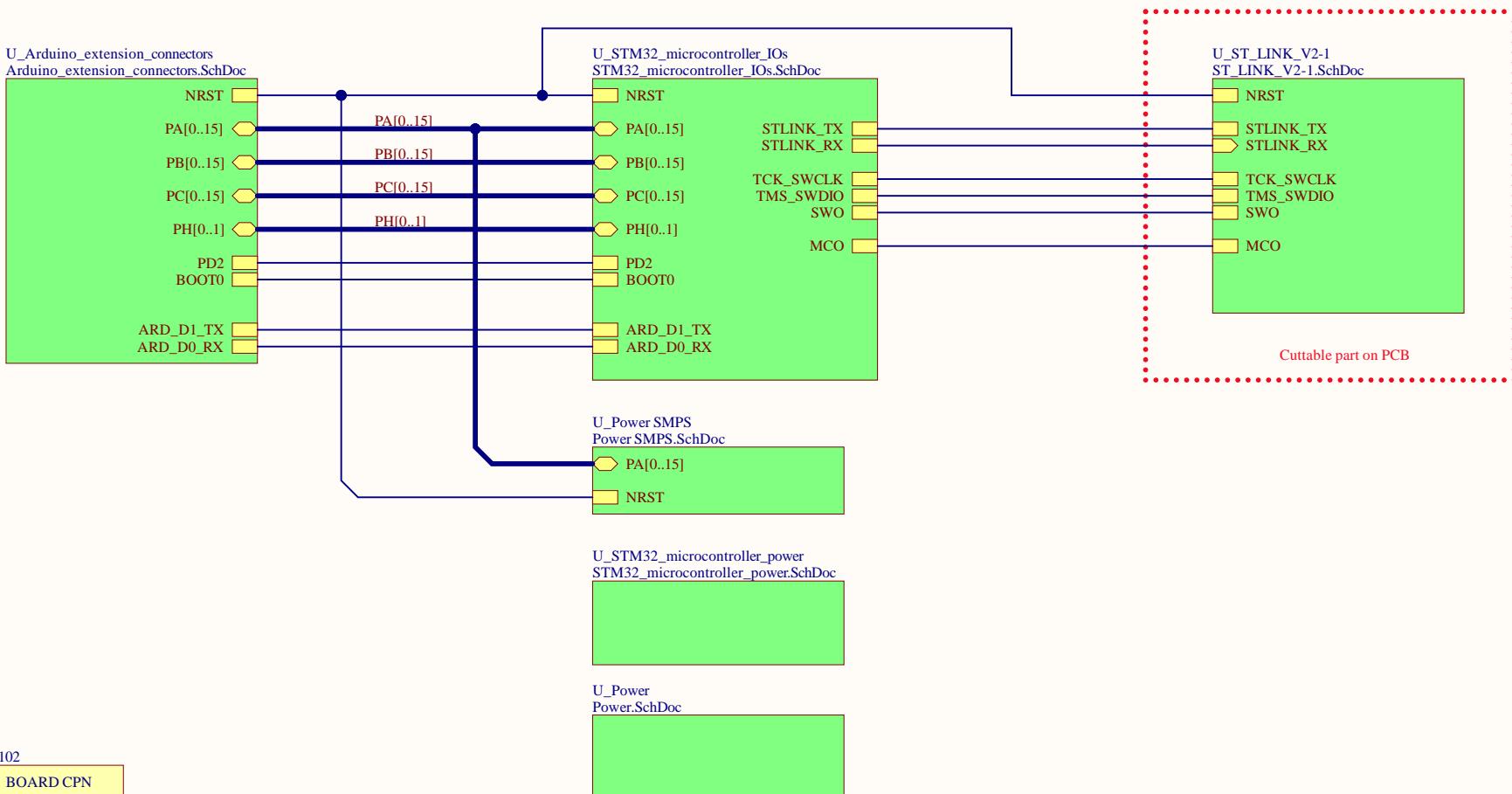
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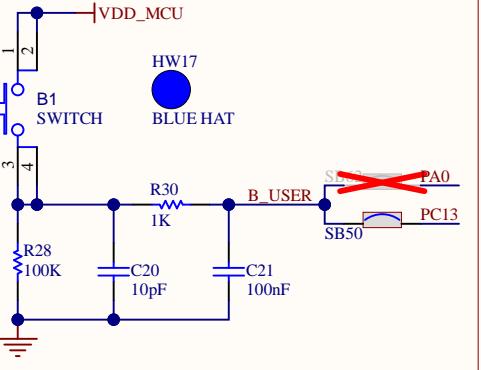
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Title: Project overview	Project: NUCLEO64 ext-SMPS
Variant: L412RB_P	
Revision: C-02	Reference: MB1319
Size: A4	Date: 10-MAY-2022
	Sheet: 1 of 8

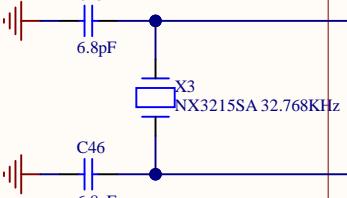




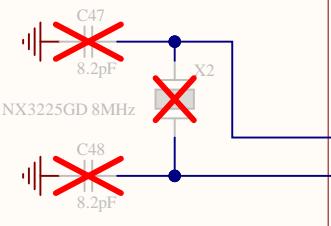
USER BUTTON



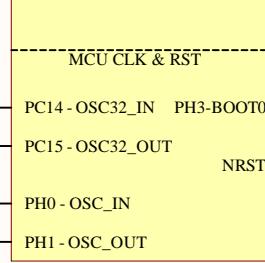
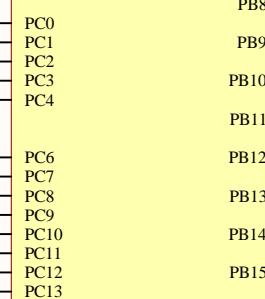
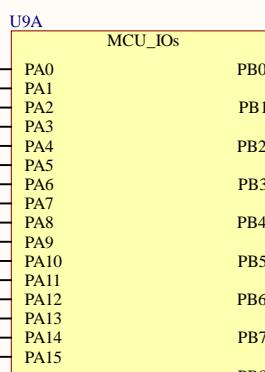
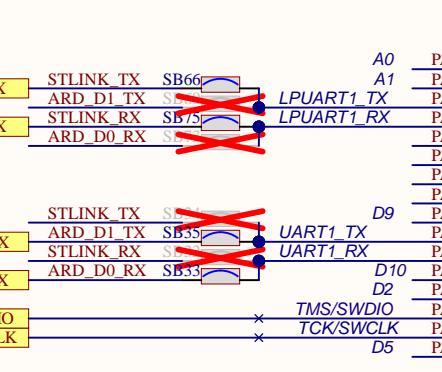
EXTERNAL LSE CLK



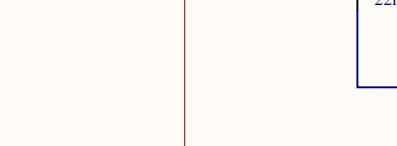
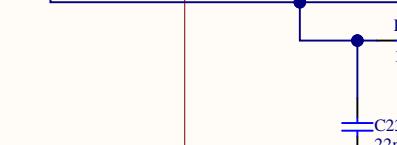
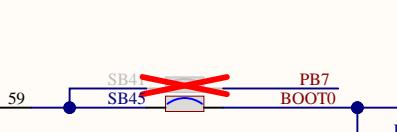
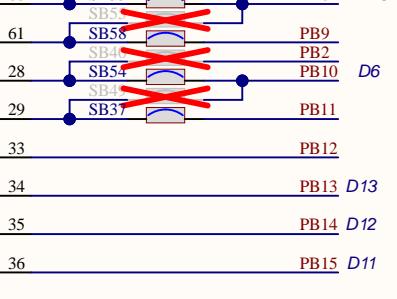
EXTERNAL HSE CLK



