

# NUCLEO-144 LEGACY

MB1404

H563ZI

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## Legend

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

Text to be added to silkscreen.

Warning text.

▲ Notes to generate the board layout.

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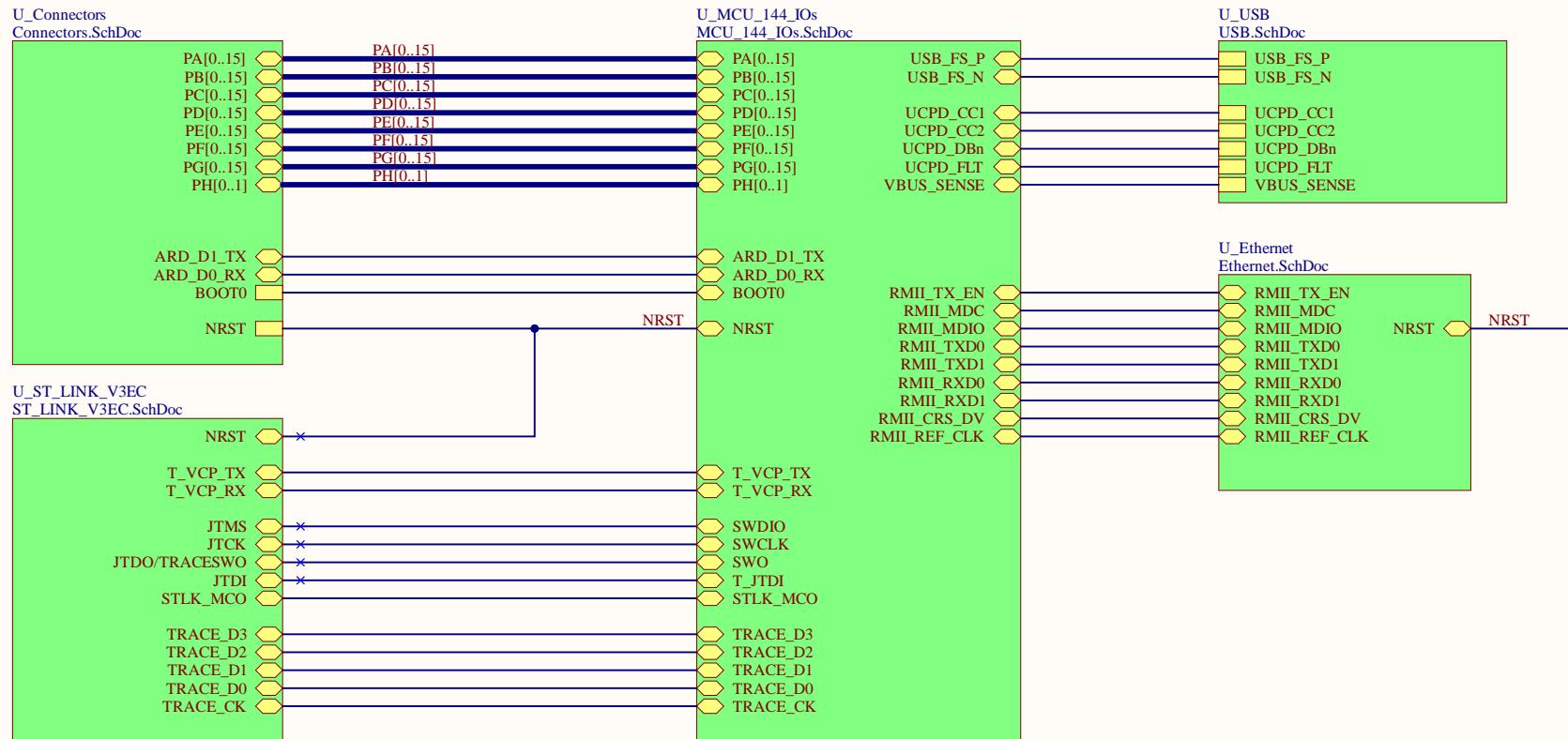
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U\_MB1404\_Top  
MB1404\_Top.SchDoc

