

STM32H7S78-DK

MB1736

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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.

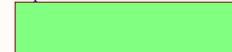
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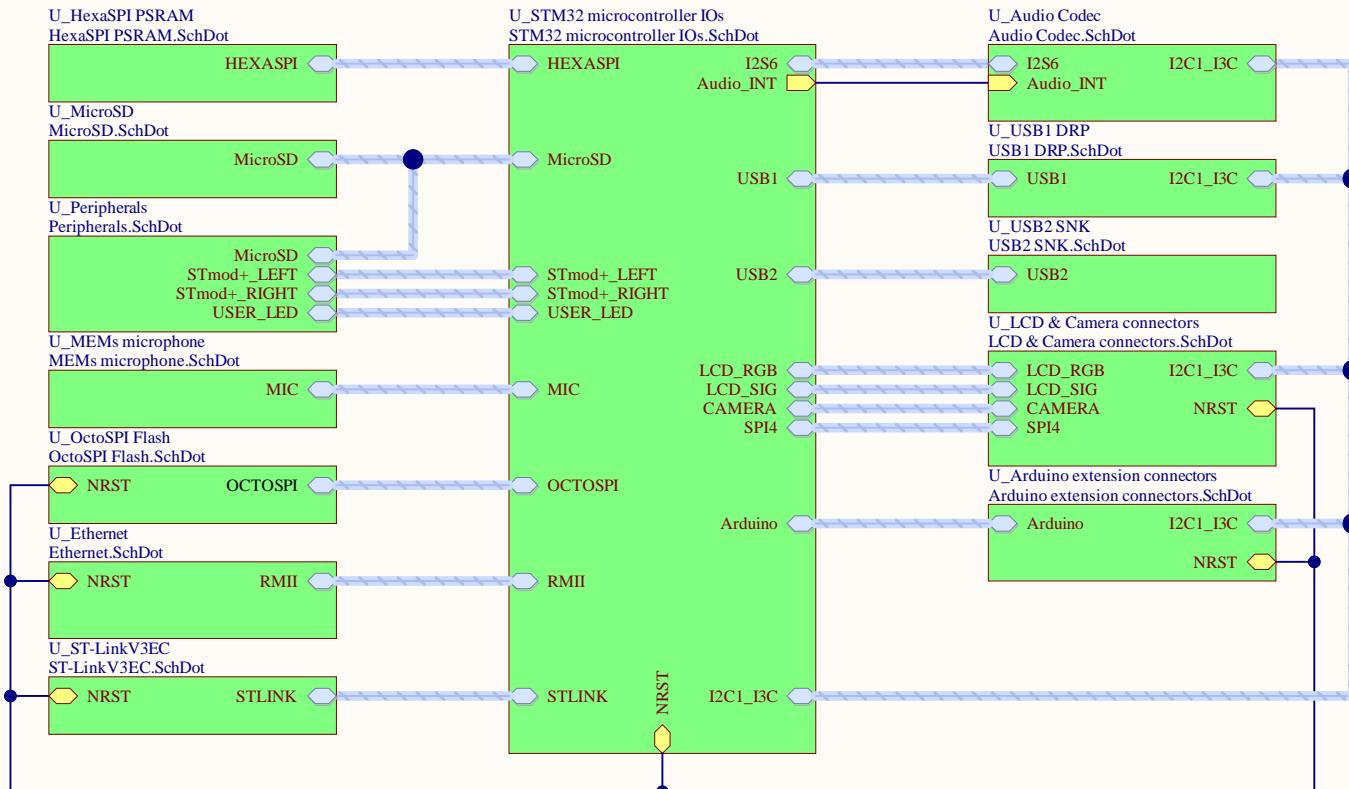
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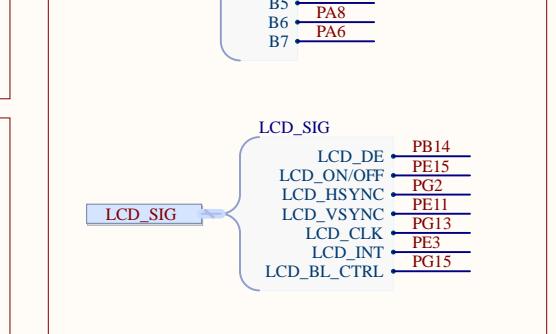
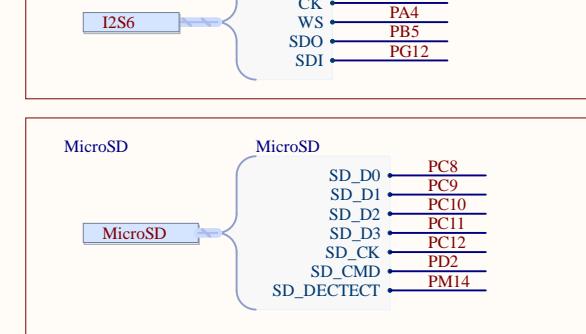
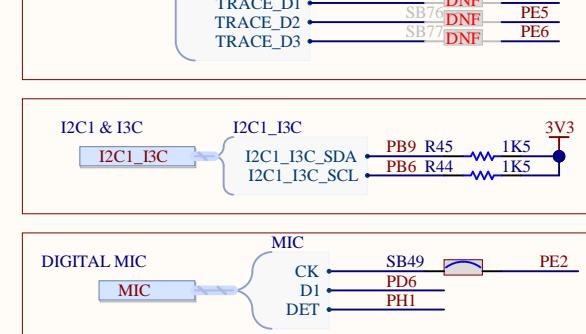
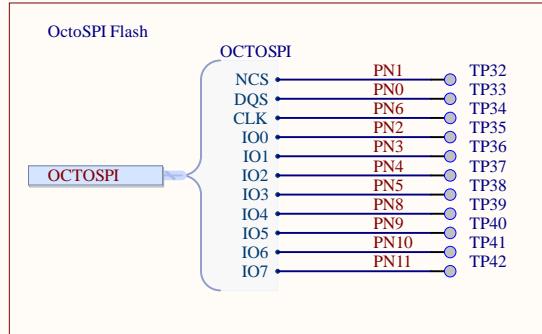
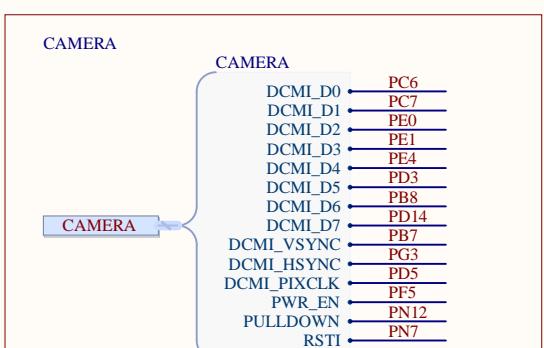
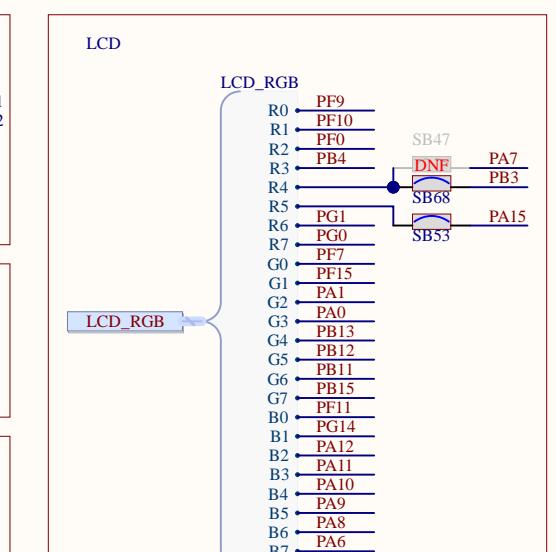
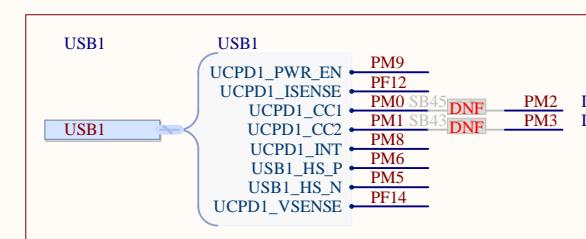
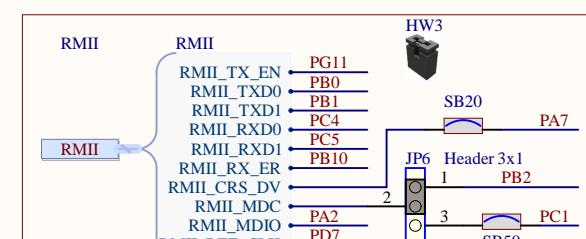
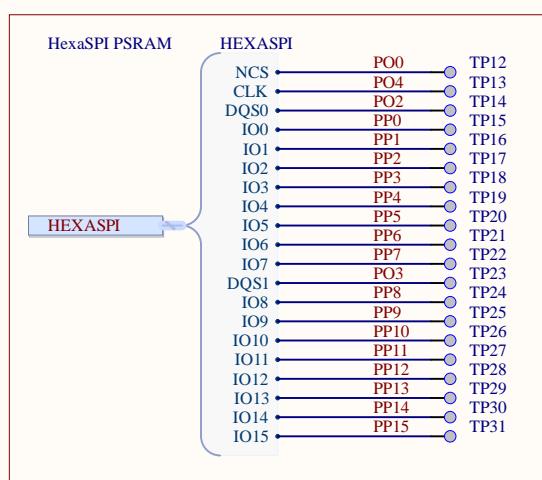
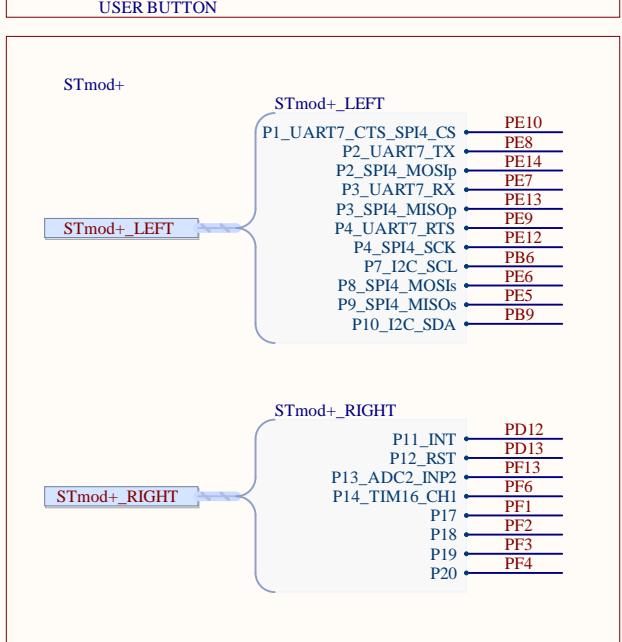
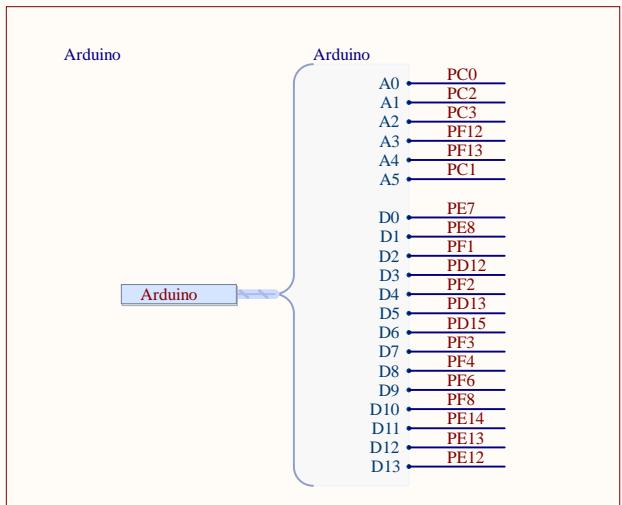
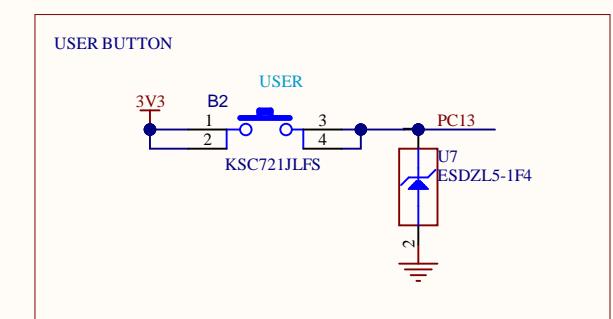
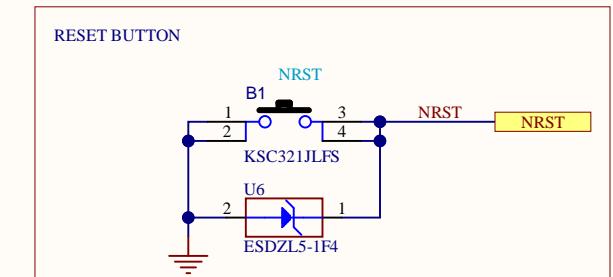
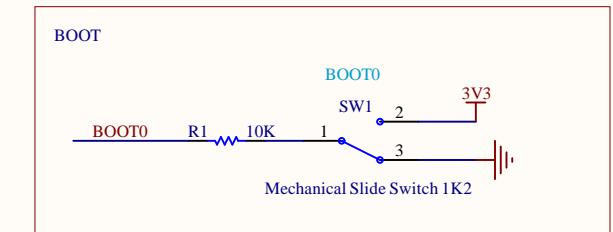
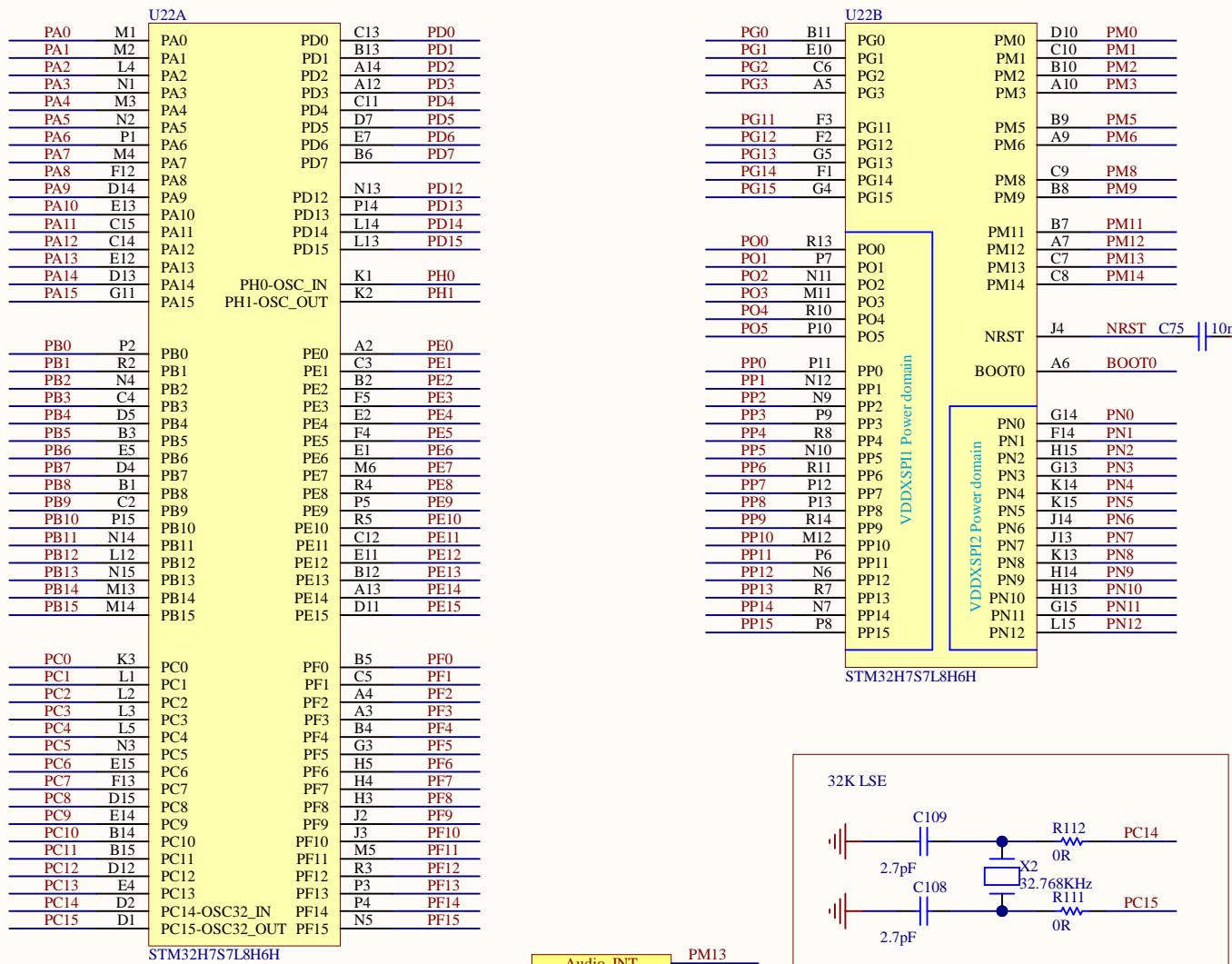
U_Top
Top.SchDot