PA[0..15] PA[0..15] PB[0..15] PB[0..15] PC[0..15] PC[0..15] PH[0..1] PH[0..1]



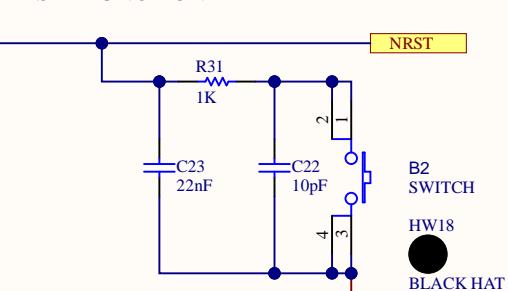
STM32L412RB TQFP64



For IC compatible config 1:
Pin25: PB0: SB63
Pin26: PB1: SB52
Pin27: PB2: SB44
Pin54: PB3: SB18
Pin55: PB4: SB22
Pin56: PB5: SB26
Pin57: PB6: SB28
Pin58: PB7: SB38
Pin60: PB8: SB53
Pin61: PB9: SB58
Pin28: PB10: SB54
Pin29: PB11: SB37
Pin59: PH3-BOOT0: SB45

For IC compatible config 2:
Pin25: PC5: SB59
Pin26: PB0: SB57
Pin27: PB1: SB47
Pin54: PD2: SB16
Pin55: PB3: SB19
Pin56: PB4: SB23
Pin57: PB5: SB27
Pin58: PB6: SB36
Pin60: PH3-BOOT0: SB48
Pin61: PB8: SB55
Pin28: PB2: SB40
Pin29: PB10: SB49
Pin59: PB7: SB41

RESET FUNCTION



Title: STM32 microcontroller I/Os

Project: NUCLEO64 ext-SMPs

Variant: L412RB_P

Revision: C-02

Reference: MB1319

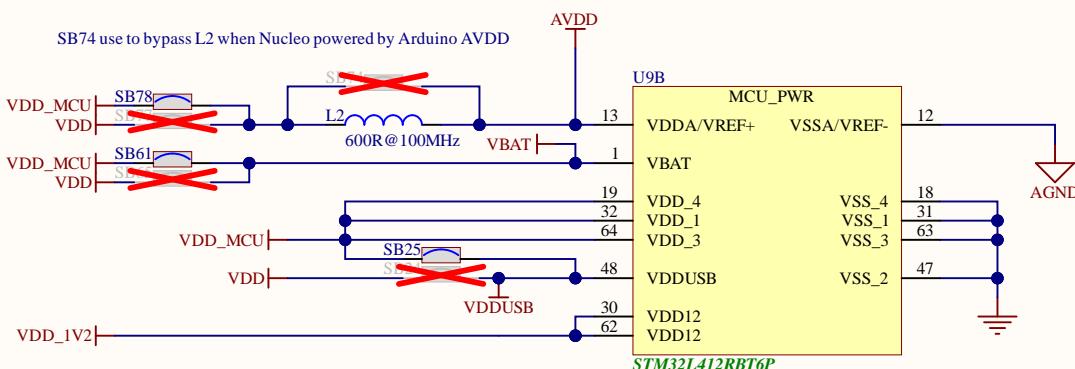
Size: A4

Date: 10-MAY-2022

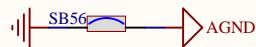
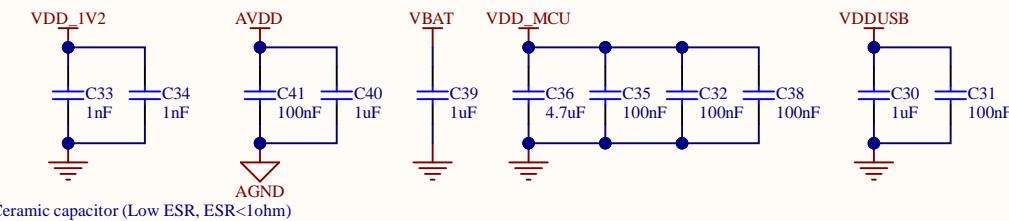
Sheet: 3 of 8