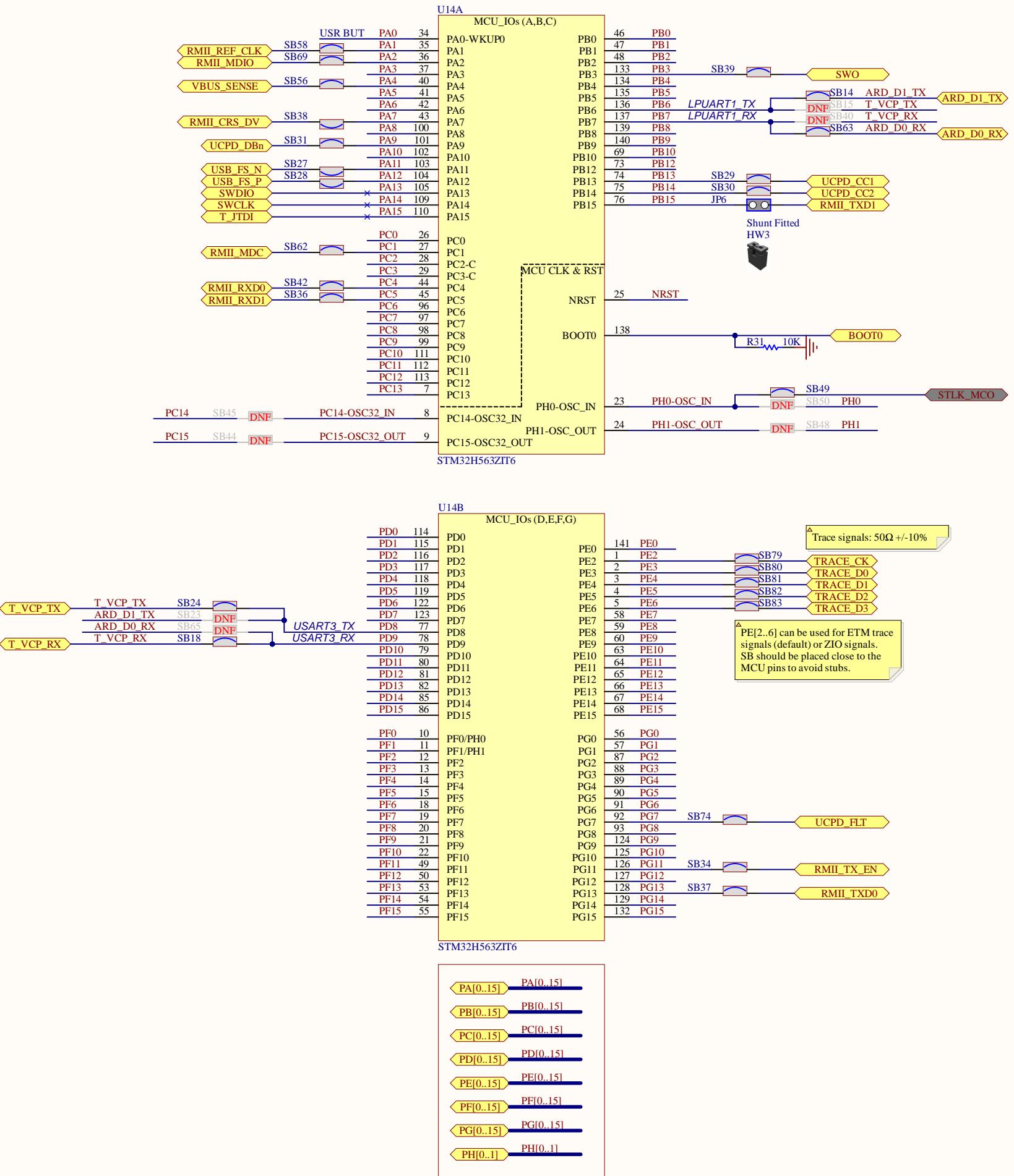


Title: <a href="#">Project overview</a>	Project: <a href="#">NUCLEO-144 LEGACY</a>
Variant: <a href="#">H563ZI</a>	
Revision: C-01	Reference: <a href="#">MB1404</a>
Size: A4	Date: 2022-SEP-12
Sheet: 1 of 9	

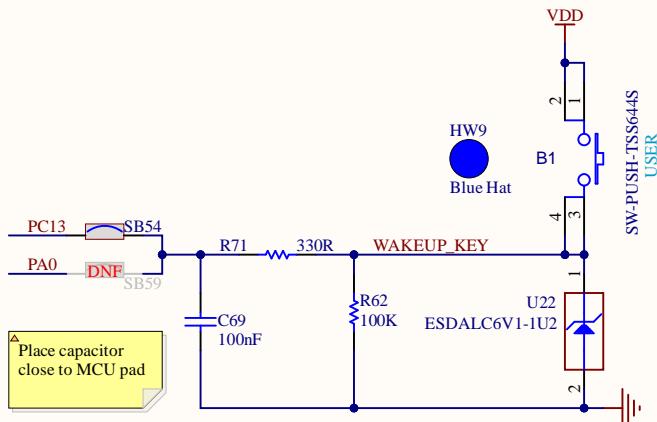