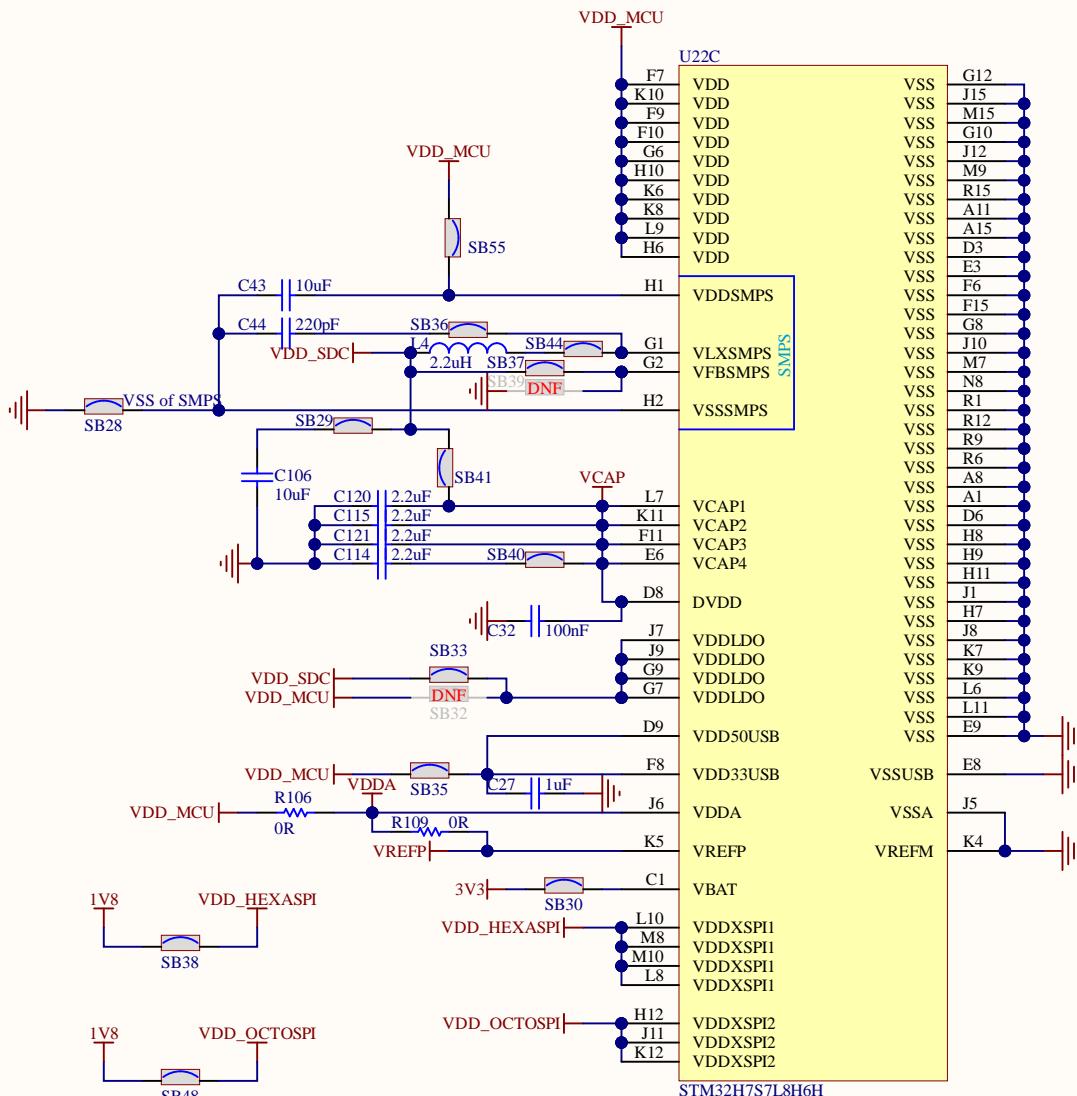
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Project: STM32H7S78-DK		
Variant: H7S7L8		
Revision: D-01	Reference: MB1736	
Size: A4	Date: 11-JAN-24	Sheet: 1 of 18