MCU PWR SUPPLIES



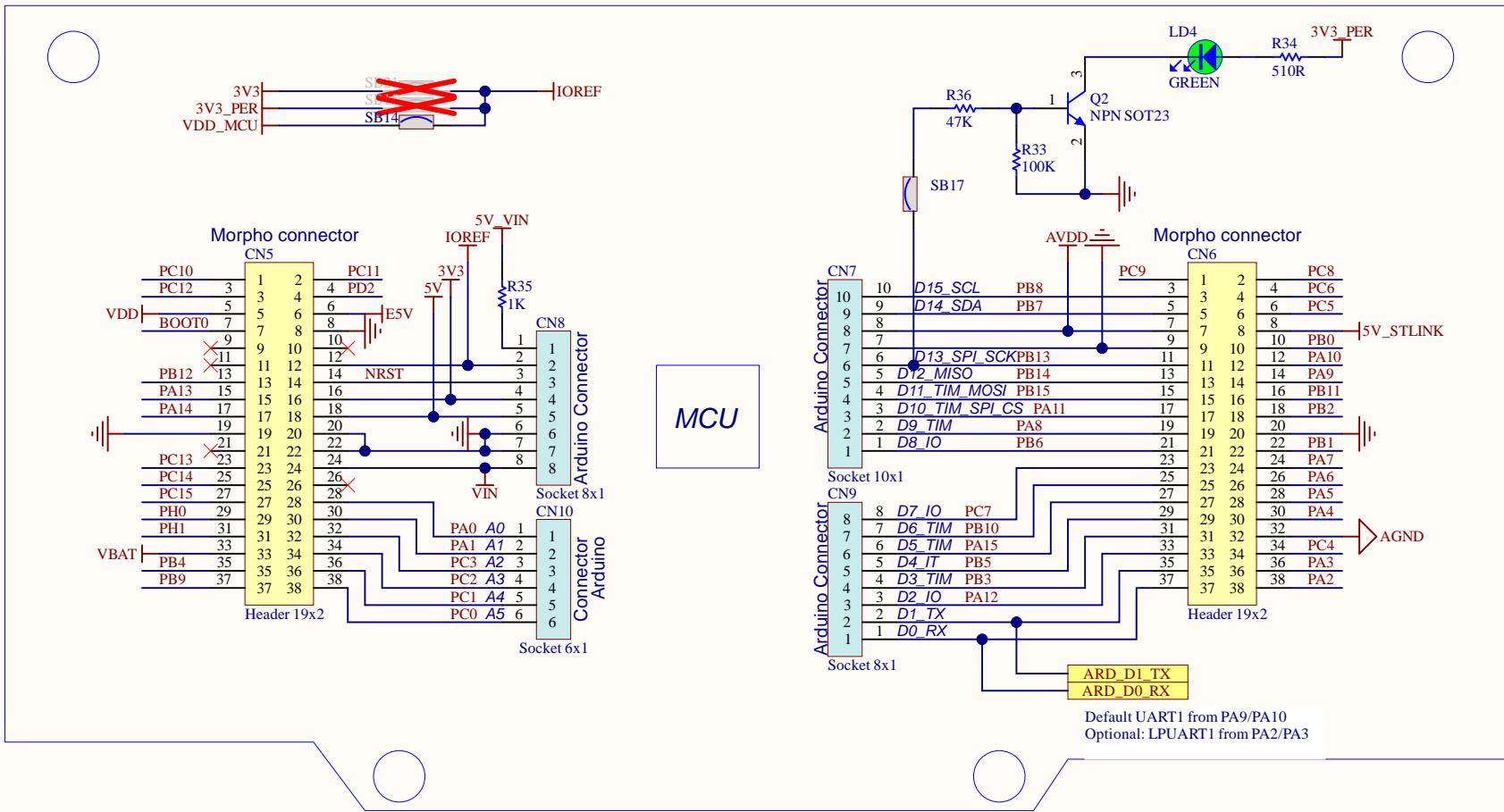
DECAPS



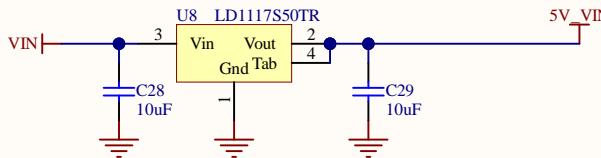
IOREF SELECTION	SB21	SB15	SB14
IOREF=3V3	Closed	Open	Open
IOREF = 3V3_PER	Open	Closed	Open
IOREF=VDD_MCU Mainly for 1V8 compatibility	Open	Open	Closed

Default

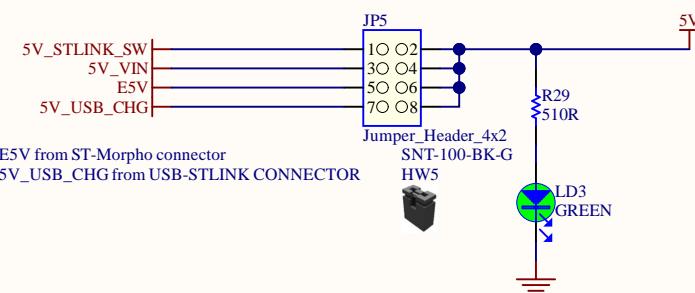
- PA[0..15] PA[0..15]
- PB[0..15] PB[0..15]
- PC[0..15] PC[0..15]
- PD2 PD2
- NRST NRST
- BOOT0 BOOT0
- PH[0..1] PH[0..1]



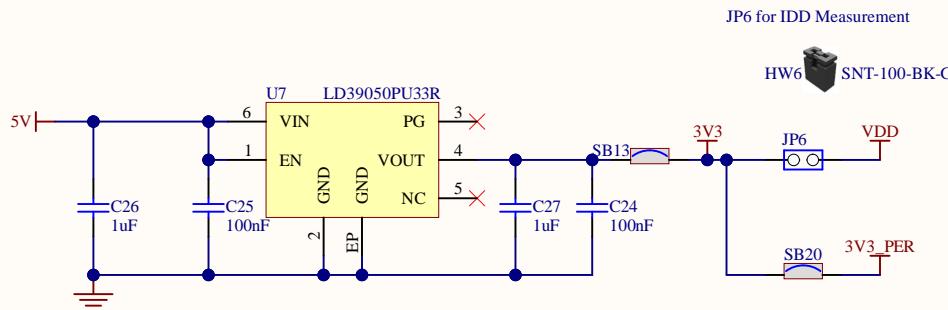
VIN / 5V PWR



5V PWR SELECTION



3V3 PWR



Title: MAIN POWER 5V / 3V3

Project: NUCLEO64 ext-SMPS

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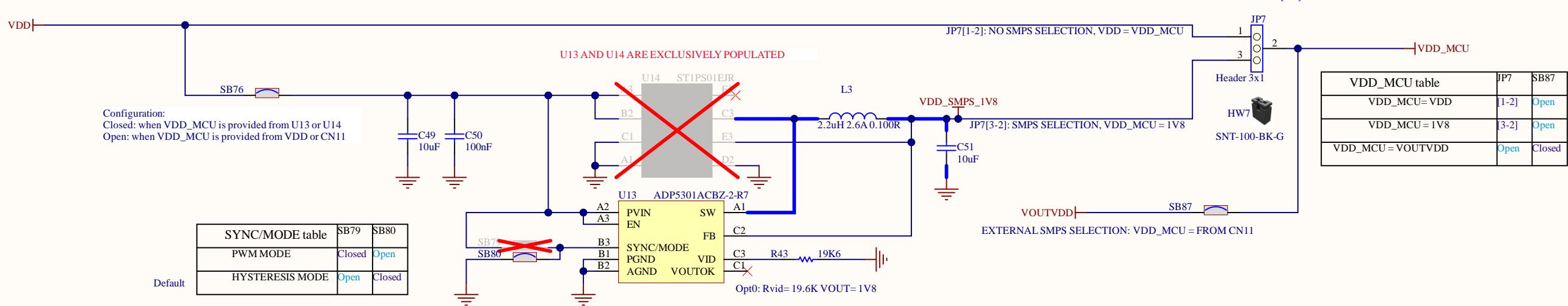
Reference: MB1319