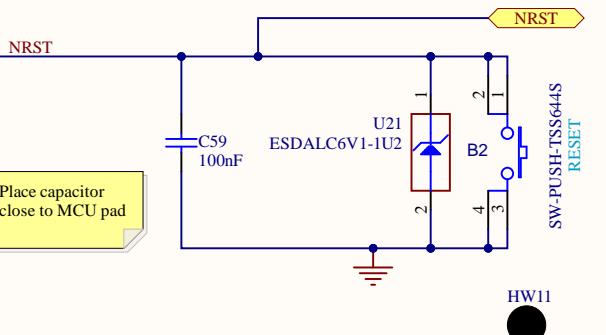
## MCU IO CLK and RST



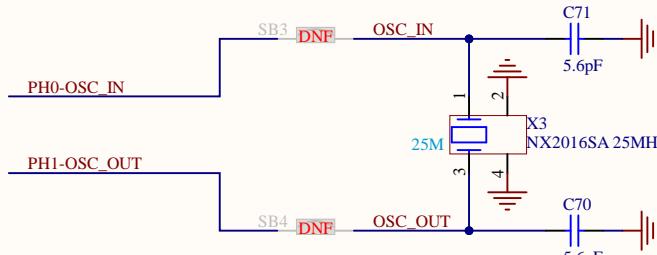
## USER BUTTON



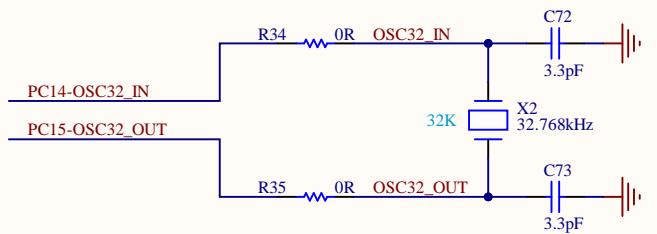
## RESET FUNCTION



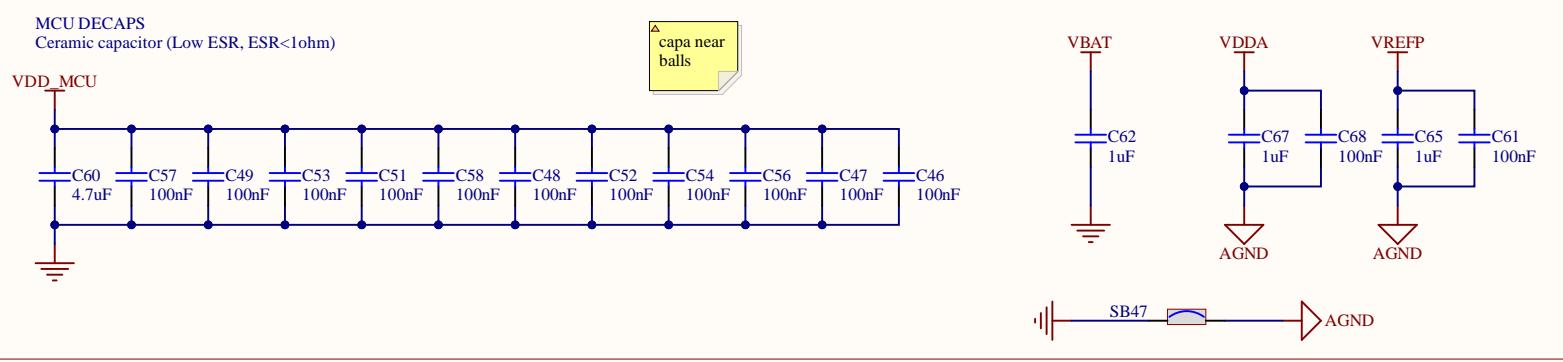
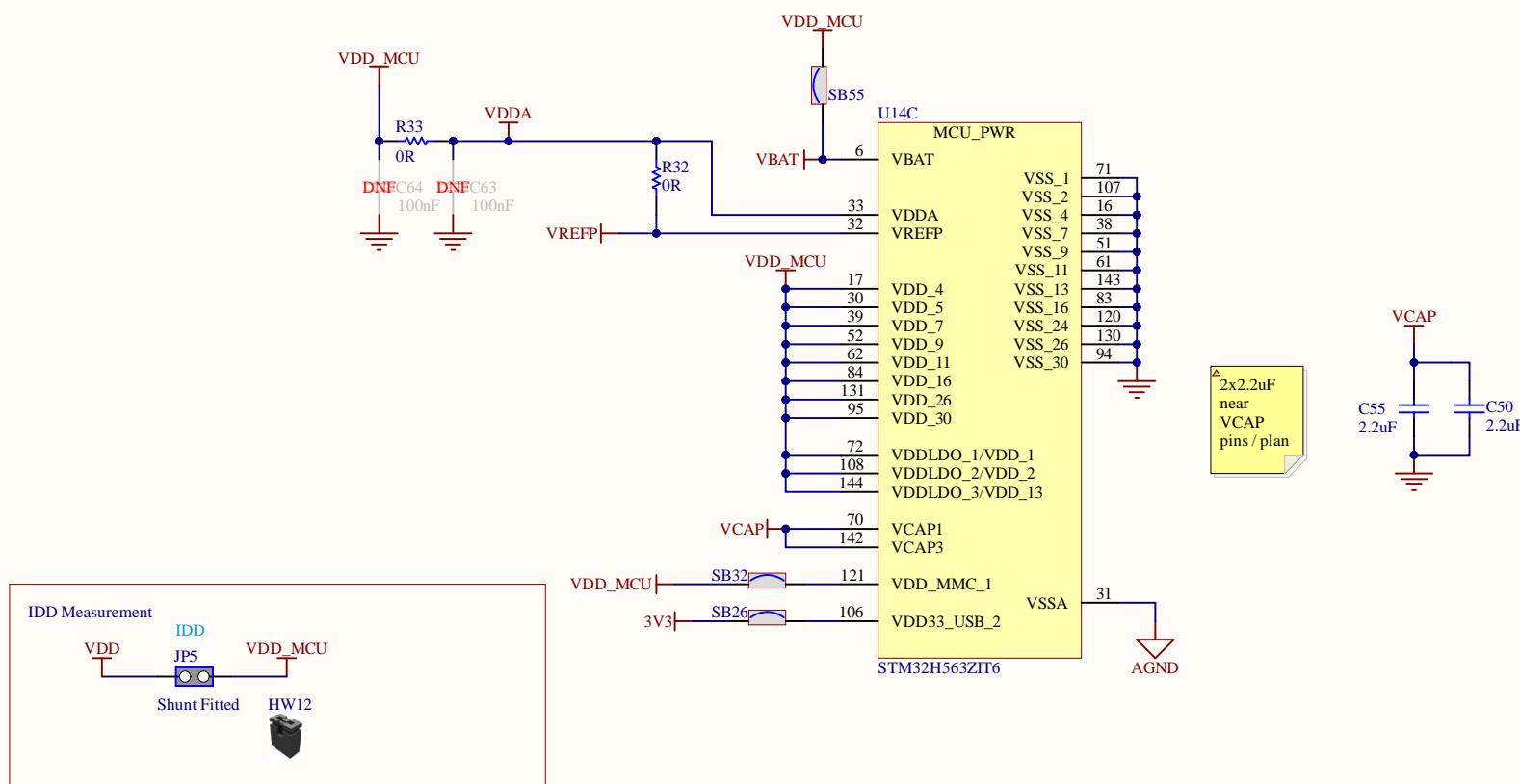
## EXTERNAL HSE CLK (OPTIONAL)

