

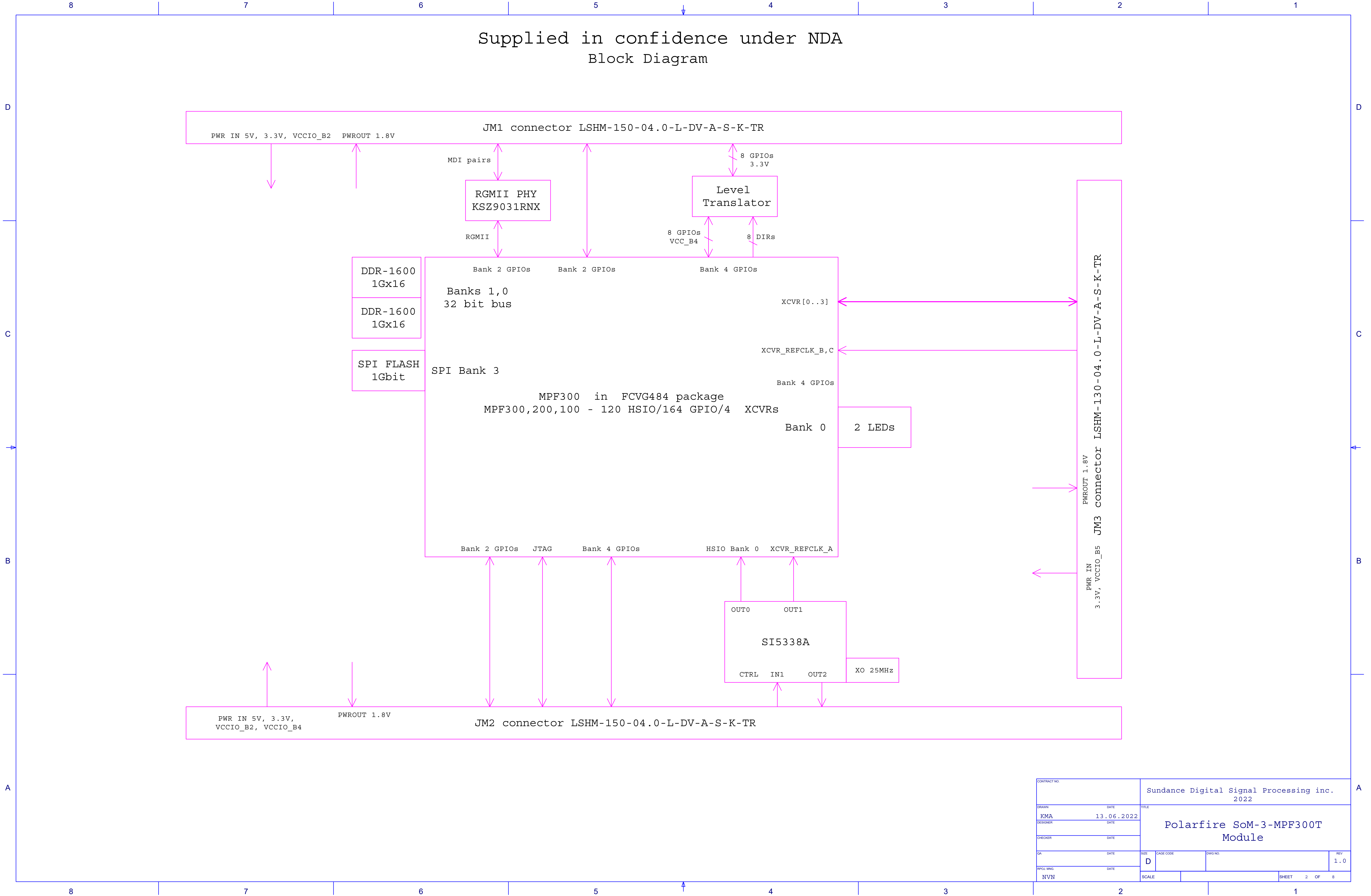
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PAGE 1 - TITLE
PAGE 2 - Block Diagram
PAGE 3 - FPGA Power
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PAGE 5 - DDR4 SDRAM
PAGE 6 - BANK 4, Transceivers
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Revision History
0.1 - 17.12.2020
 SHEET 4 - Changed net names acording to transceivers;
1.0 - 02 Jun 2022
 SHEET 3 - Changed DA1 from EN63A0QA to MYMGK1R820FRSR
 SHEET 4 - Added Green, Red User LEDs in 0201 package
 - 13 Jun 2022
 SHEET 2 - Added Block Diagram

PCB NOTE: DDR4 chips on page 5
must accept single and dual die chips,
Chip max dimensions is 14x10.5mm