Size: A4 | Date: 10-MAY-2022



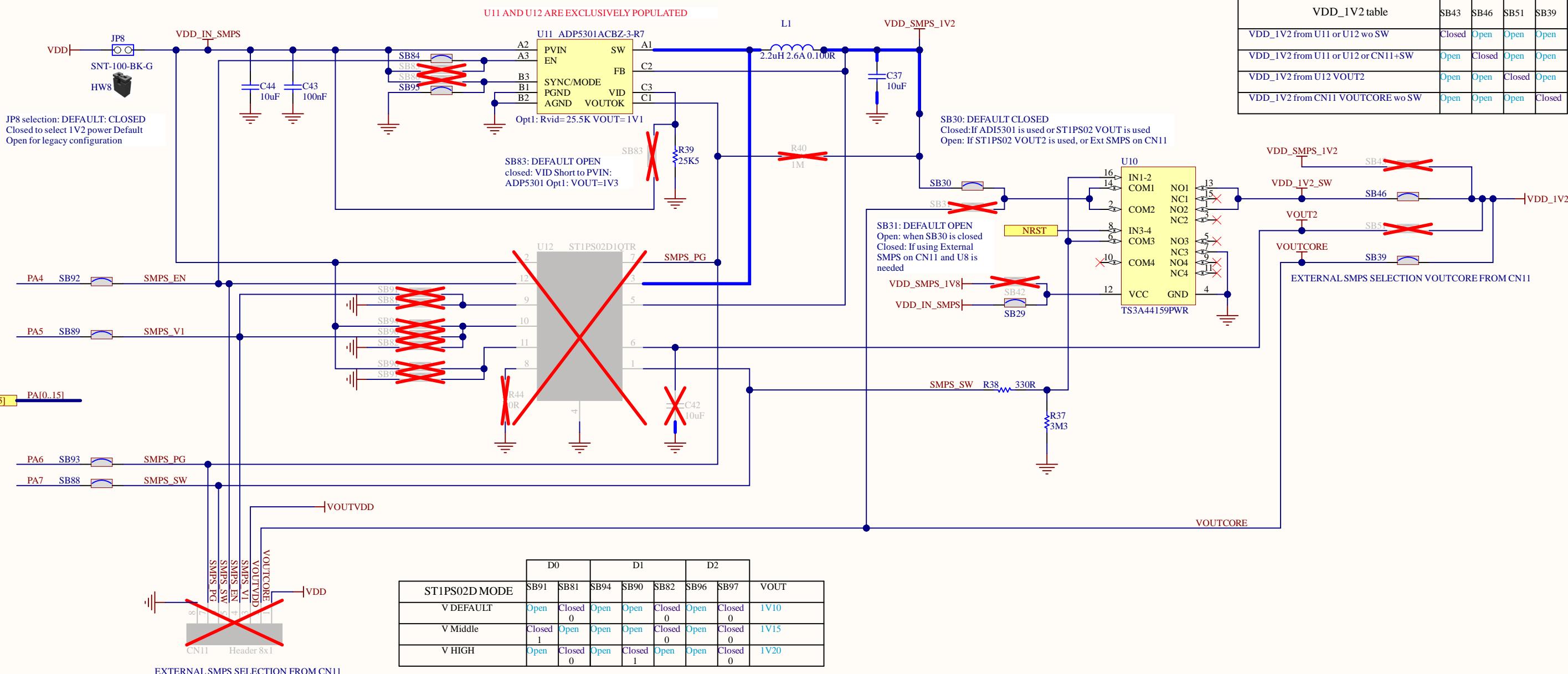
Sheet: 6 of 8

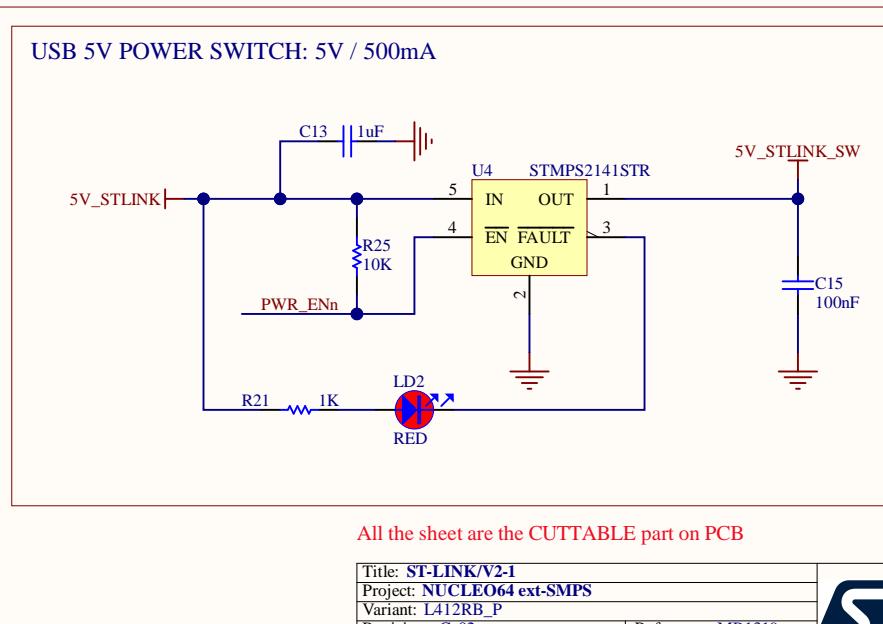