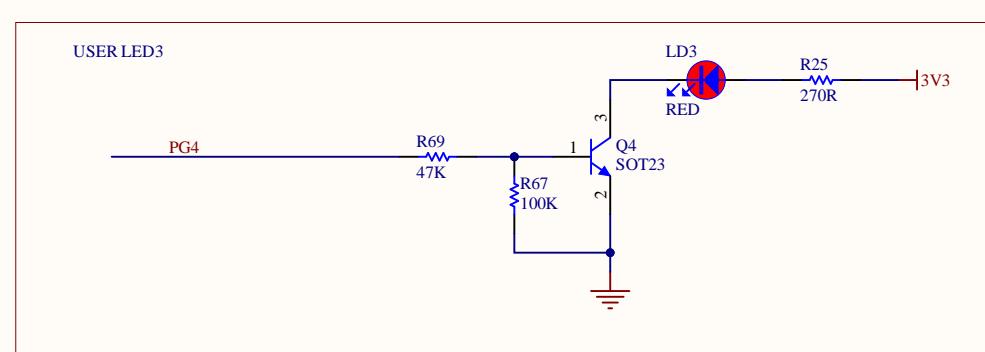
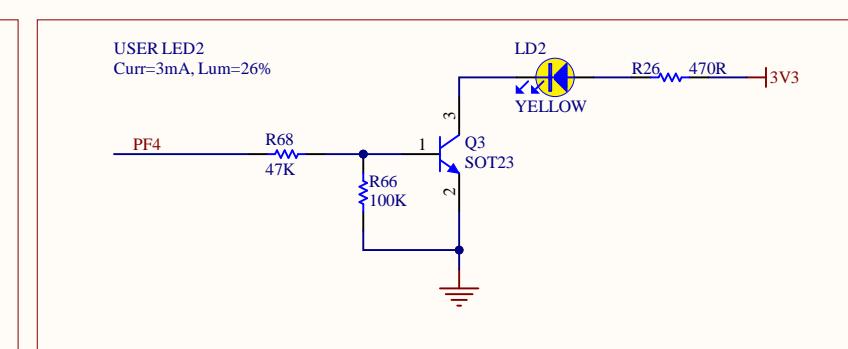
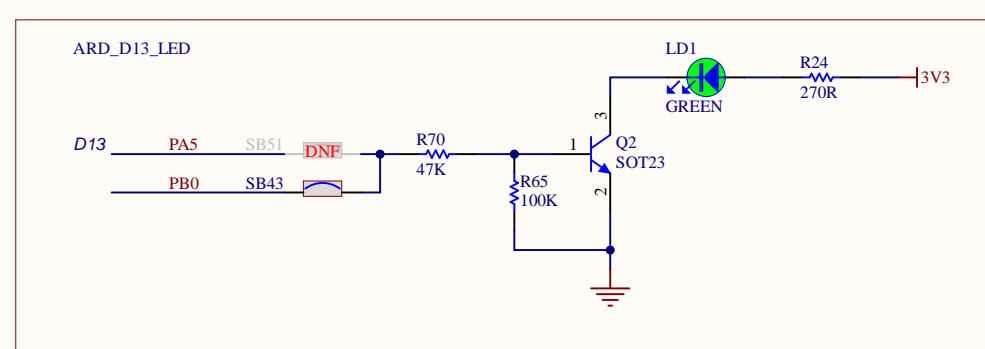
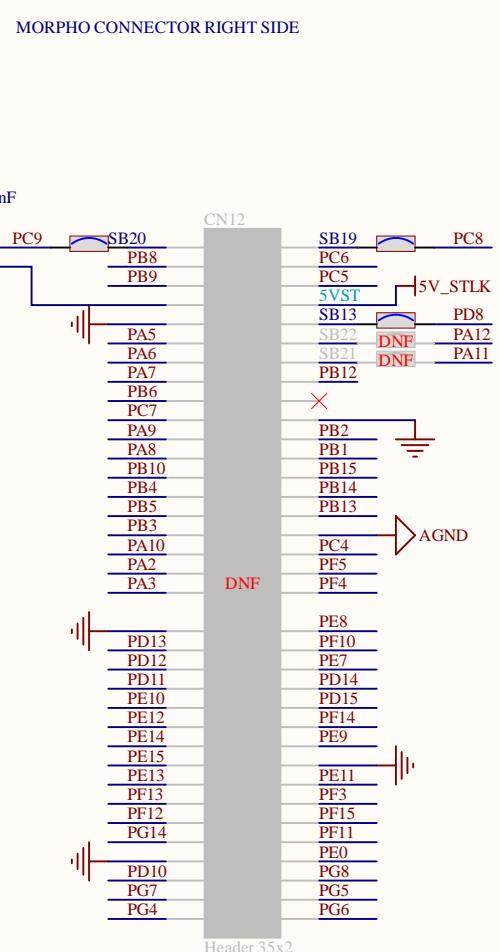
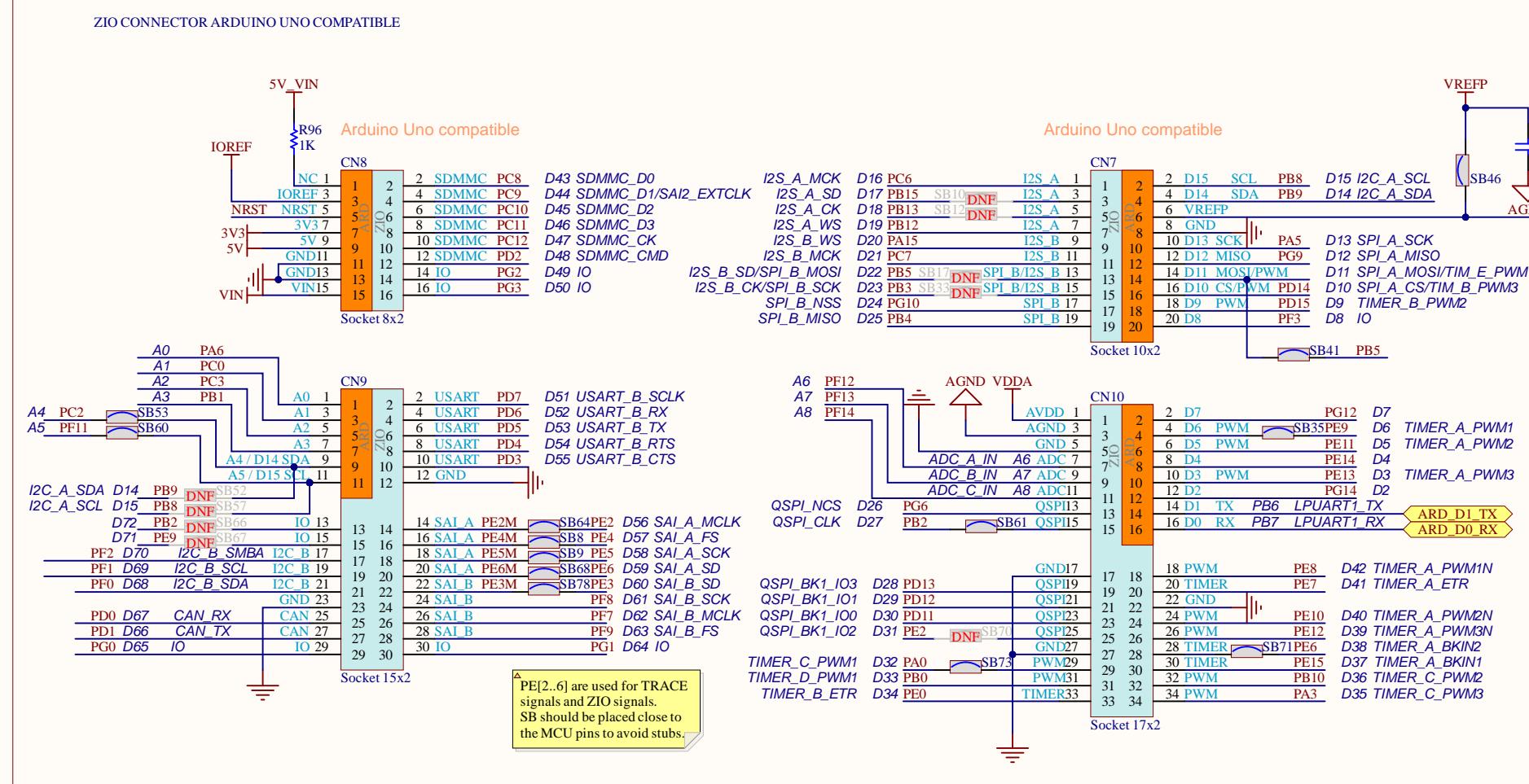
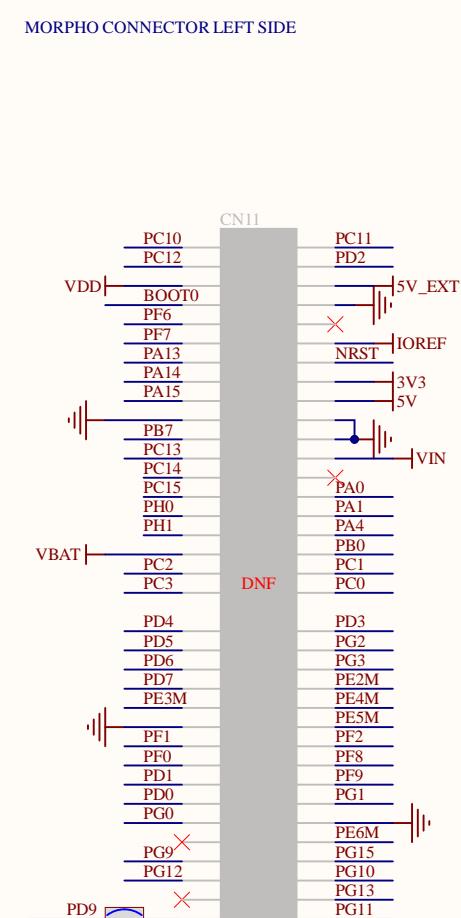
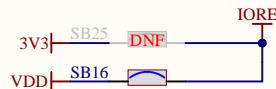