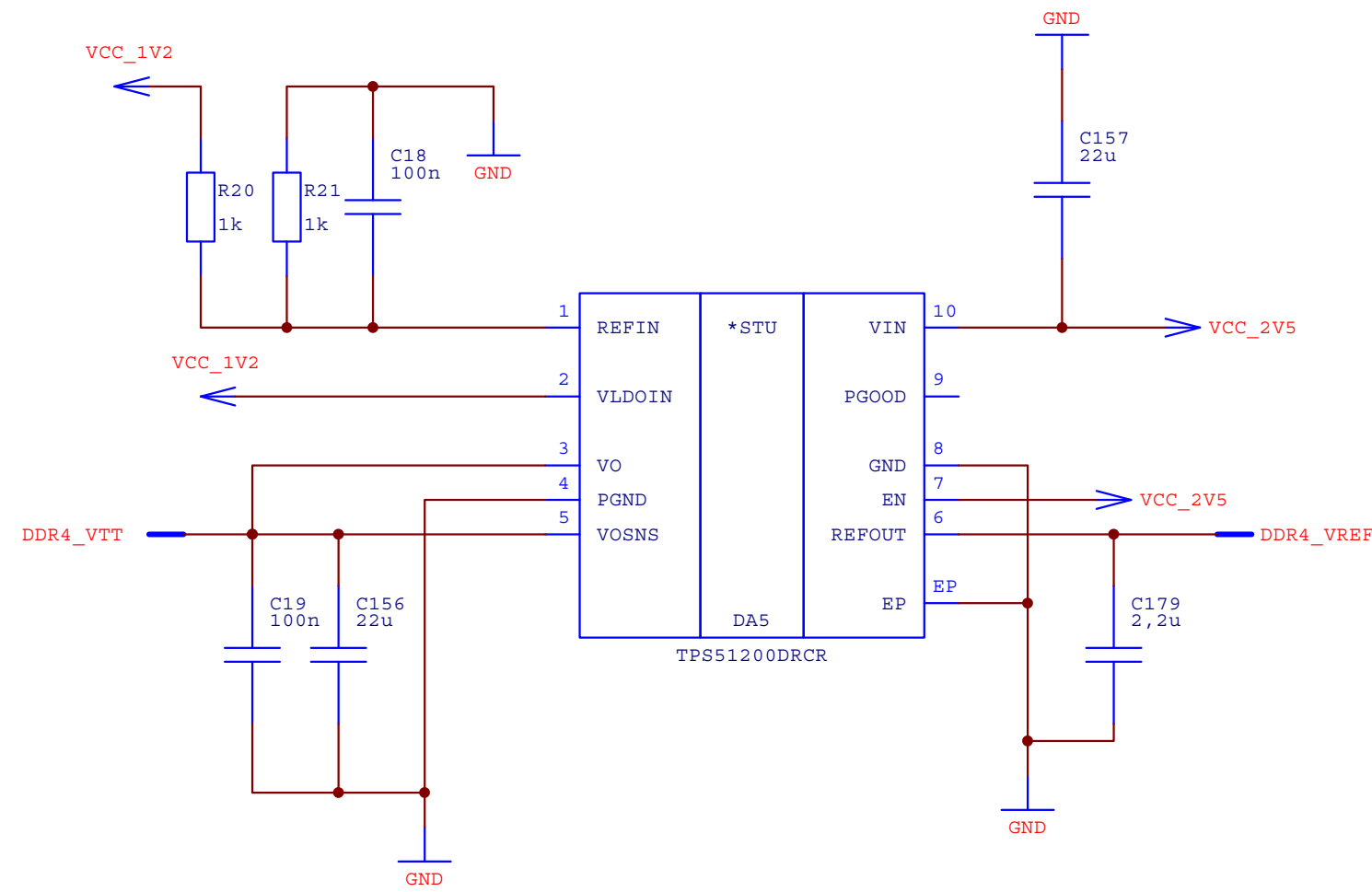
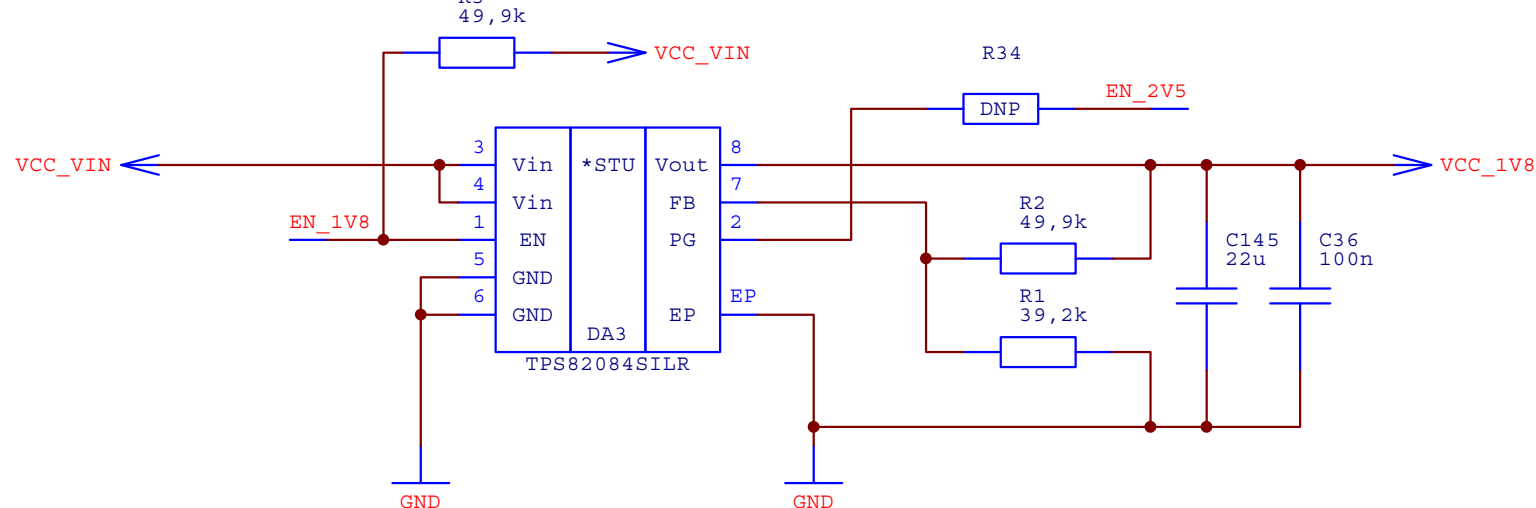
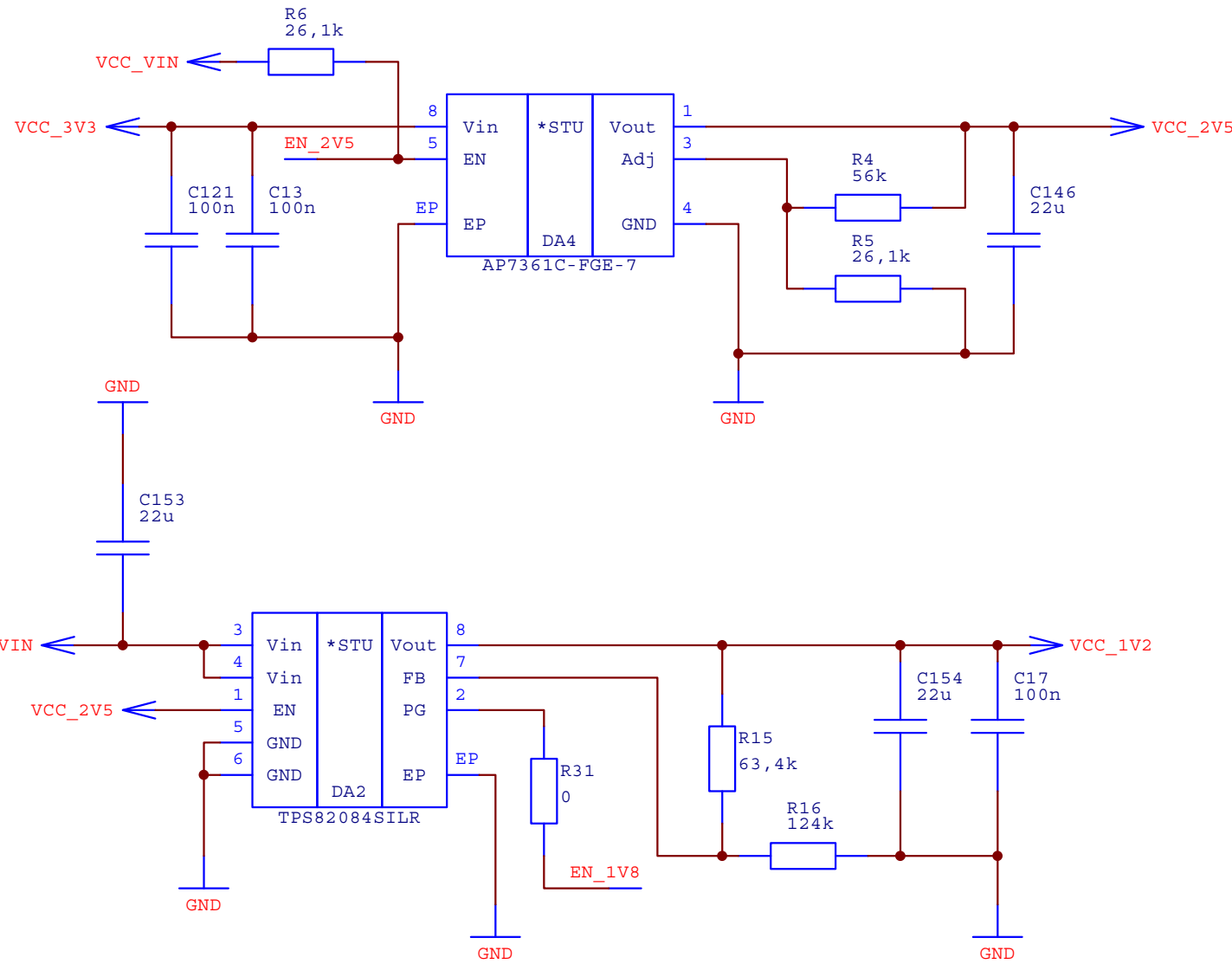