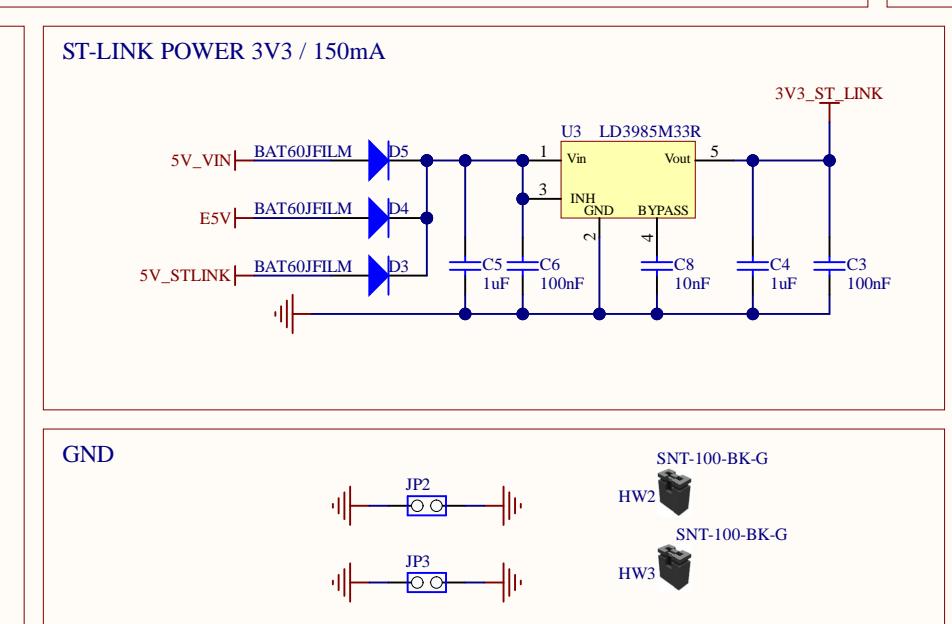
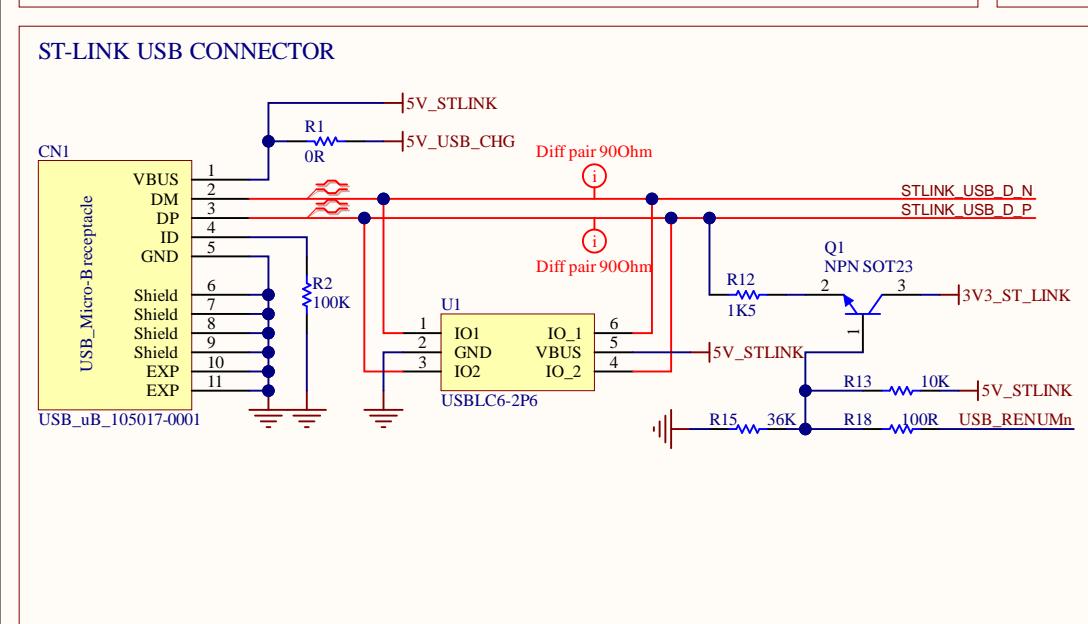
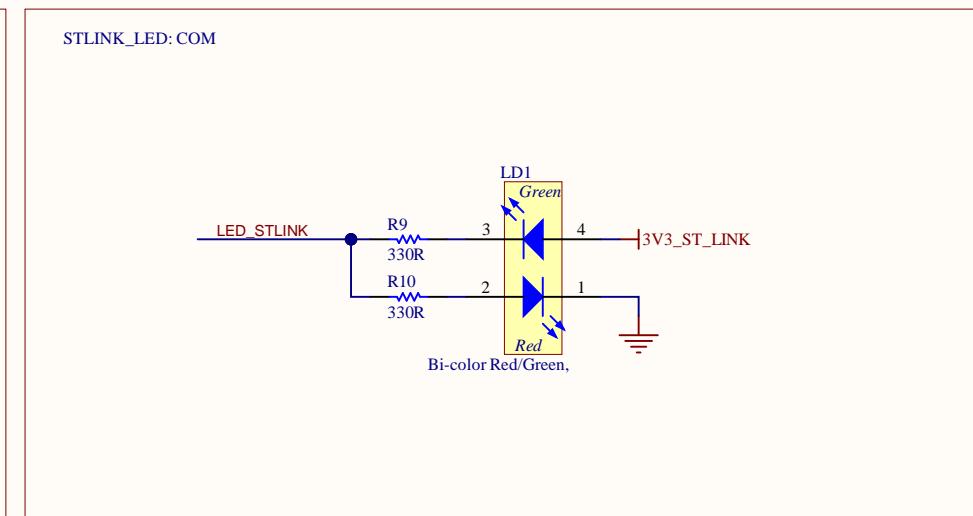
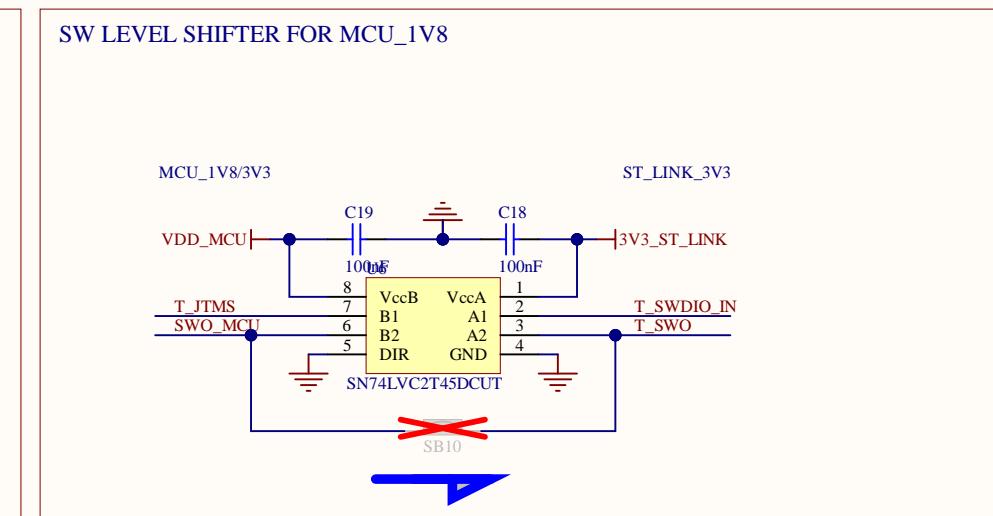