## EXTERNAL LSE CLK

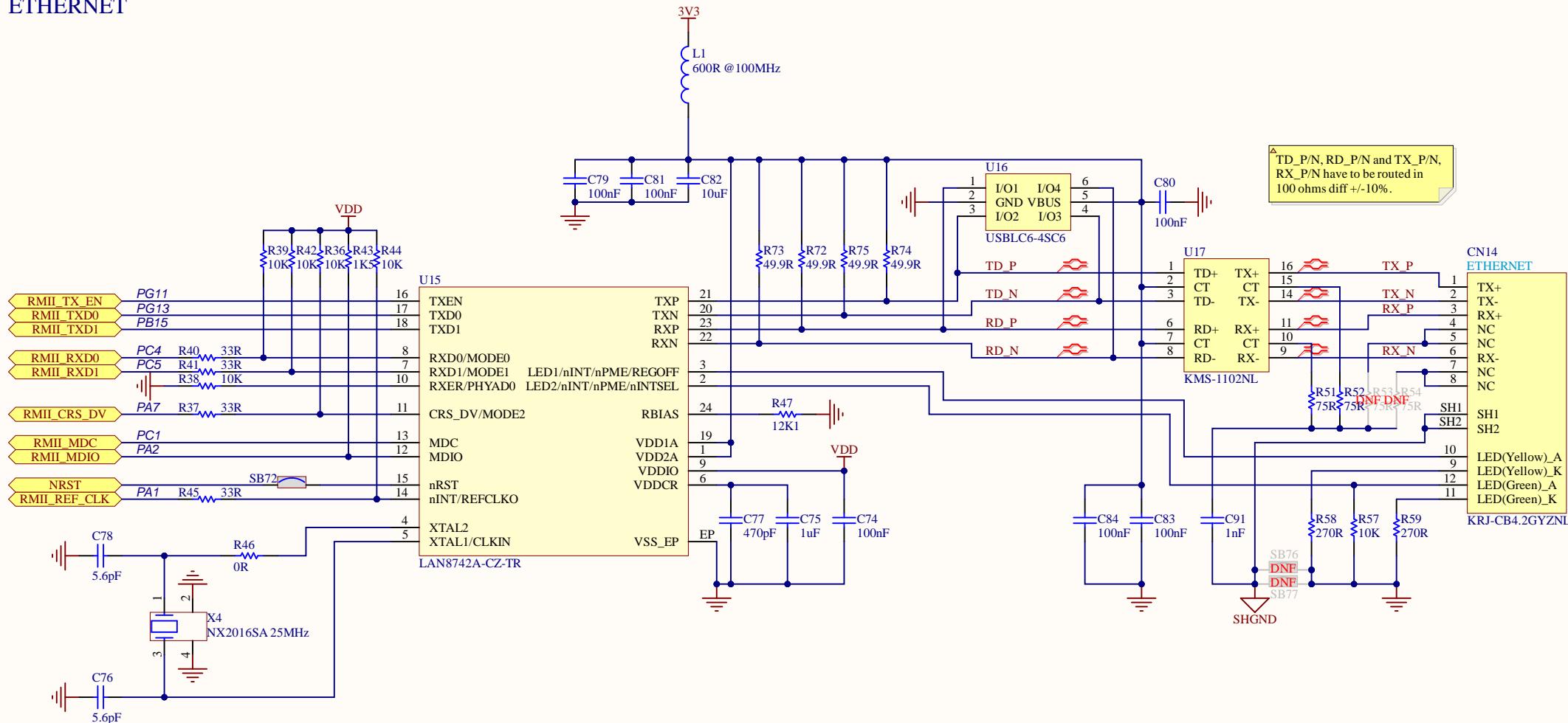


## MCU POWER SUPPLIES



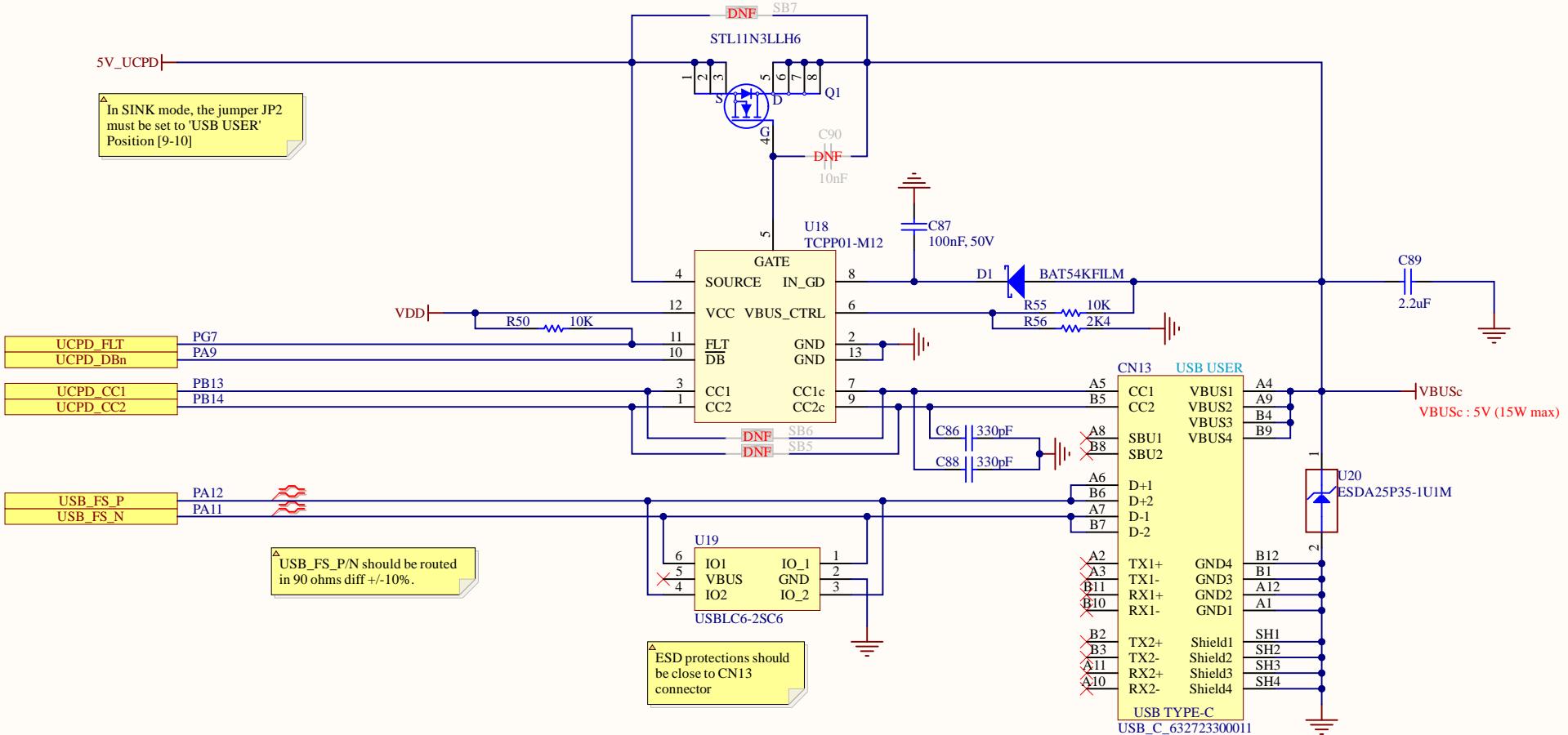


# ETHERNET

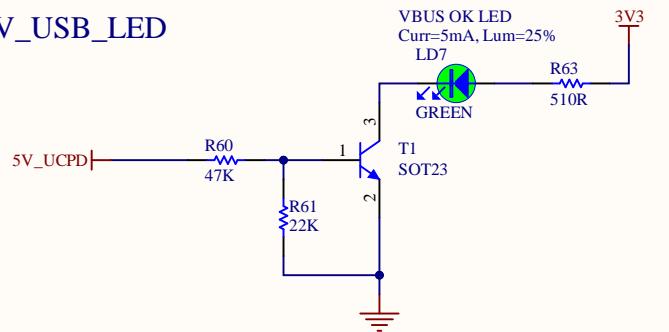


# USB\_TYPE\_C

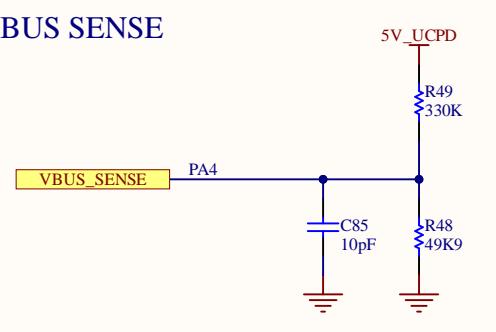
SINK only