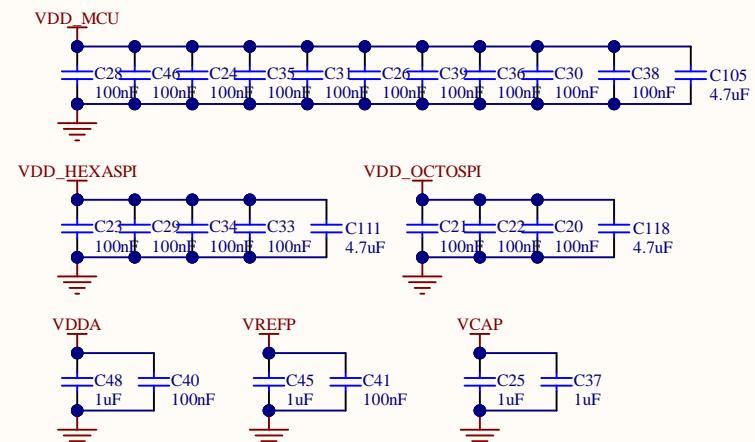
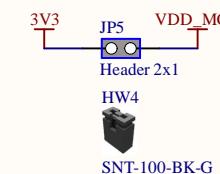


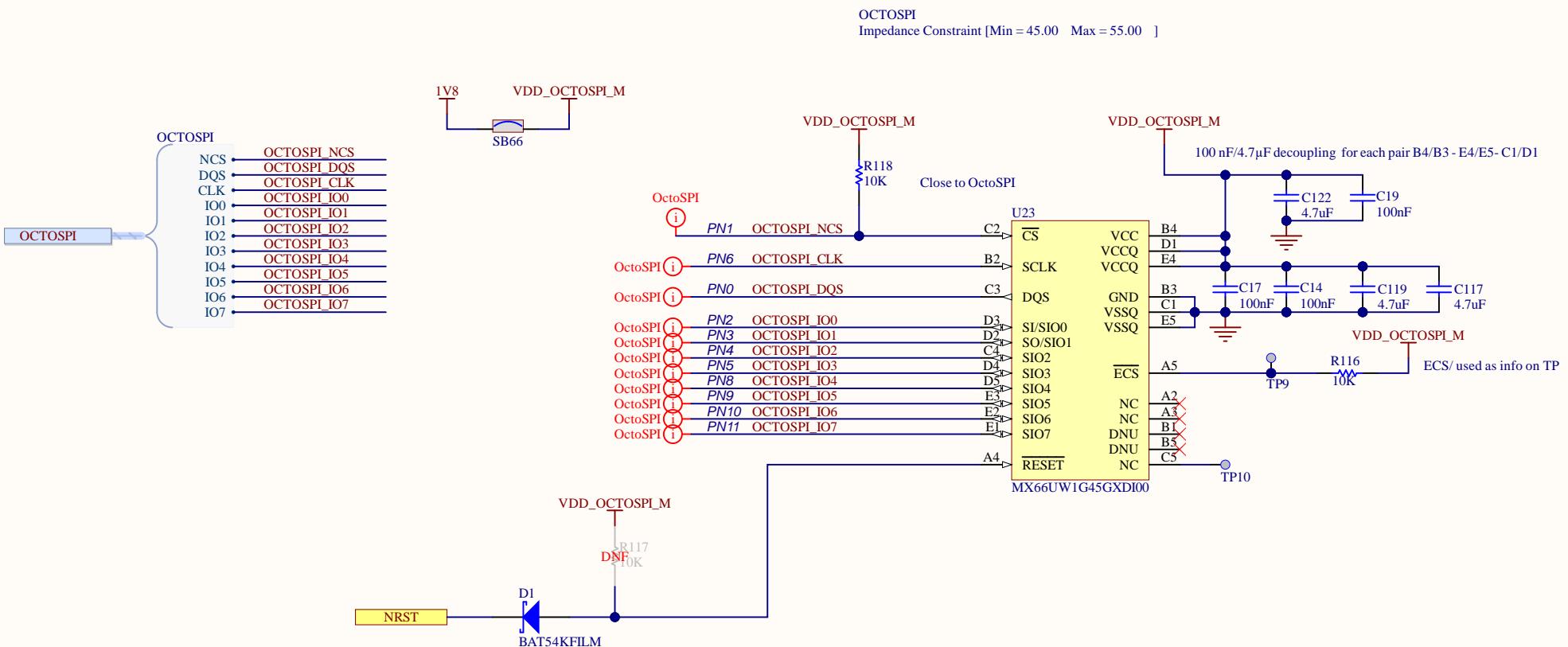


Title: STM32 microcontroller I/Os	
Project: STM32H7S78-DK	
Variant: H7S7L8	
Revision: D-01	Reference: MB1736
Size: A3	Date: 11-JAN-24
	Sheet: 3 of 18



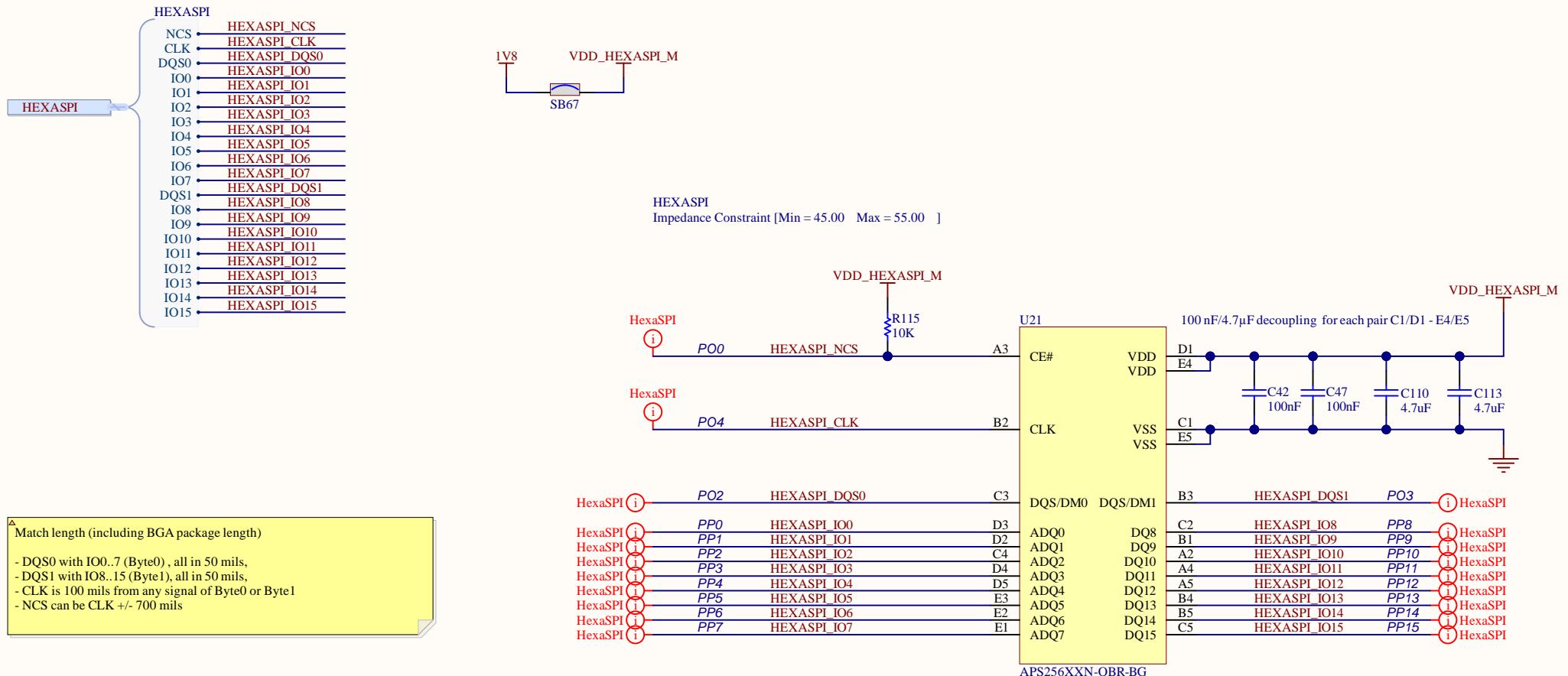
Power configurations:		
Mode	Mount	Removed
SMPS mode Default setting	SB29,SB33,SB36, SB37,SB40,SB41 SB44	SB32,SB39
LDO mode	SB32,SB39	SB29,SB33,SB36 SB37,SB40,SB41 SB44