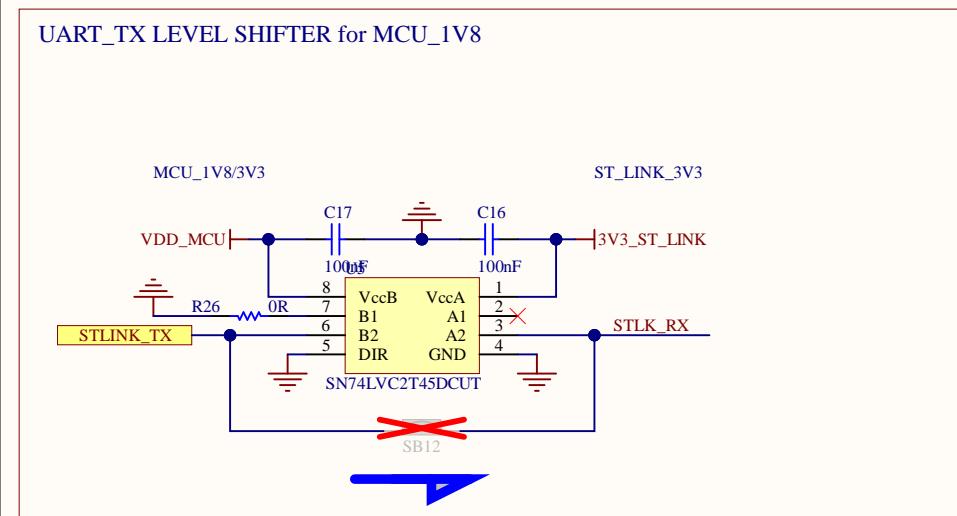
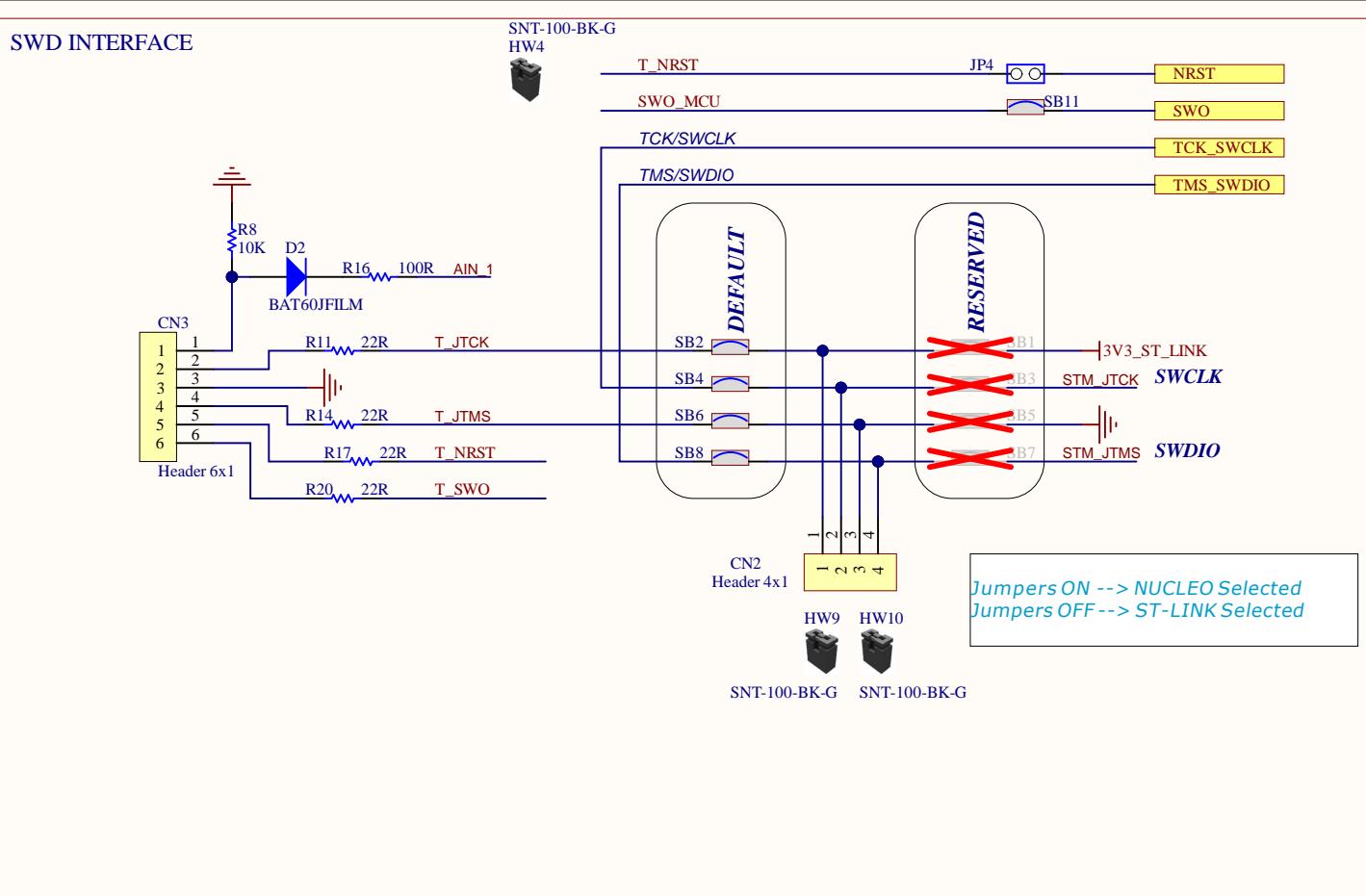
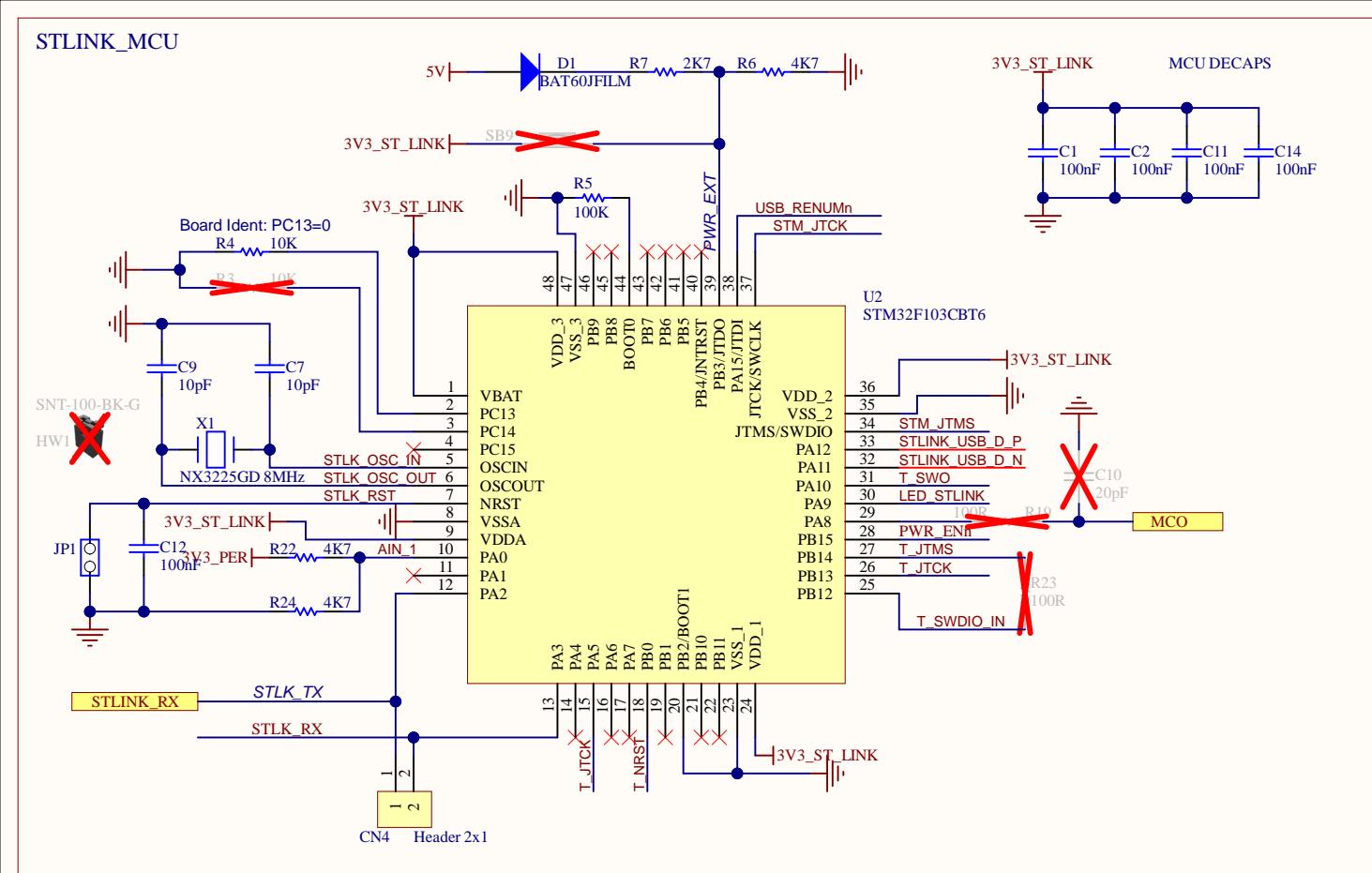
VDD MCU SELECTION