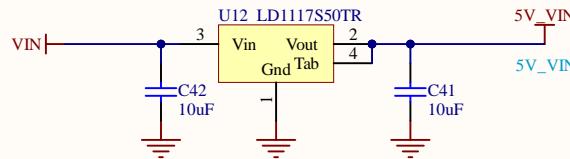
## 5V\_USB\_LED



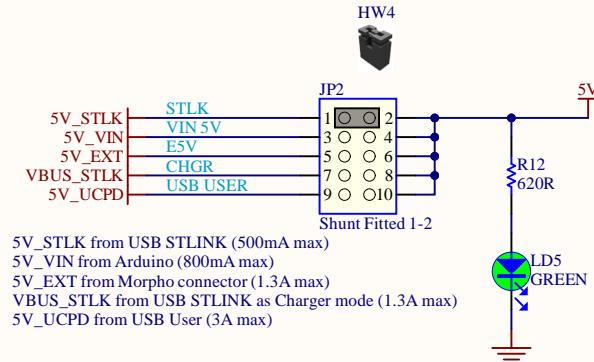
## VBUS SENSE



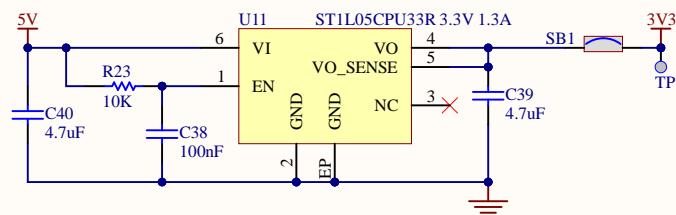
## VIN / 5V PWR



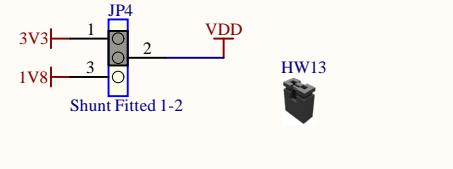
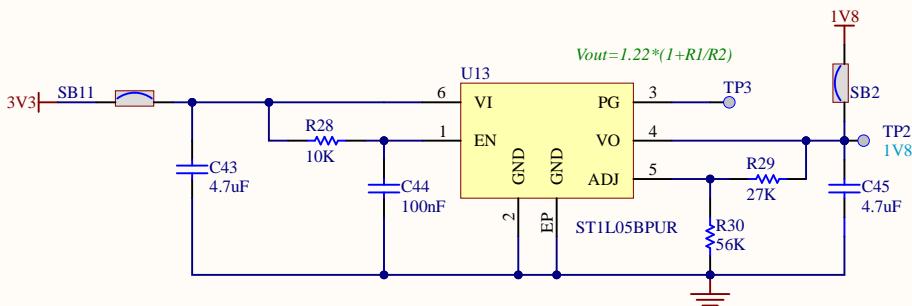
## 5V PWR SELECTION