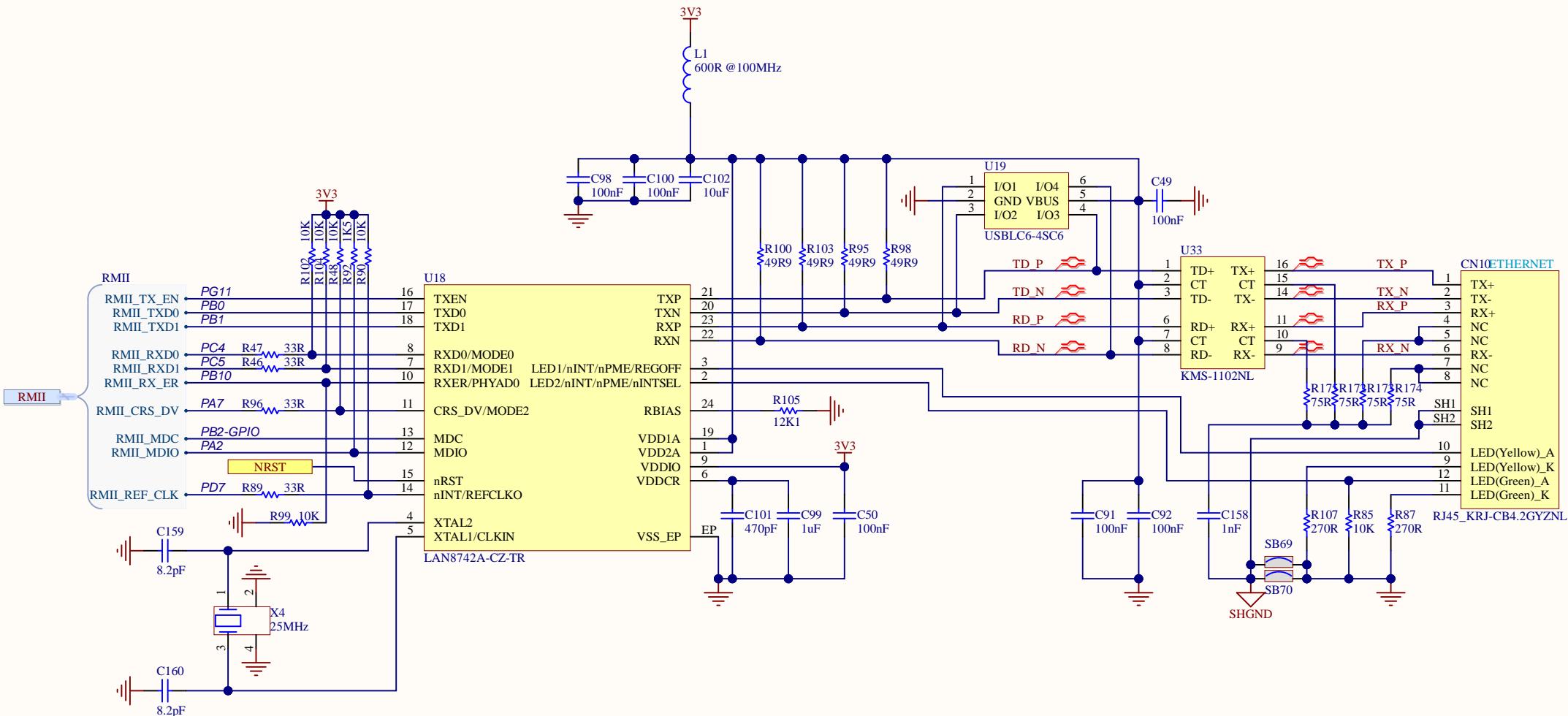




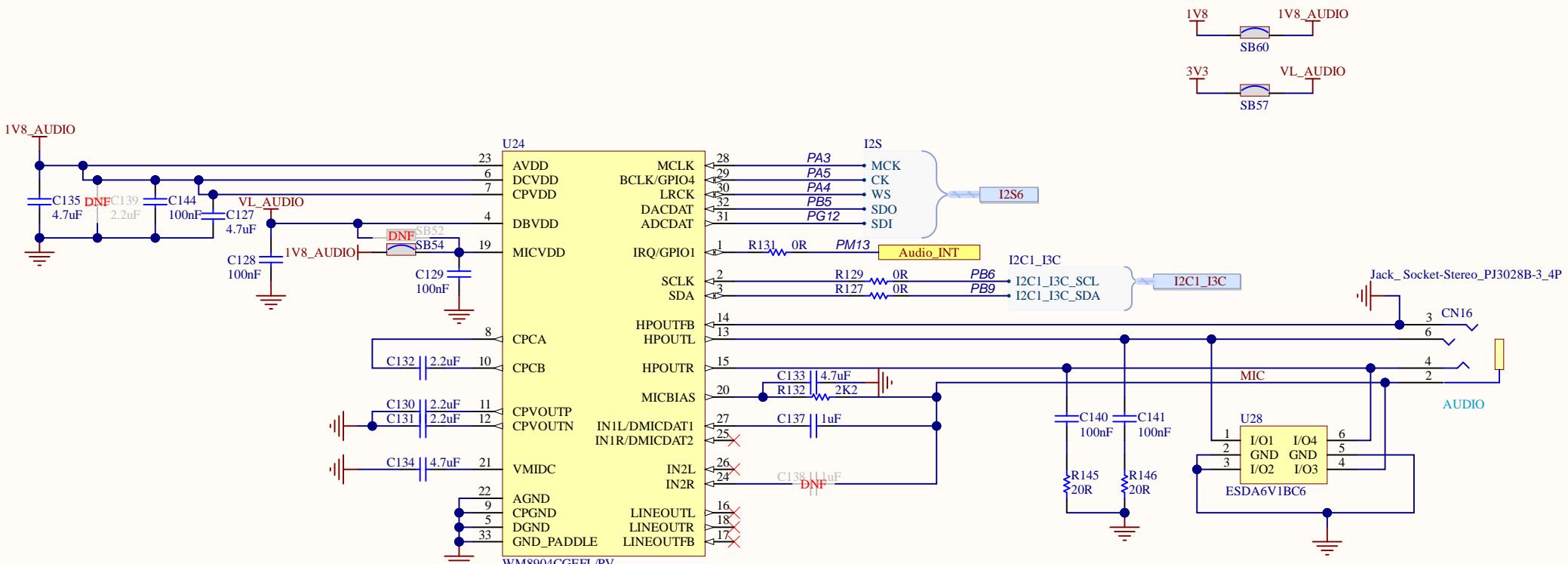
Length equalization (include BGA package length) :

- DQSO with IO0..7 (Byte0) , and CLK , all in 50 mils
- NCS length can be in the range of up to CLK length +/- 750 mils





Title: **Ethernet**
Project: **STM32H7S78-DK**
Variant: **H7S7L8**
Revision: **D-01** Reference: **MB1736**
Size: **A4** Date: **11-JAN-24** Sheet: **7** of **18**

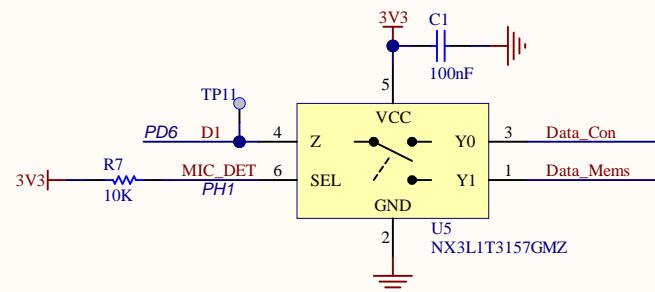


I2C address of WM8904 :
Read 0x35 / Write 0x34

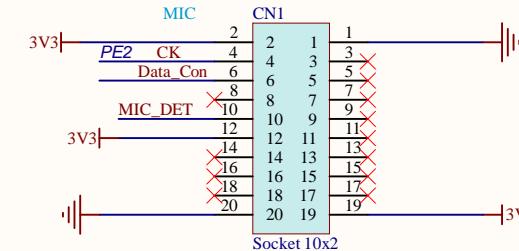
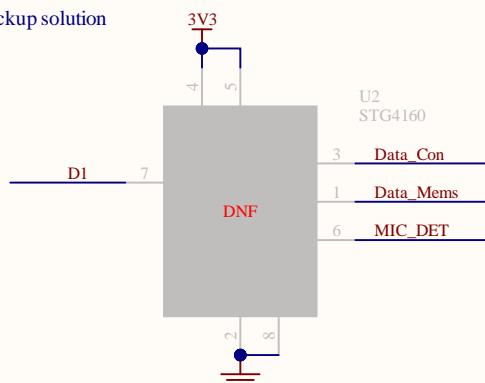
AUDIO Stereo Out with MIC

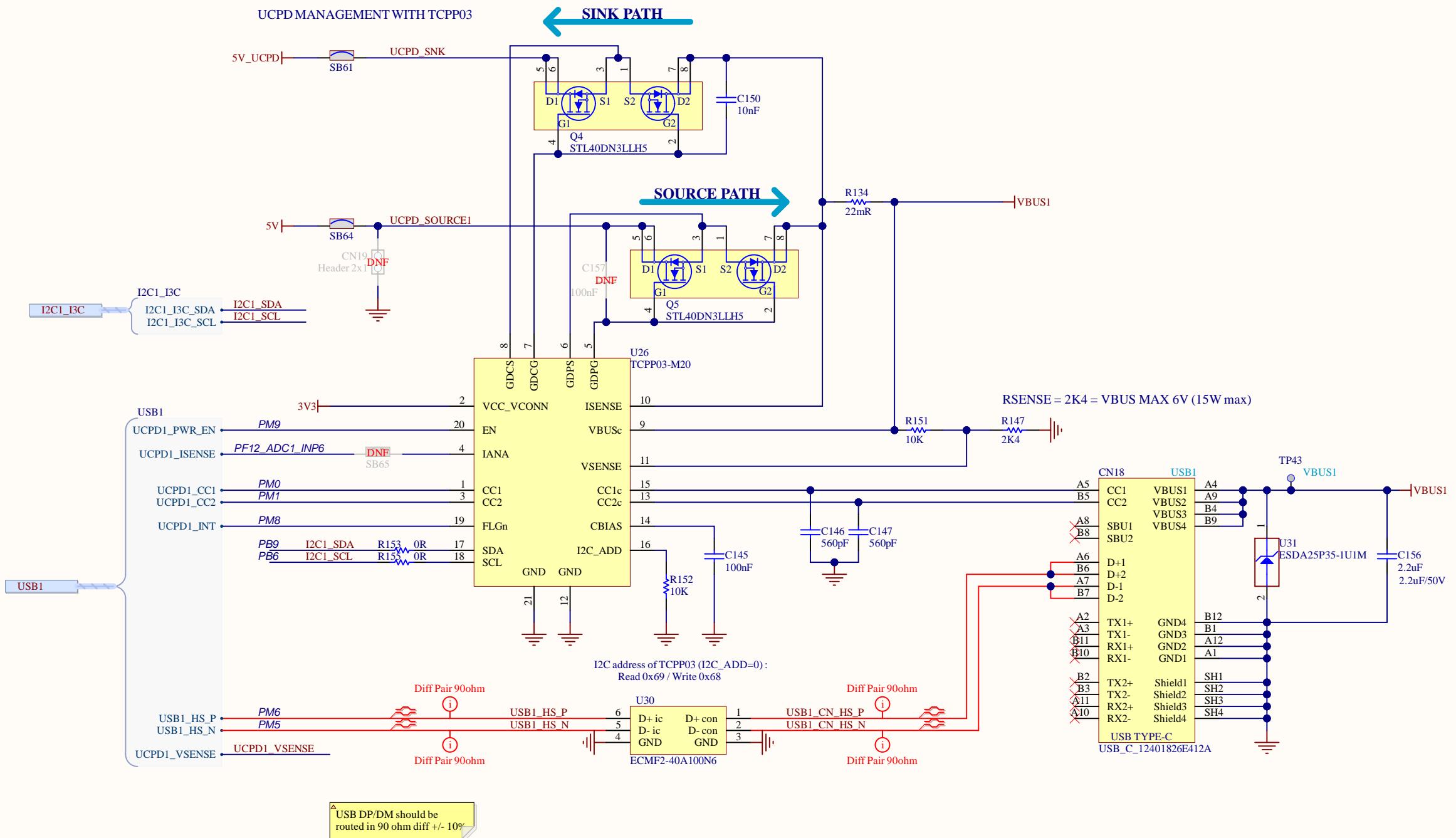


Auto detect MIC board on connector.
When MIC board plugged, bypass Data from on board MIC.