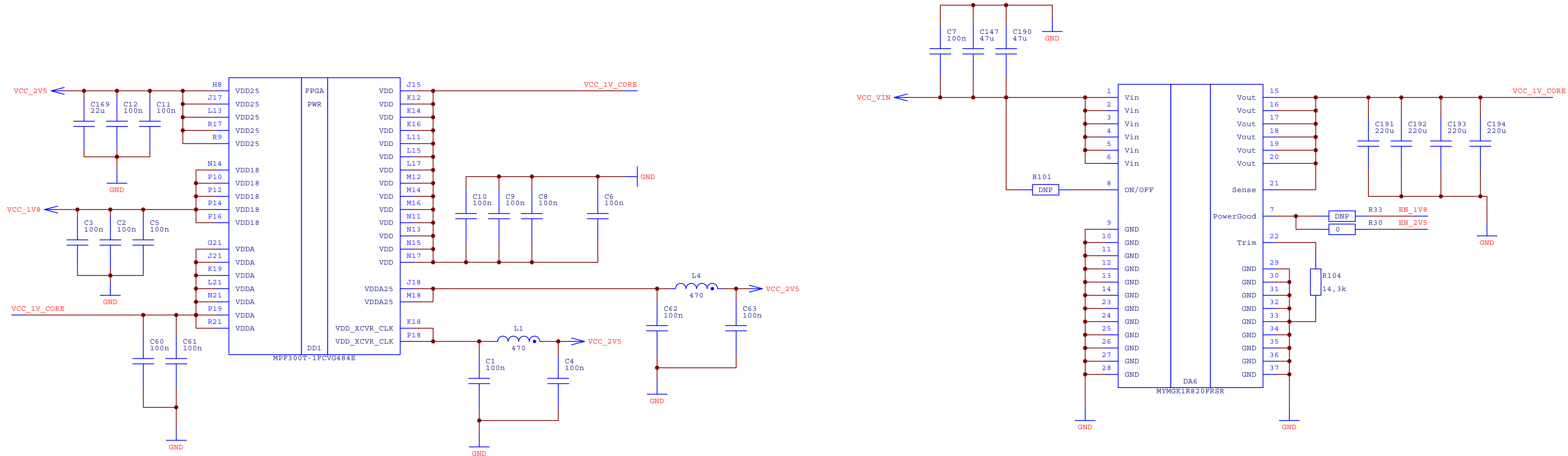
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DRAWN		DATE		TITLE			
KMA		13.06.2022		Polarfire SoM-3-MPF300T Module			
DESIGNER		DATE					
CHECKER		DATE					
QA		DATE		SIZE	CAGE CODE	DWG NO.	REV
				D			1.0
RPOJ MNG.		DATE		SCALE		SHEET 1 OF 8	
NVN							