SMPS SELECTION, VDD_1V2

Comment on this part are for Ext 1V2 SMPS configuration

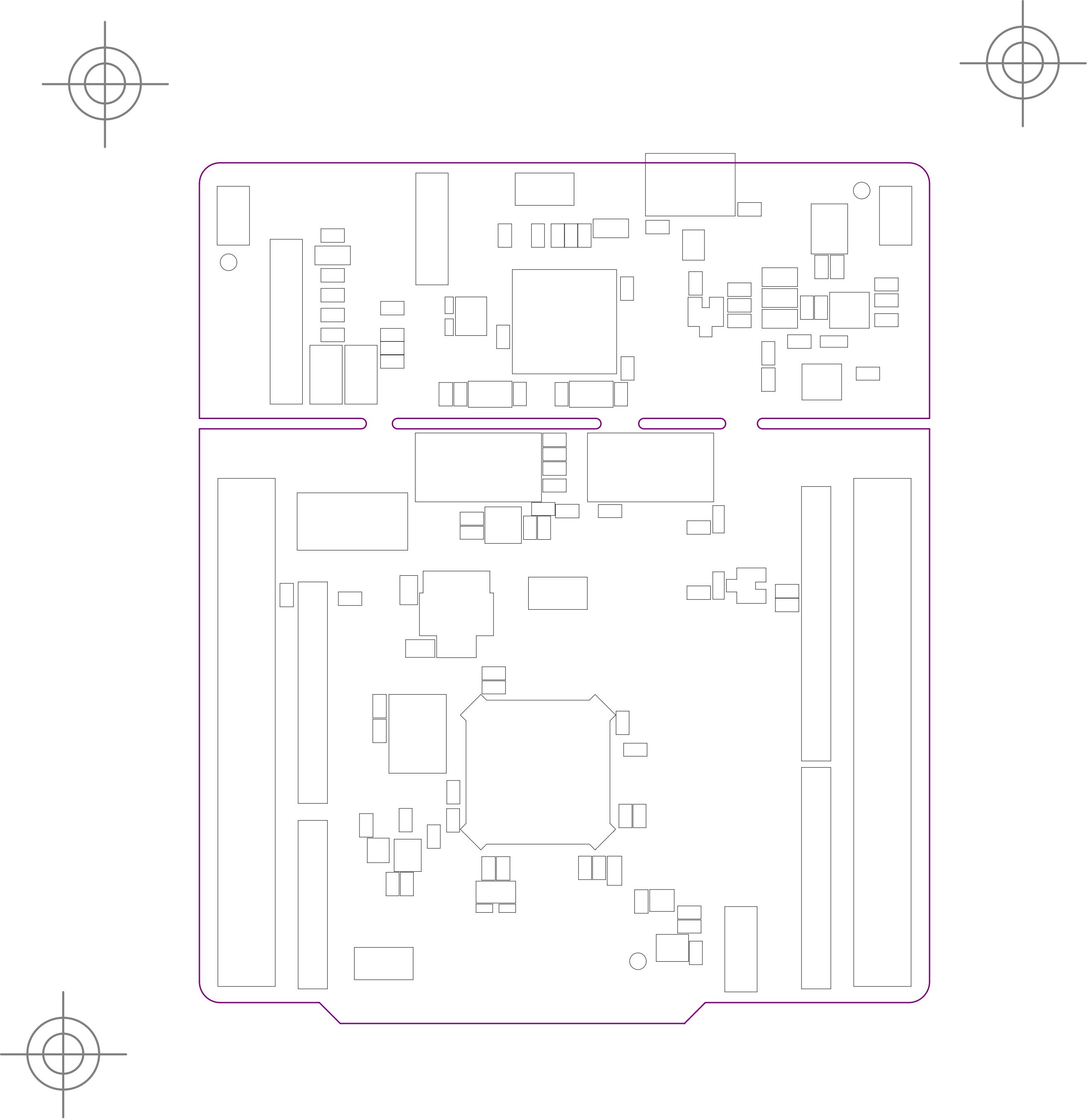


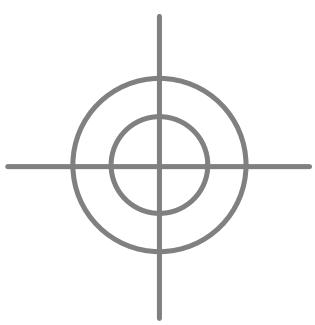
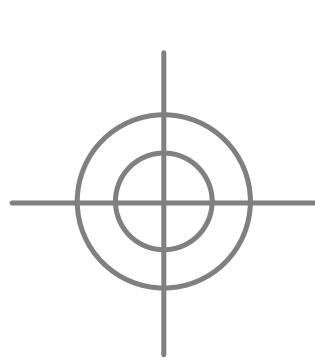
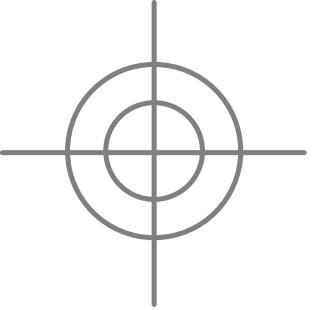
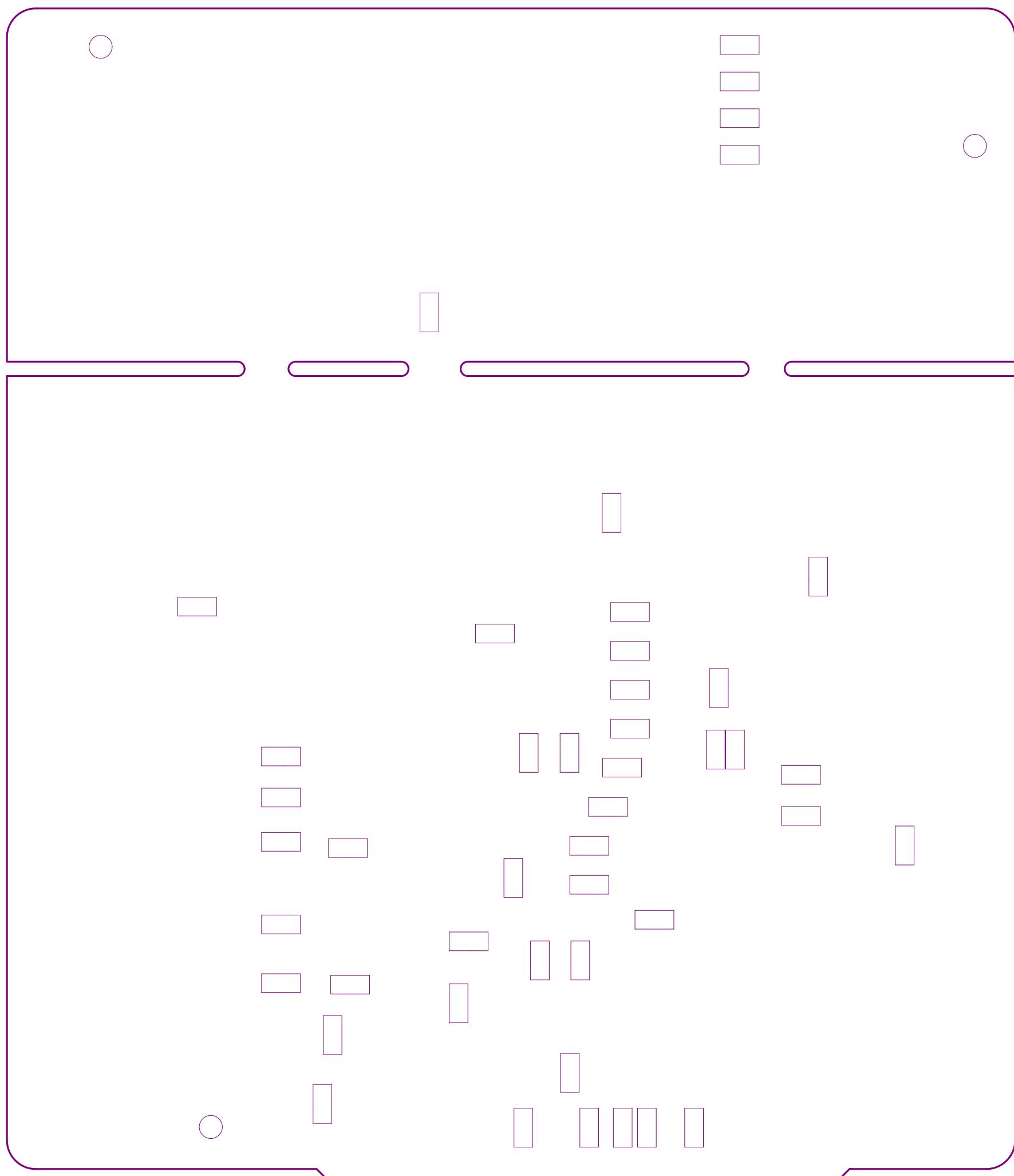