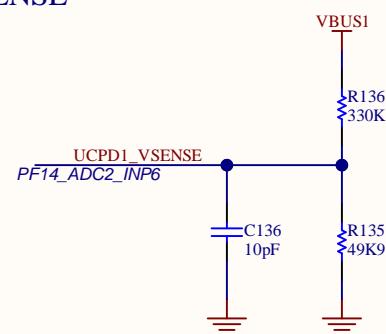


Backup solution

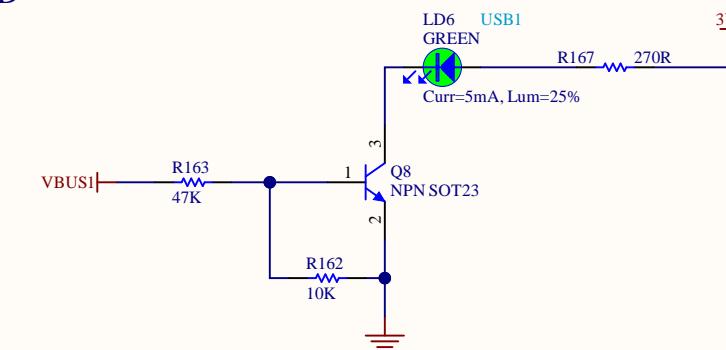




VBUS SENSE



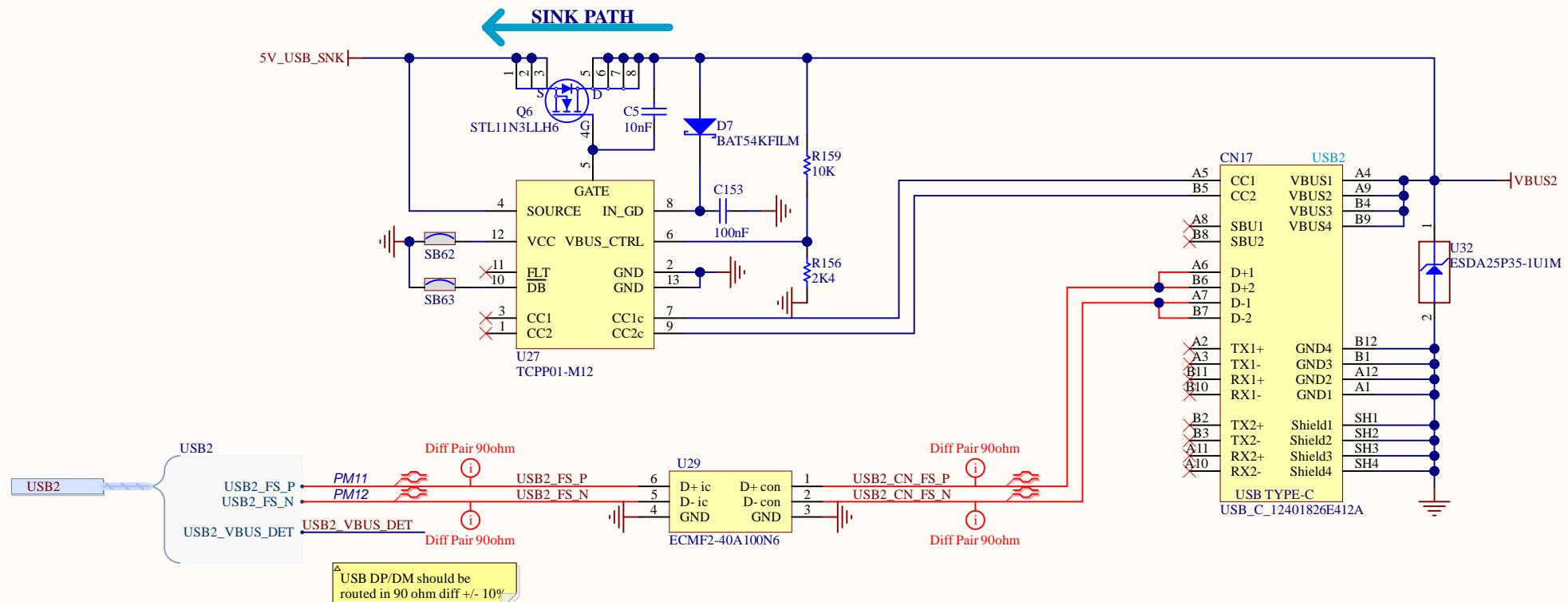
5V_USB_LED



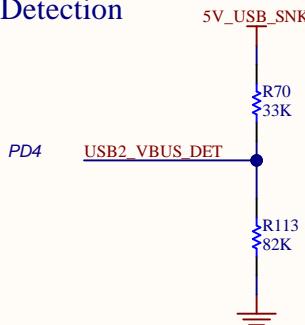
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Project: STM32H7S78-DK
Variant: H7S7L8
Revision: D-01
Reference: MB1736
Size: A3
Date: 11-JAN-24
Sheet: 10 of 18



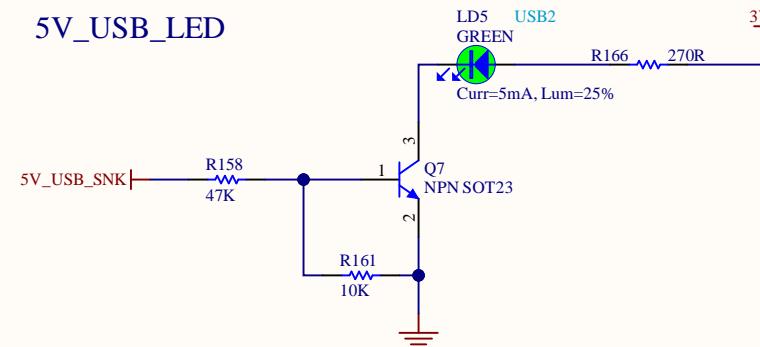
USB Type-C MANAGEMENT WITH TCPP01



VBUS Detection



5V_USB_LED



Title: **USB2 SNK**

Project: **STM32H7S78-DK**

Variant: **H7S7L8**

Revision: **D-01**

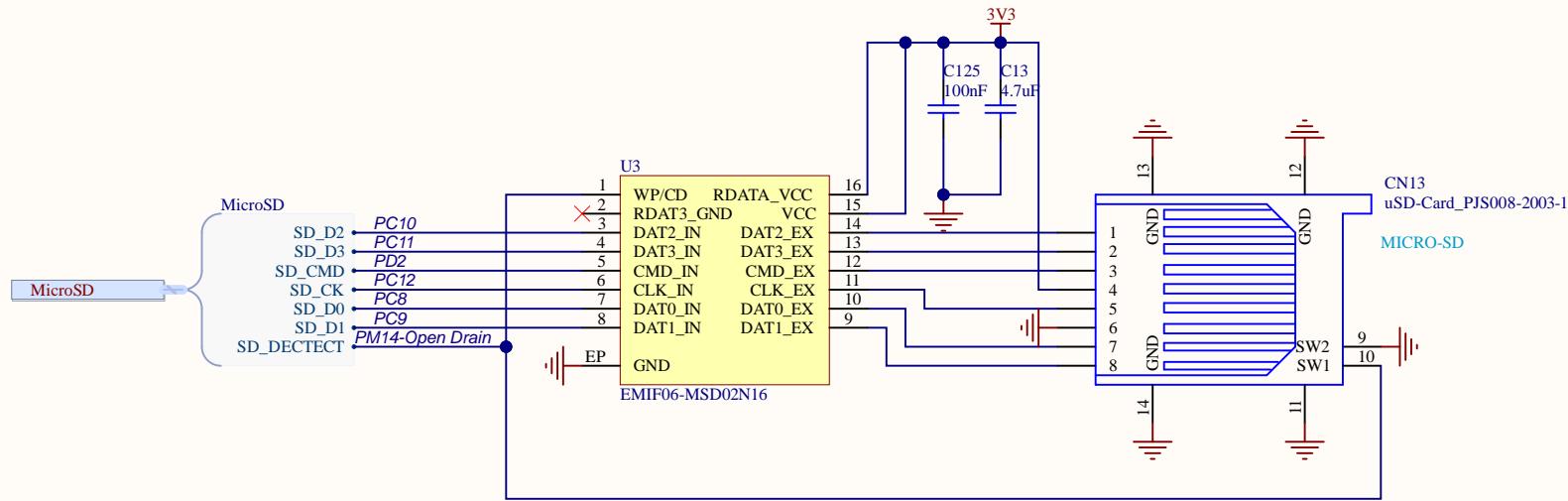
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Size: **A4**