CONTRACT NO.		Sundance Digital Signal Processing inc. 2022			
DRAWN	DATE	TITLE Polarfire SoM-3-MPF300T Module			
KMA	13.06.2022				
DESIGNER	DATE				
CHECKER	DATE				
QA	DATE	SIZE	CAGE CODE	DWG NO.	REV
		D			1.0
PROJ MNG.	DATE	SCALE		SHEET 2 OF 8	
NVN					

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FPGA Power



Power Sequence per ERRATA

CONTRACT NO.		Sundance Digital Signal Processing inc. 2022			
DRAWN	DATE	TITLE			
KMA	13.06.2022	Polarfire SoM-3-MPF300T Module			
DESIGNER	DATE				
CHECKER	DATE				
QA	DATE	SIZE	CAGE CODE	DWG NO.	REV
NPOL MNG.	DATE	D			1.0
NVN		SCALE		SHEET 3 OF 8	

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JTAG, Clocking

D

C

B

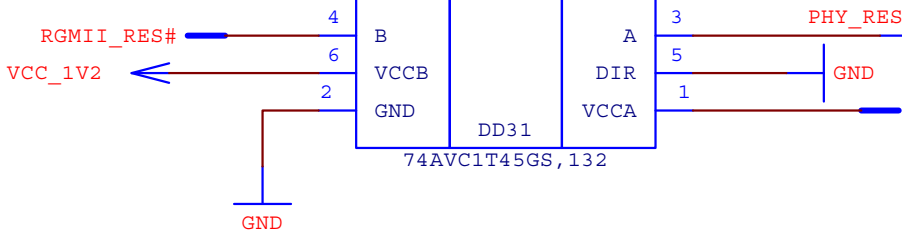
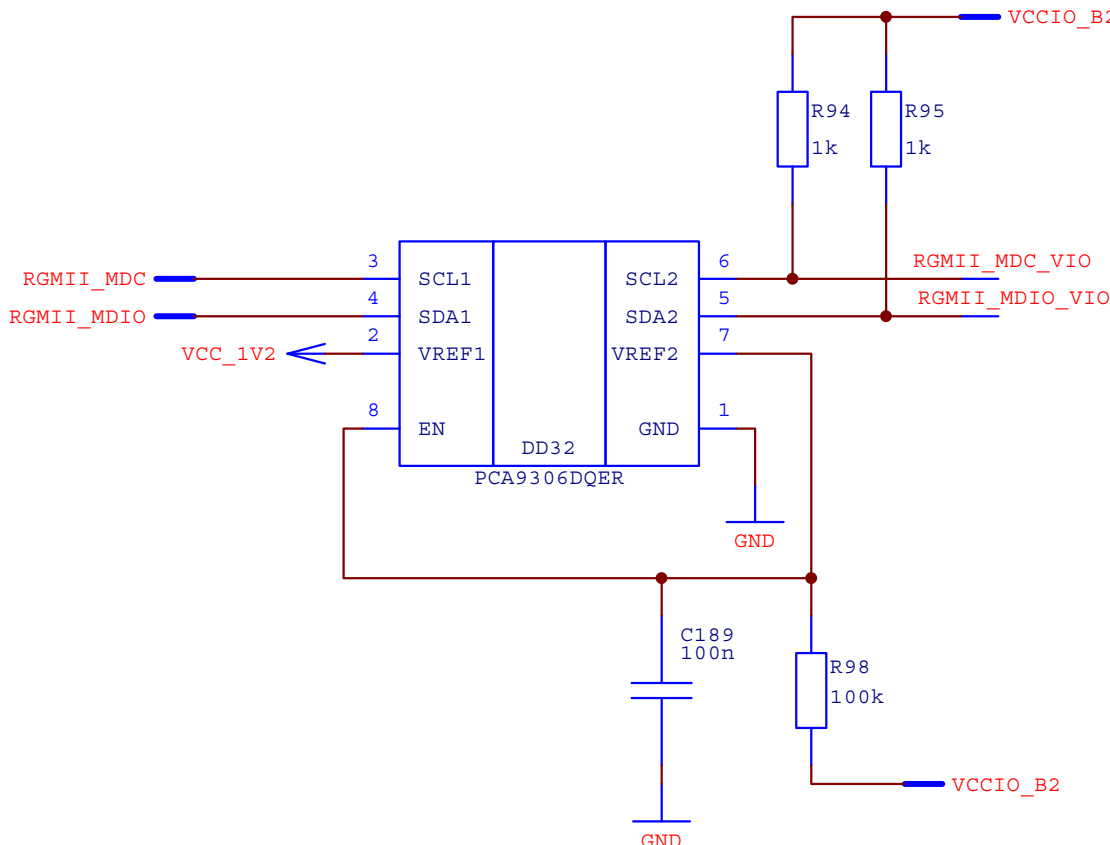
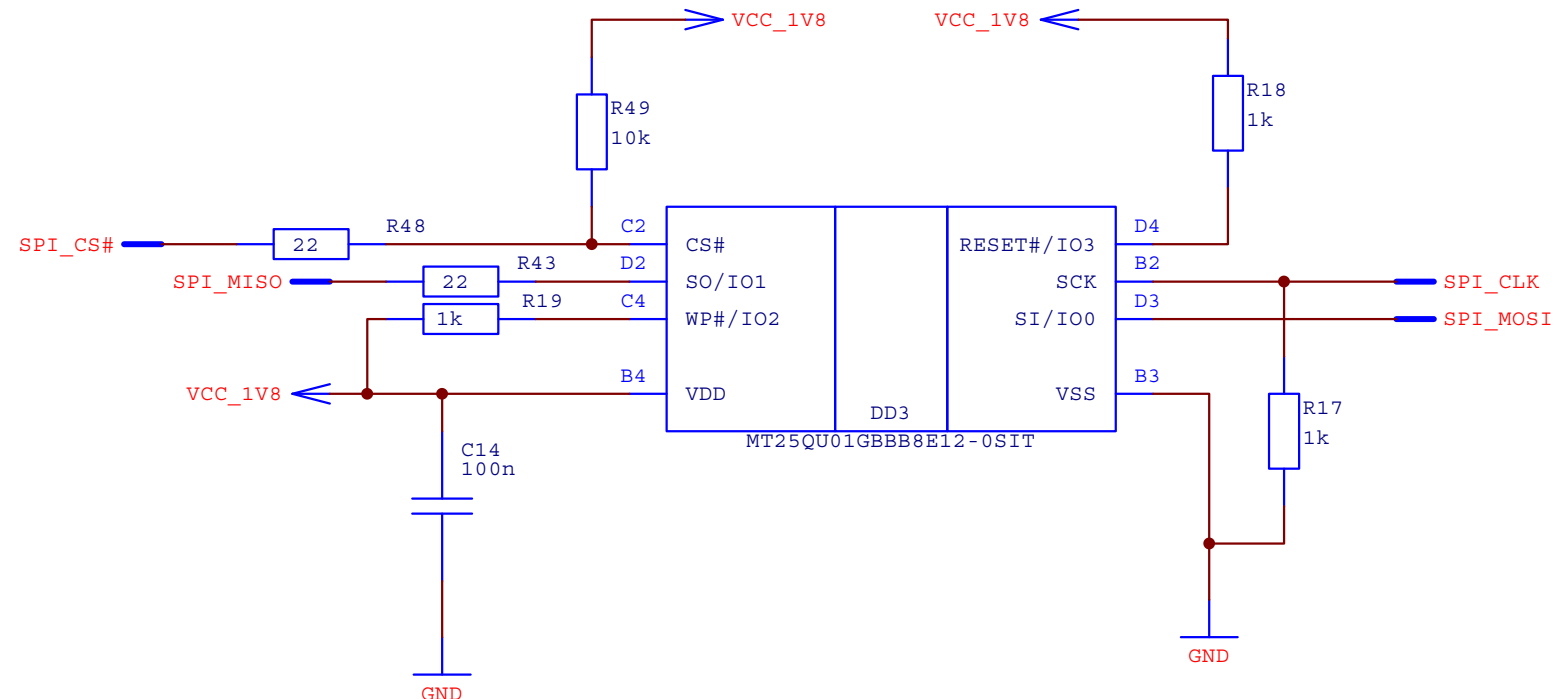
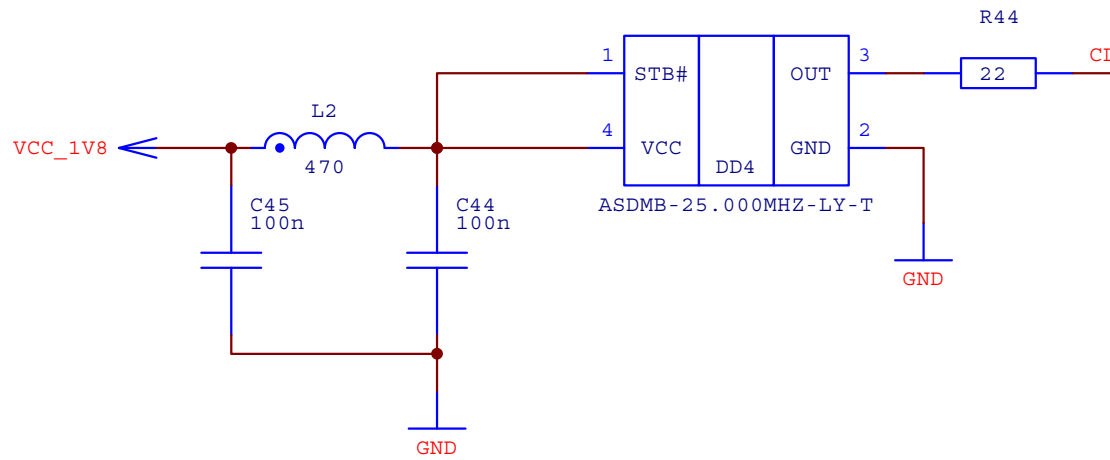
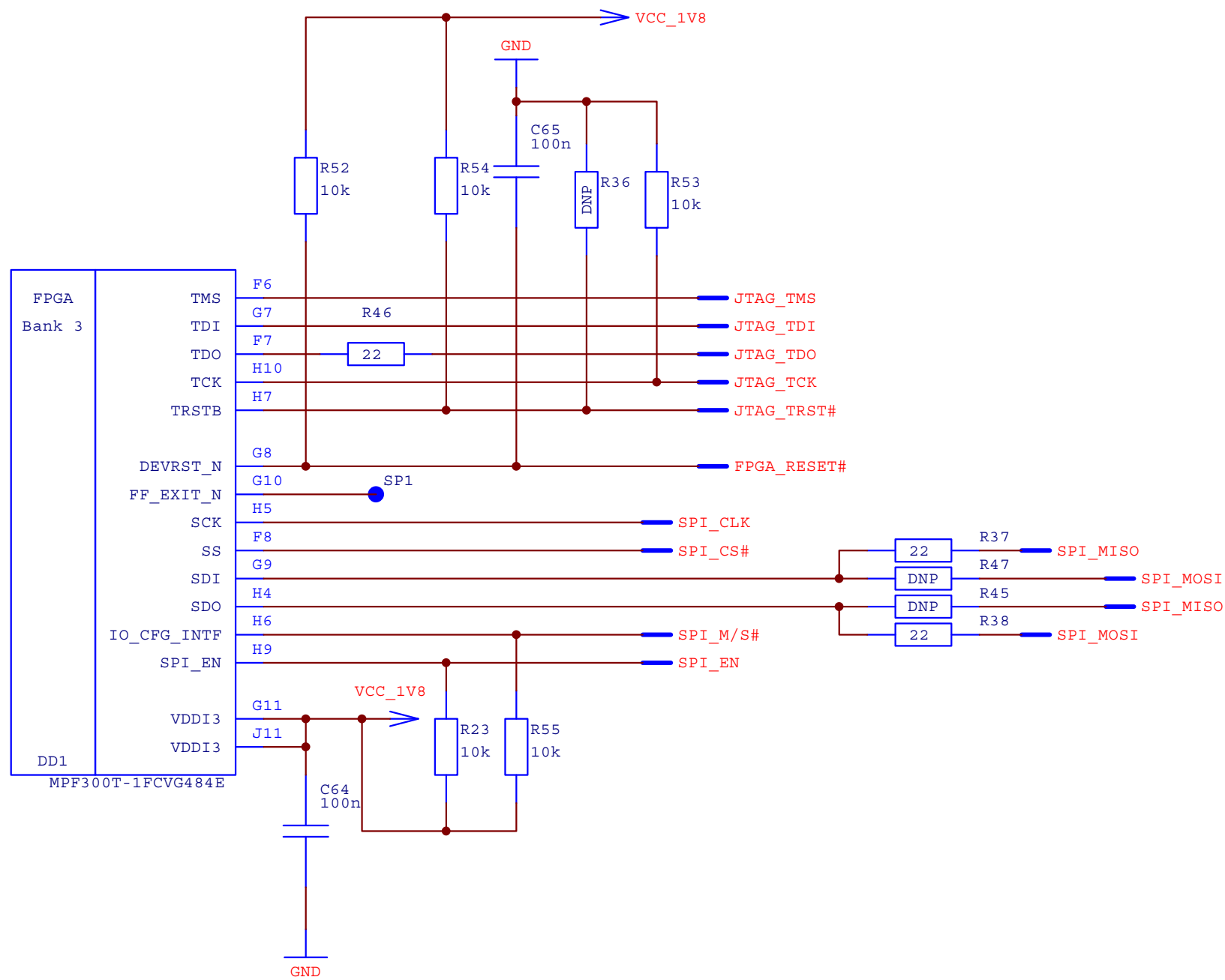
A