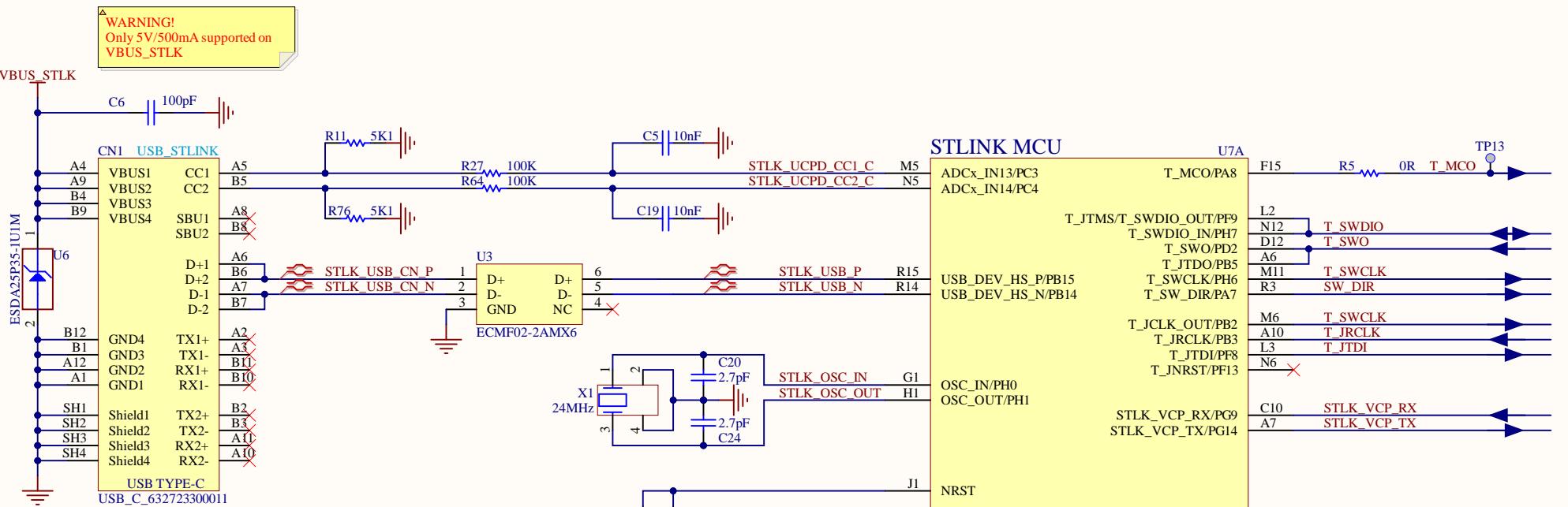
## 3V3 PWR



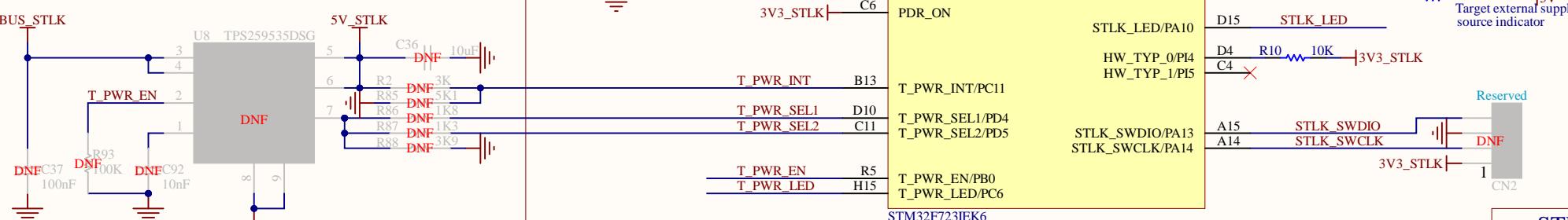
## 1V8 PWR



## ST-LINK USB CONNECTOR



## 5V ST-LINK PROTECTION

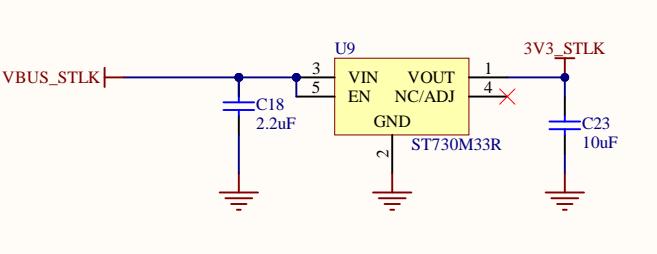


## 5V\_STLK OVERCURRENT PROTECTION MANAGEMENT

	T_PWR_SEL2/PD5	T_PWR_SEL1/PD4
PowerDefault.SNK (current limit: 550mA)	Hi-Z	Hi-Z
Power1.5.SNK (current limit: 1.66A)	Hi-Z	0
Power3.0.SNK (current limit: 3.2A)	0	0

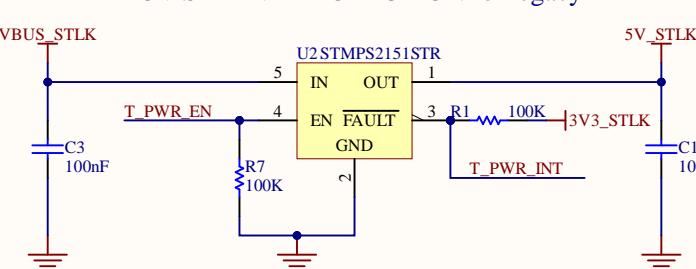
Hi-Z = IO set in high impedance

## ST-LINK POWER (3V3/300mA)

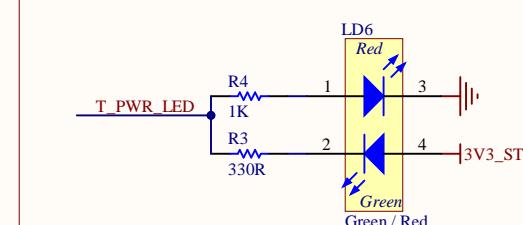


STMPS2151STR is backup of the TPS259535DSG

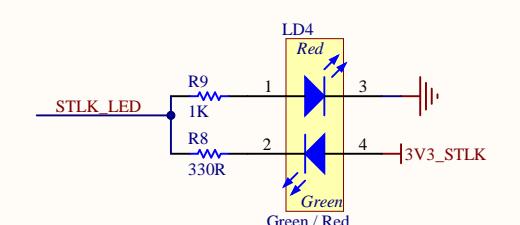
## 5V ST-LINK PROTECTION for legacy



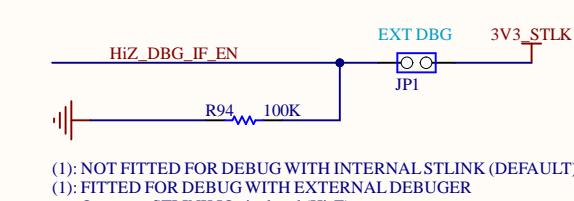
## LED POWER STATUS



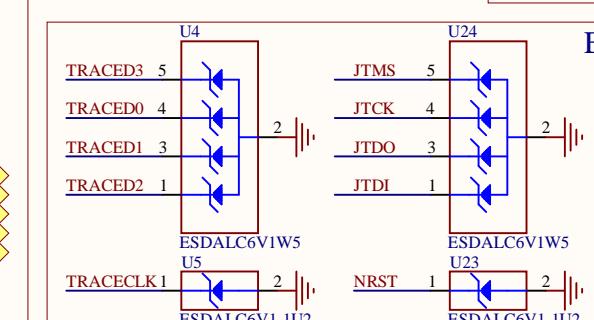
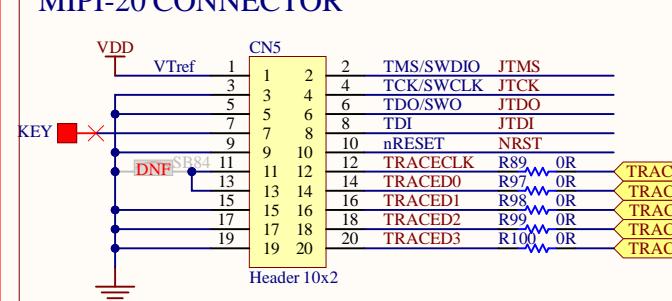
## LED STLINK