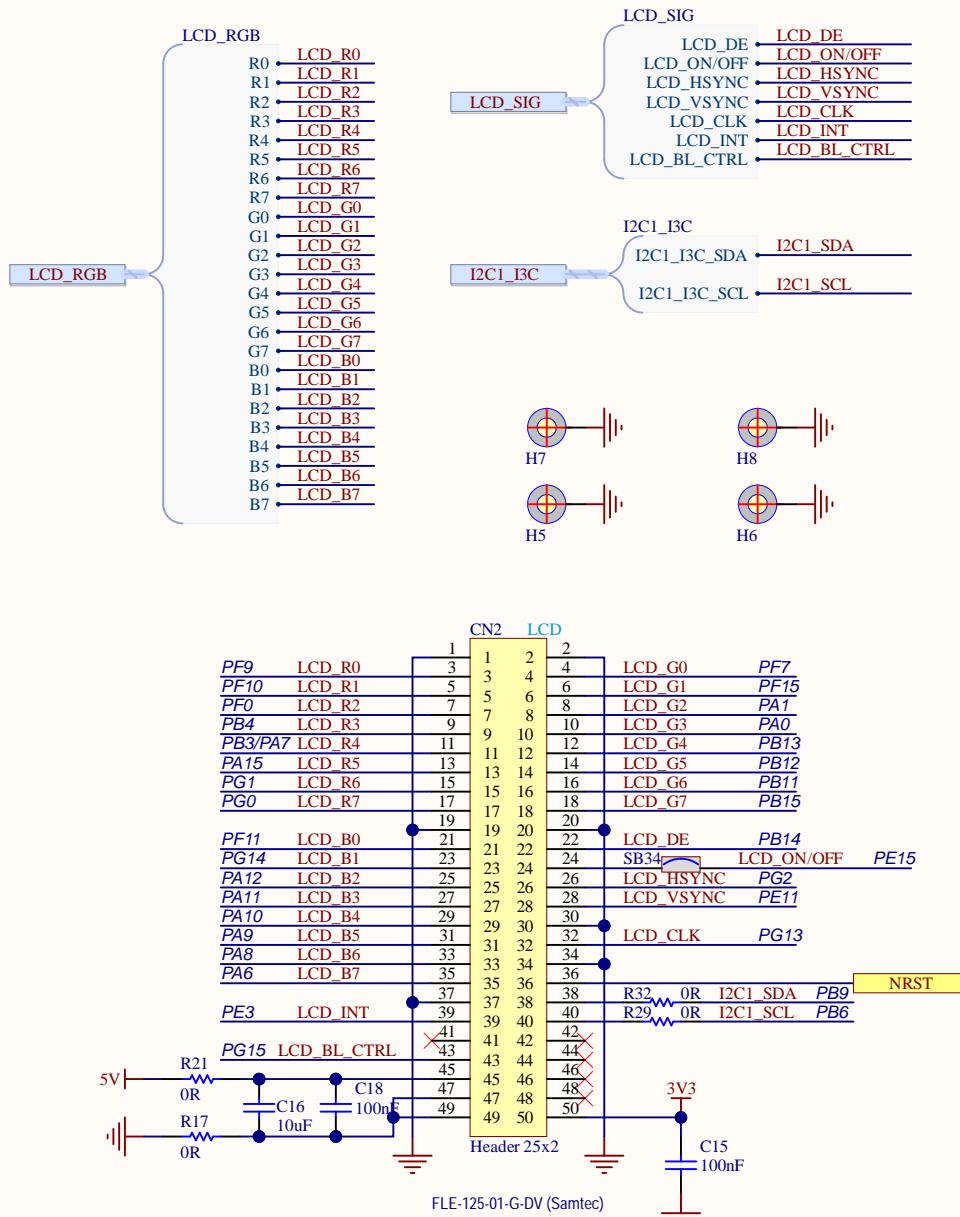
Date: **11-JAN-24**

Sheet: **11 of 18**

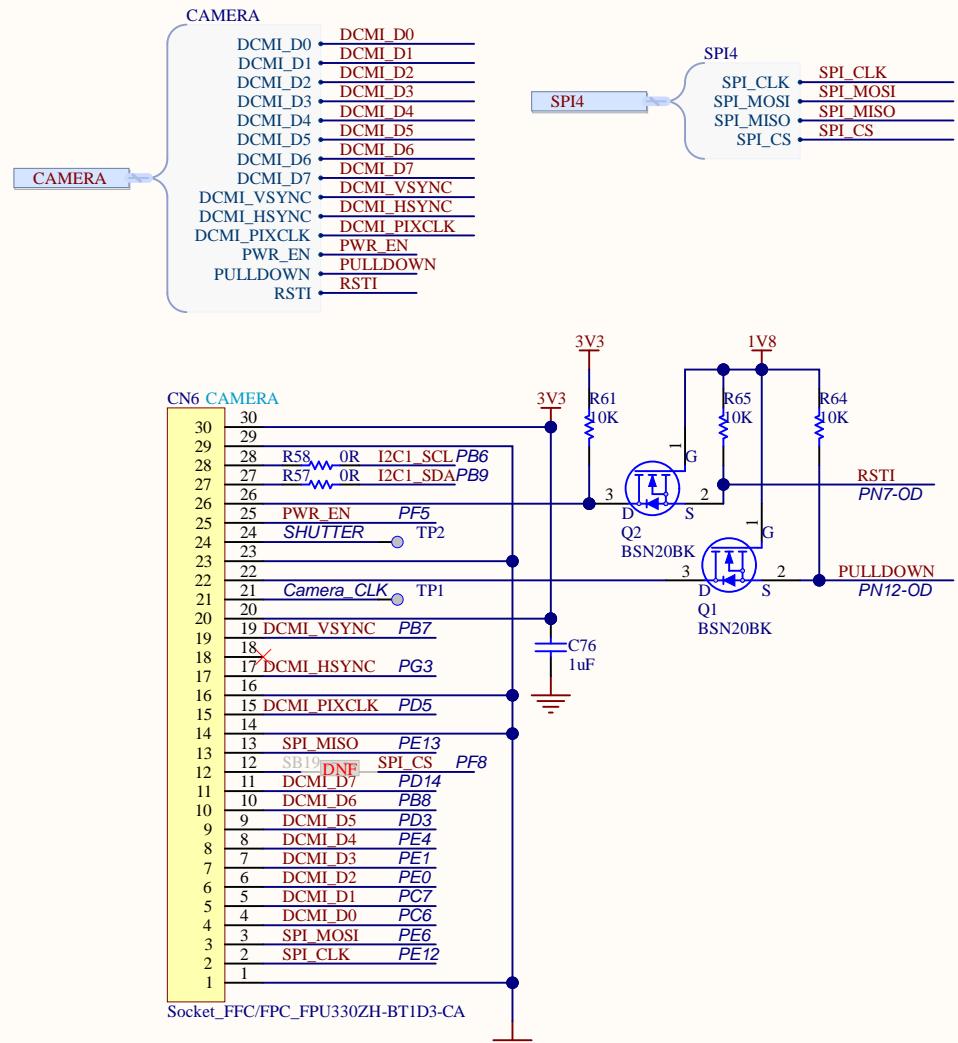


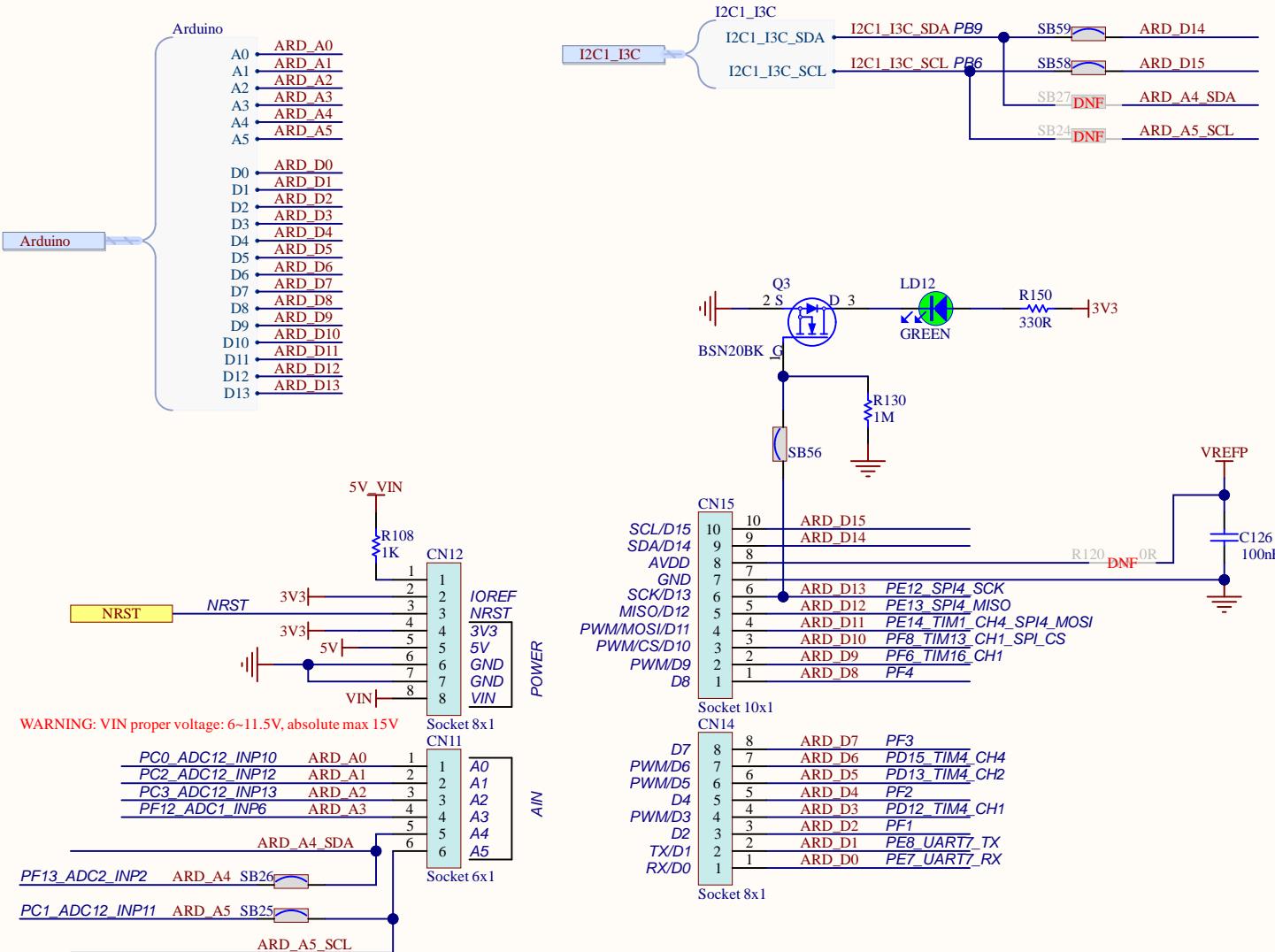


LCD Connector

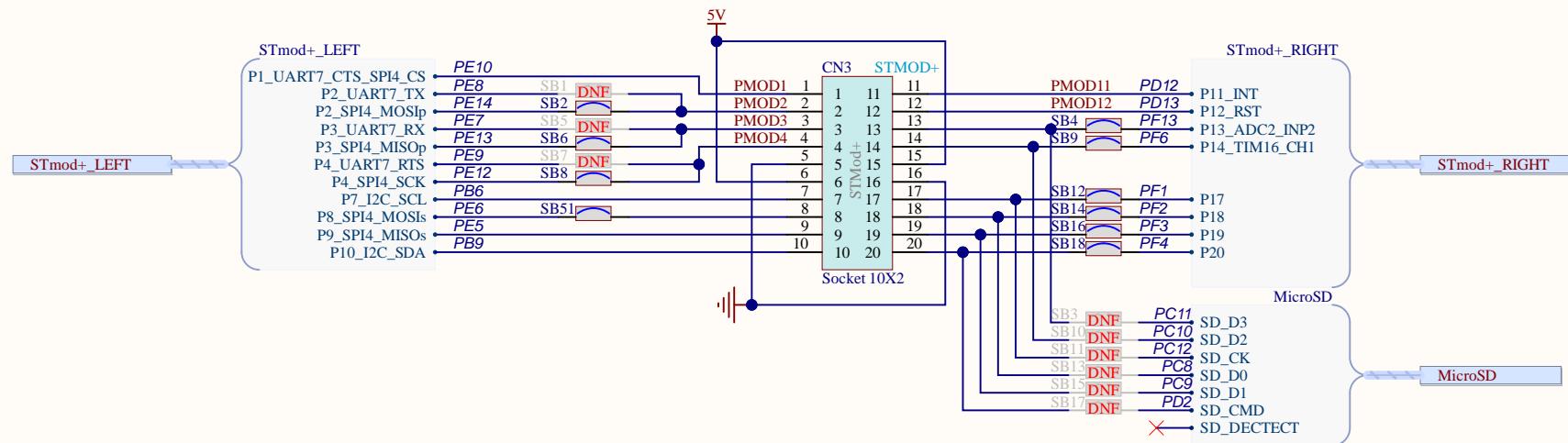


Camera Connector

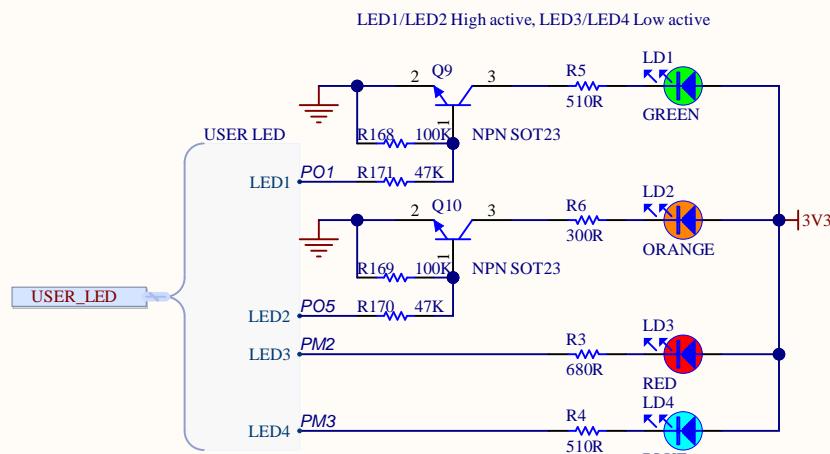




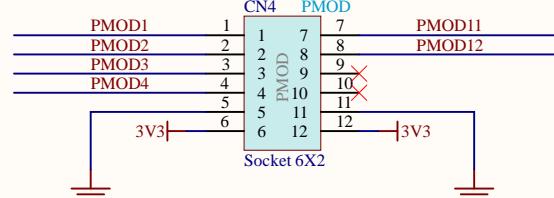
STmod+ Connector



USER LED



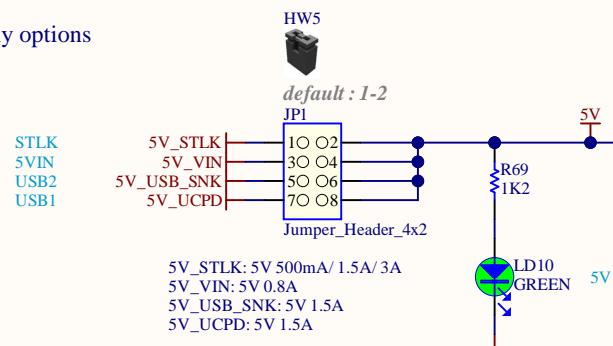
PMOD