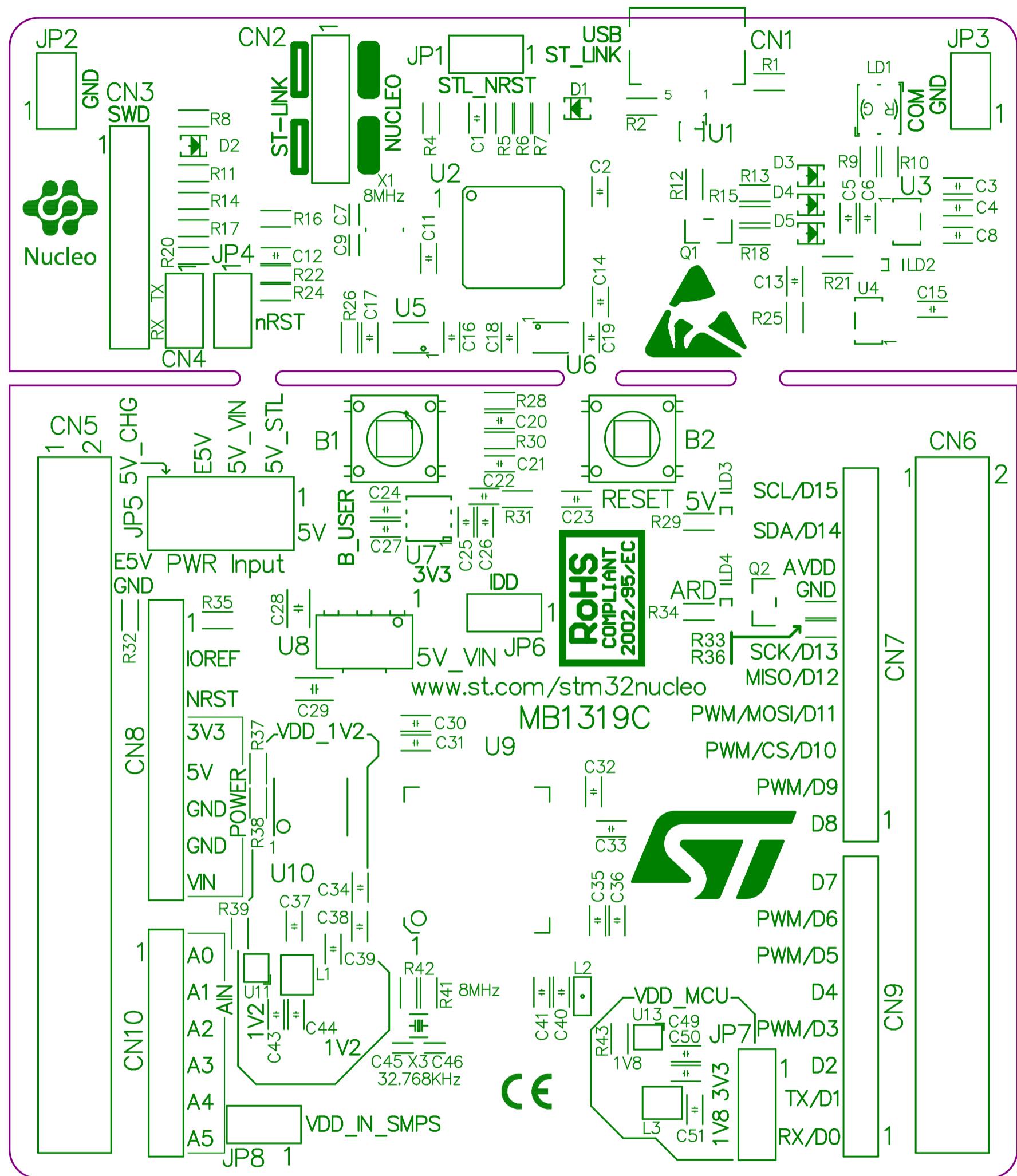
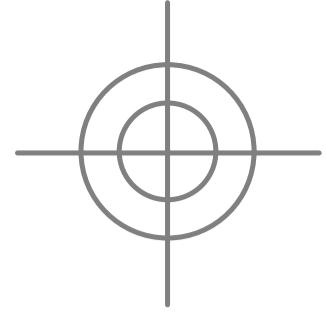
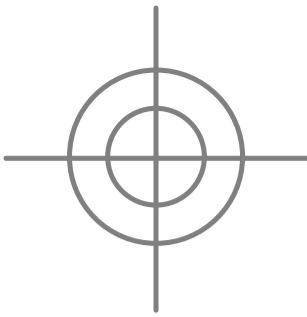
All the sheet are the CUTTABLE part on PCB

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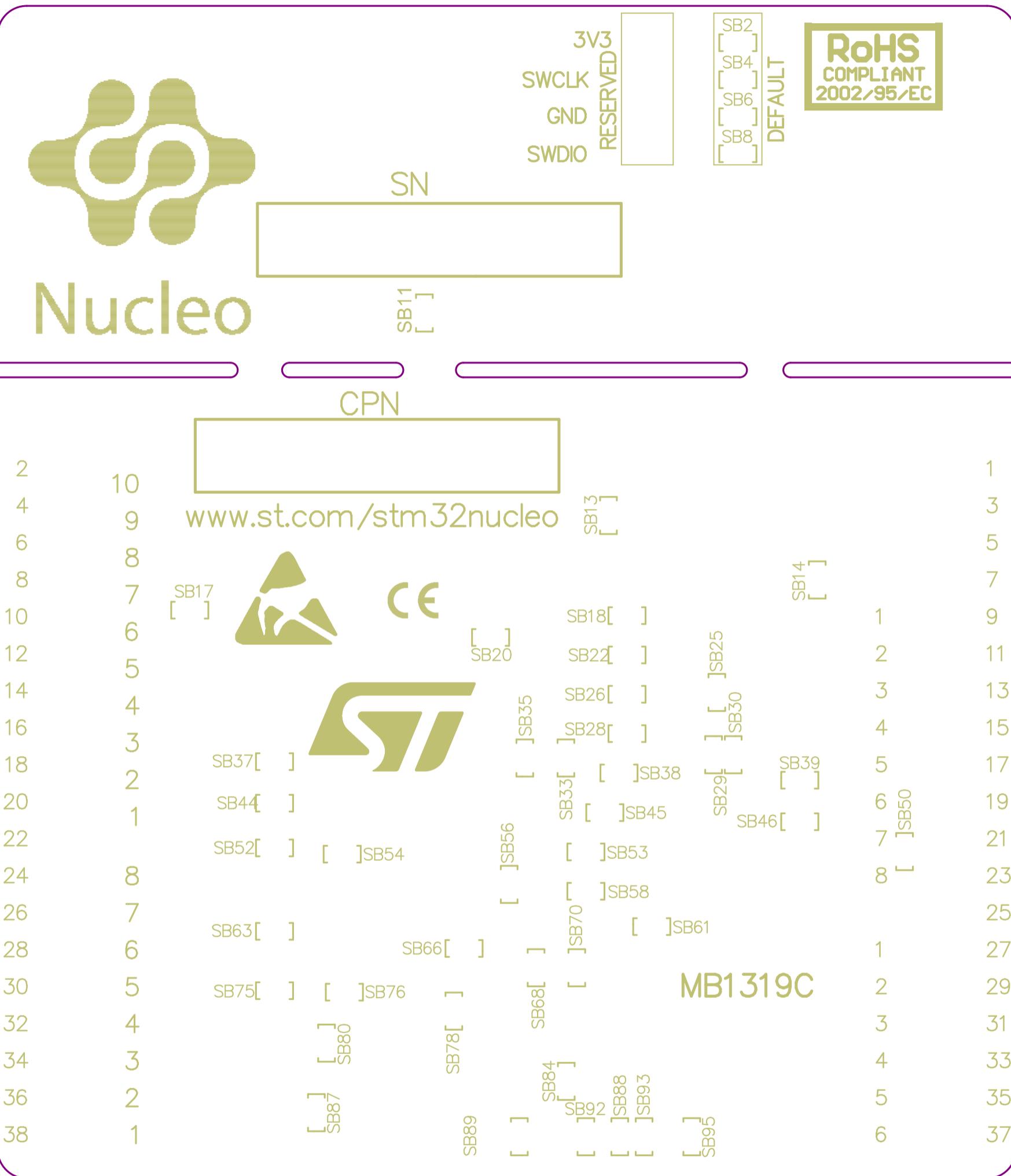








SILKSCREEN, (PRIMARY)



SILKSCREEN, (SECONDARY)