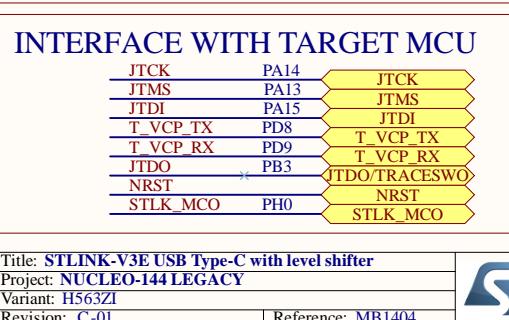
## EXTERNAL DEBUGGER SELECTION



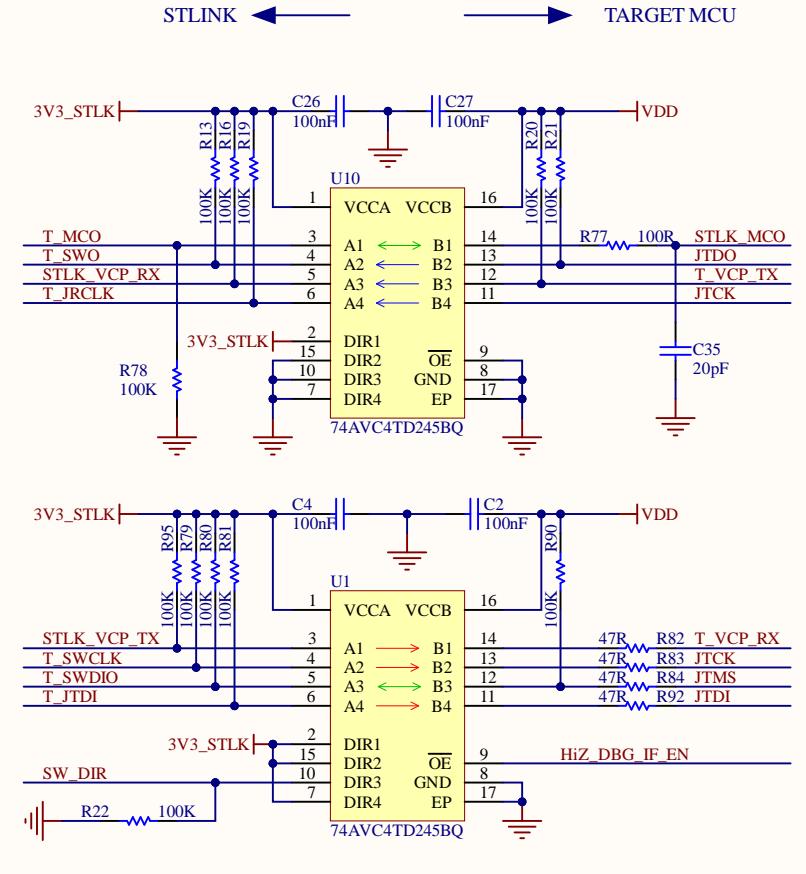
## MIPI-20 CONNECTOR



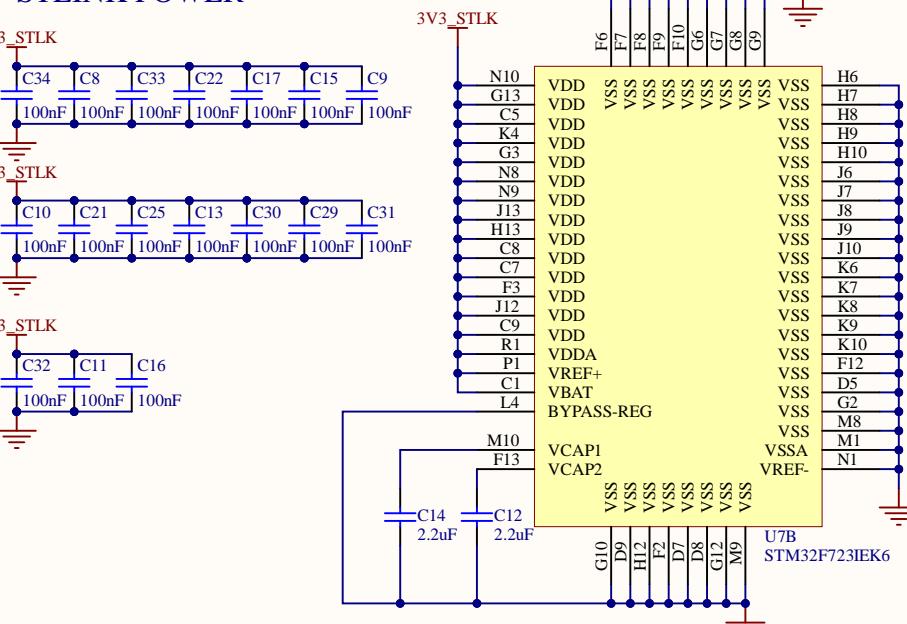
## ESD PROTECTIONS

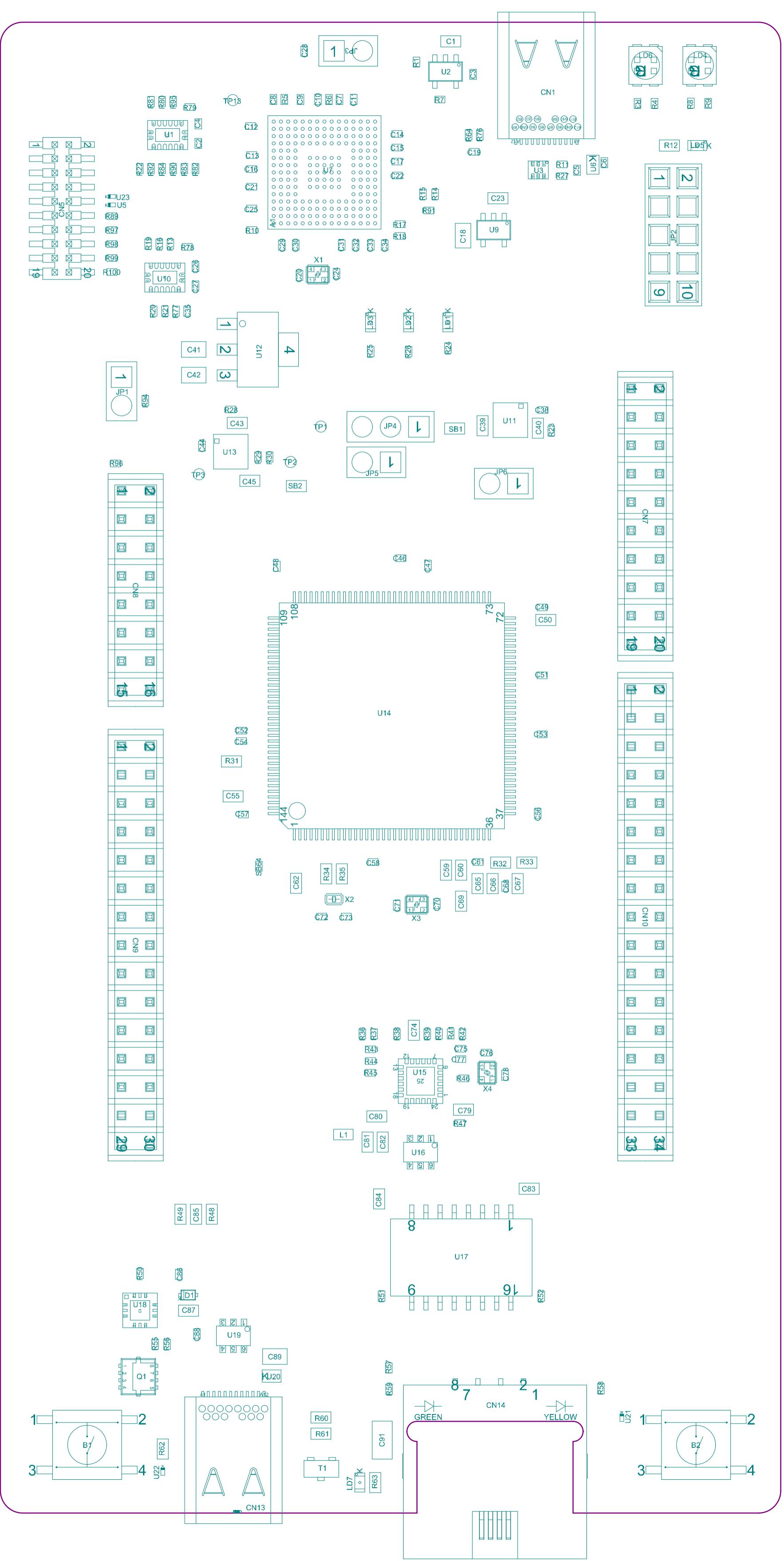


## VOLTAGE LEVEL SHIFTER



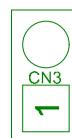
## STLINK POWER







1



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SB11

SB13

SB14

SB24

SB18

SB29

SB30

SB19

SB20

SB16

SB26

SB31

SB32

SB34

SB37

SB39

SB41

SB42

SB43

SB46

SB47

SB49

SB55  
SB56  
SB57  
SB58  
SB59  
SB60

R71

+5VDC

SB61

SB63

SB69

SB72

SB73

R72  
R73  
R74  
R75

SB74



1

SB75



1