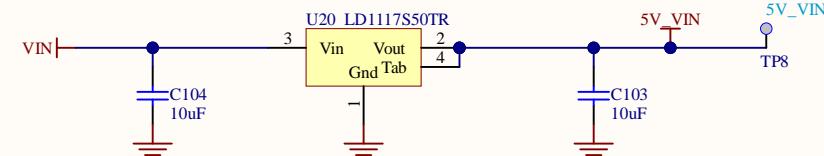
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Project:	STM32H7S78-DK
Variant:	H7S7L8
Revision:	D-01
Size: A4	Date: 11-JAN-24
Reference: MB1736	Sheet: 15 of 18



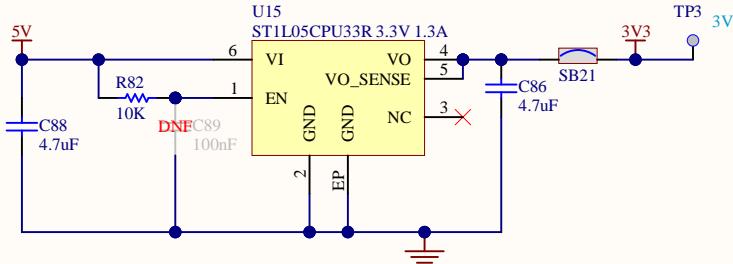
5V Power Supply options



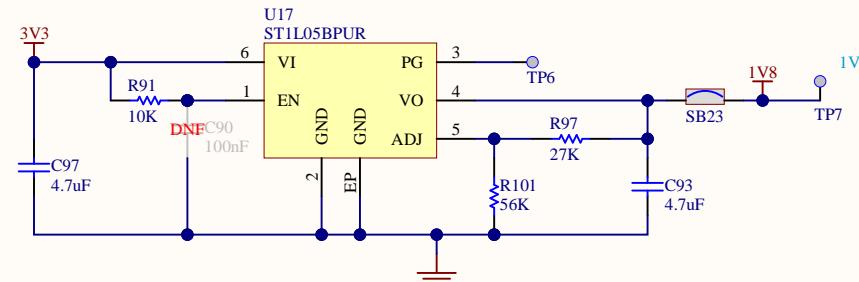
5V External Supply

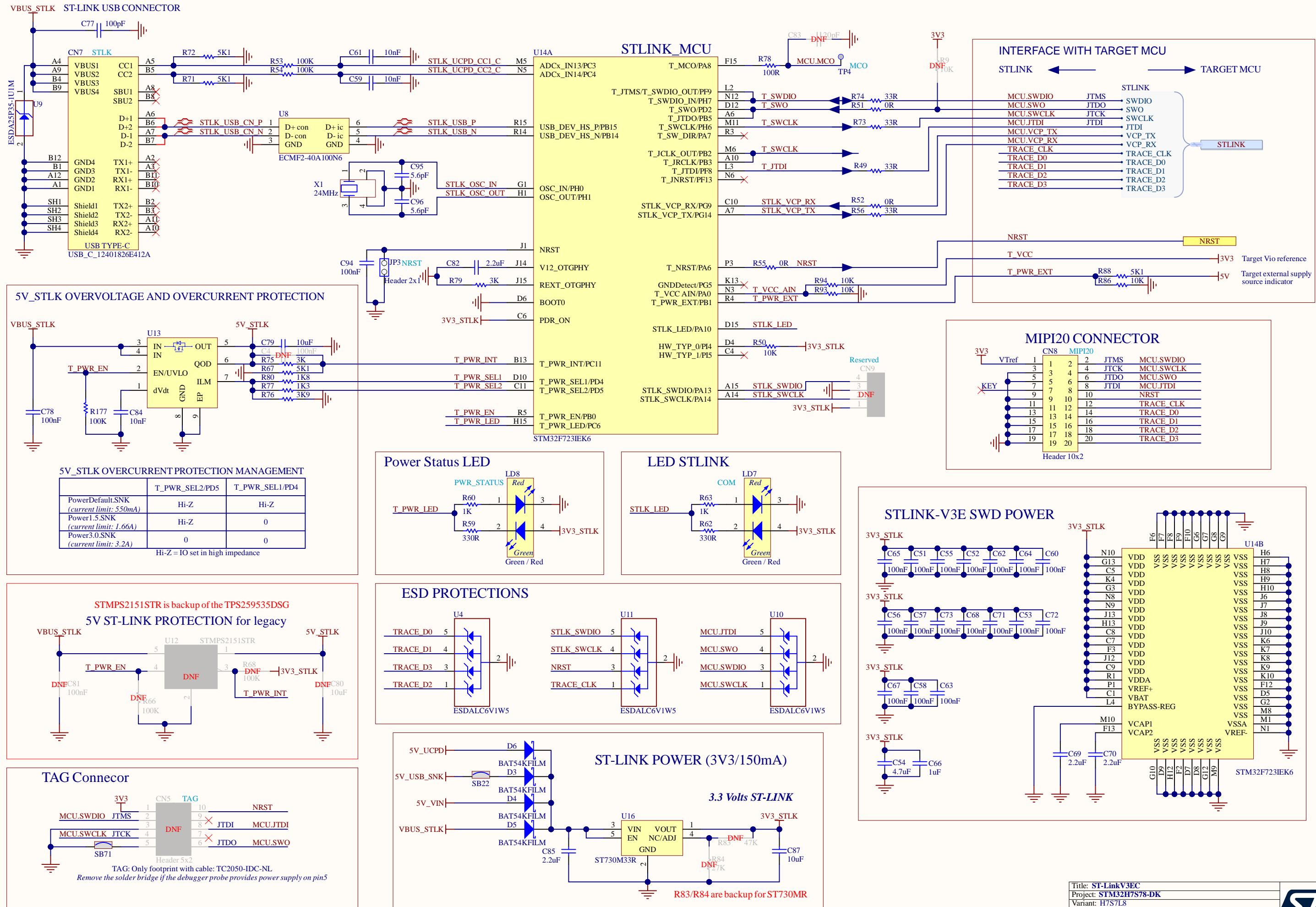


3V3 POWER SOURCE (1.3A)



1V8 POWER SOURCE (1.3A)

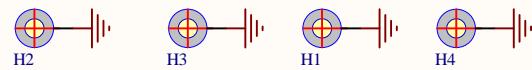


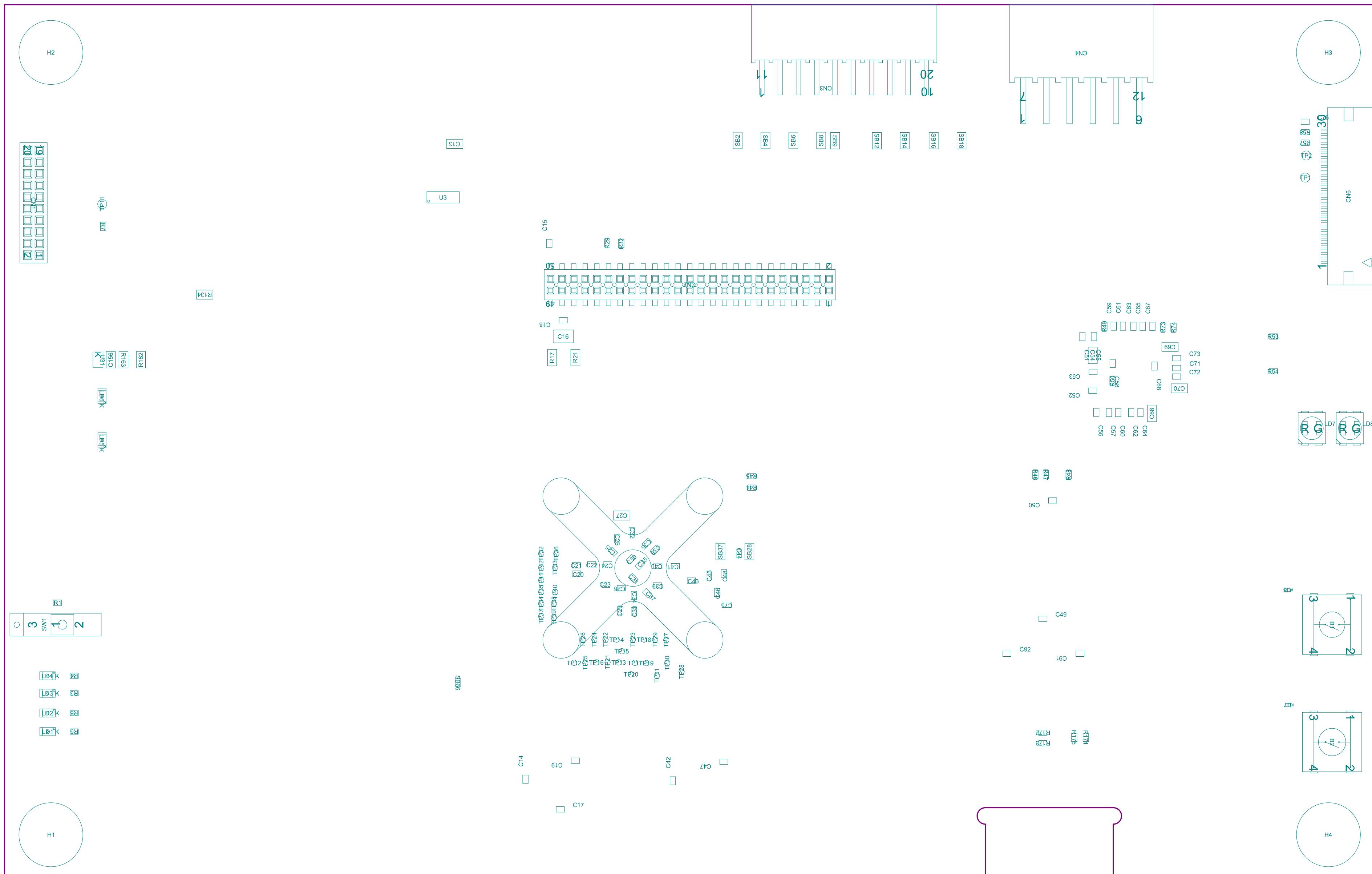


HW2
STICKER BOARD
Sticker board

HW1
STICKER PRODUCT
Sticker product

HW8
DNF
CS1222291-D6524MF





Project: STM32H7S78-DK

Layer: M14-Top Assembly

Gerber: .GM14

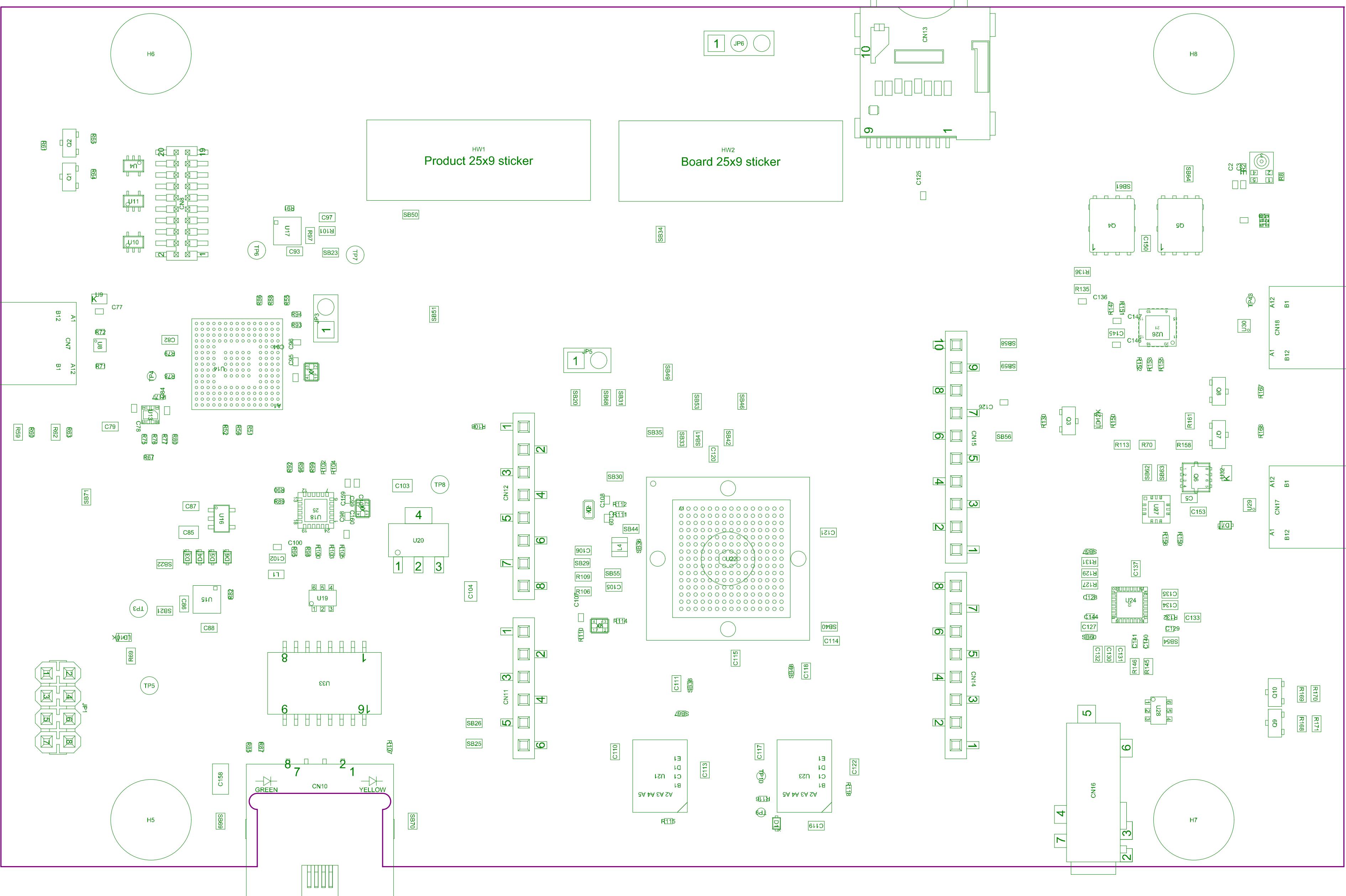
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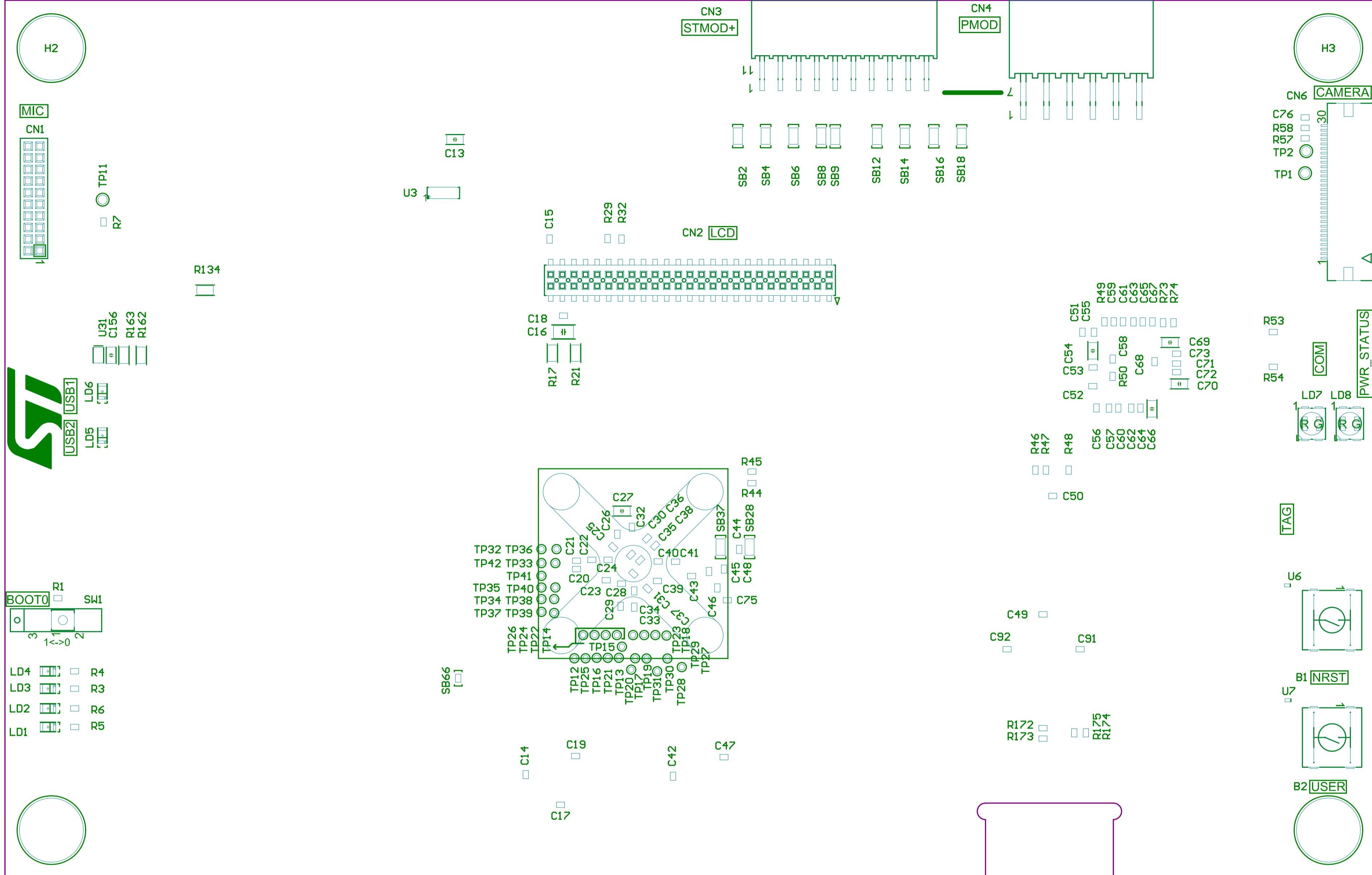
Ref: MB1736

Date: 11-JAN-24

Rev: D







RoHS
Compliant

PMOD

MB1736D

STMOD+