D

C

B

A



DDR4 SDRAM

D

C

B

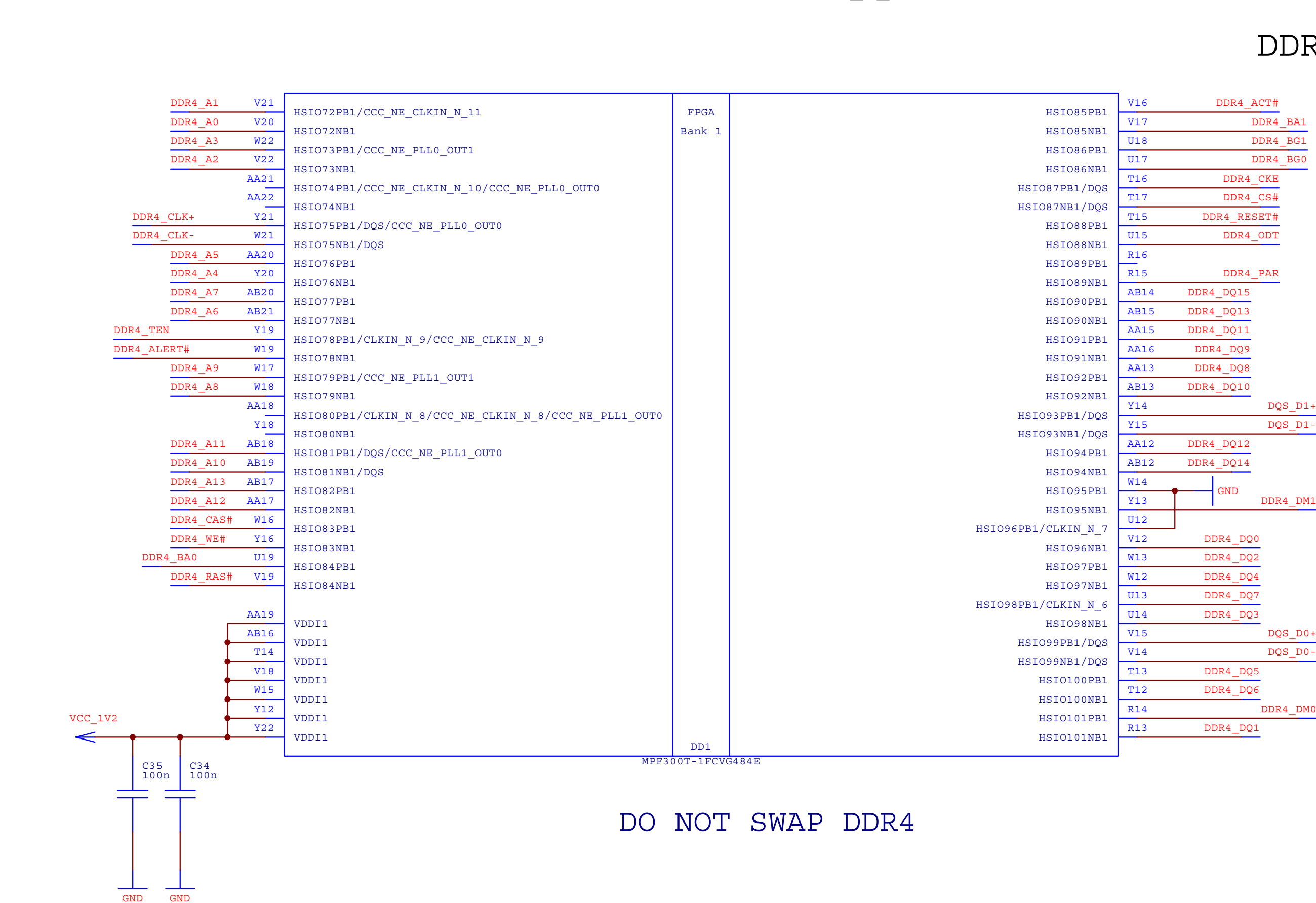
A

D

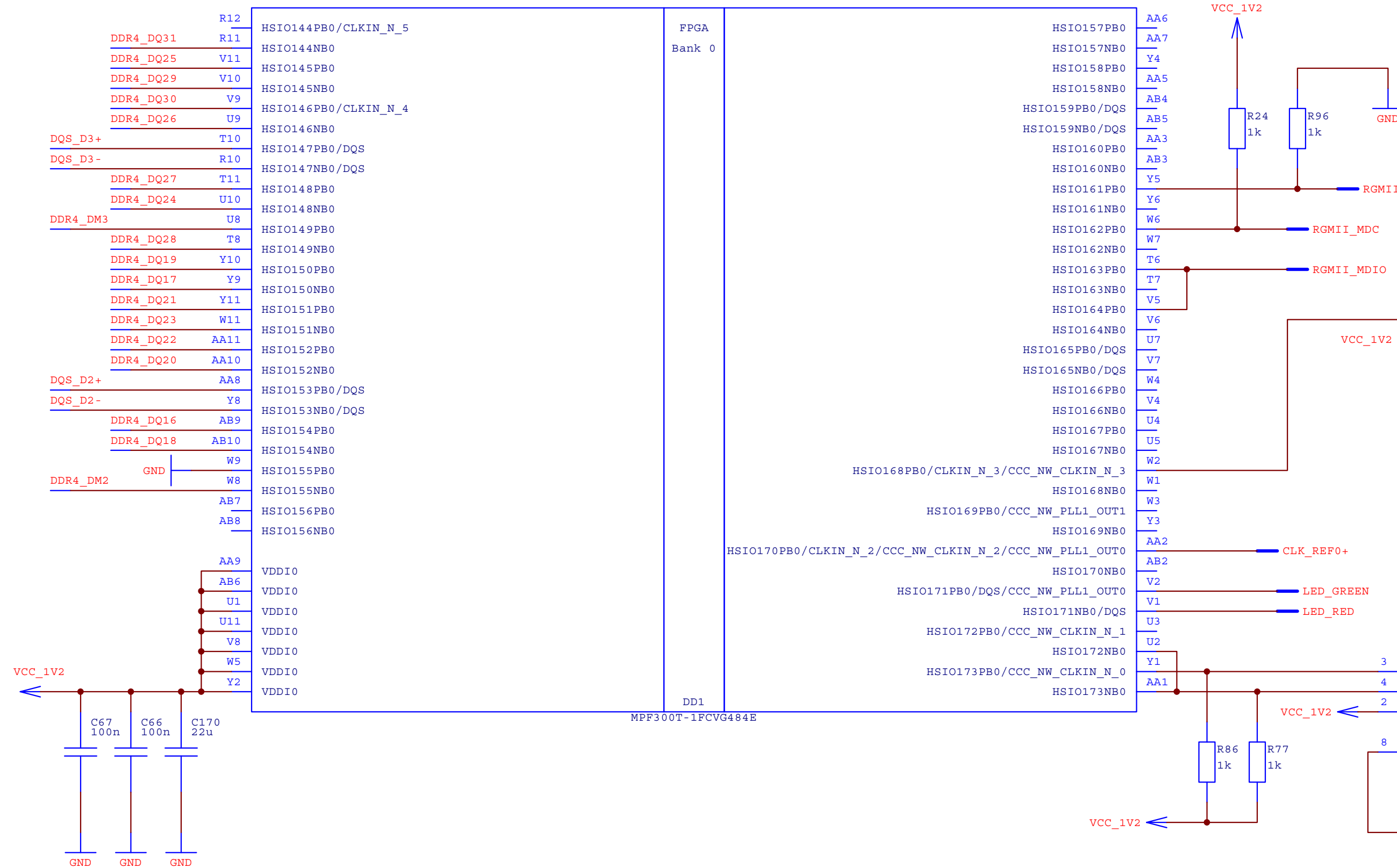
C

B

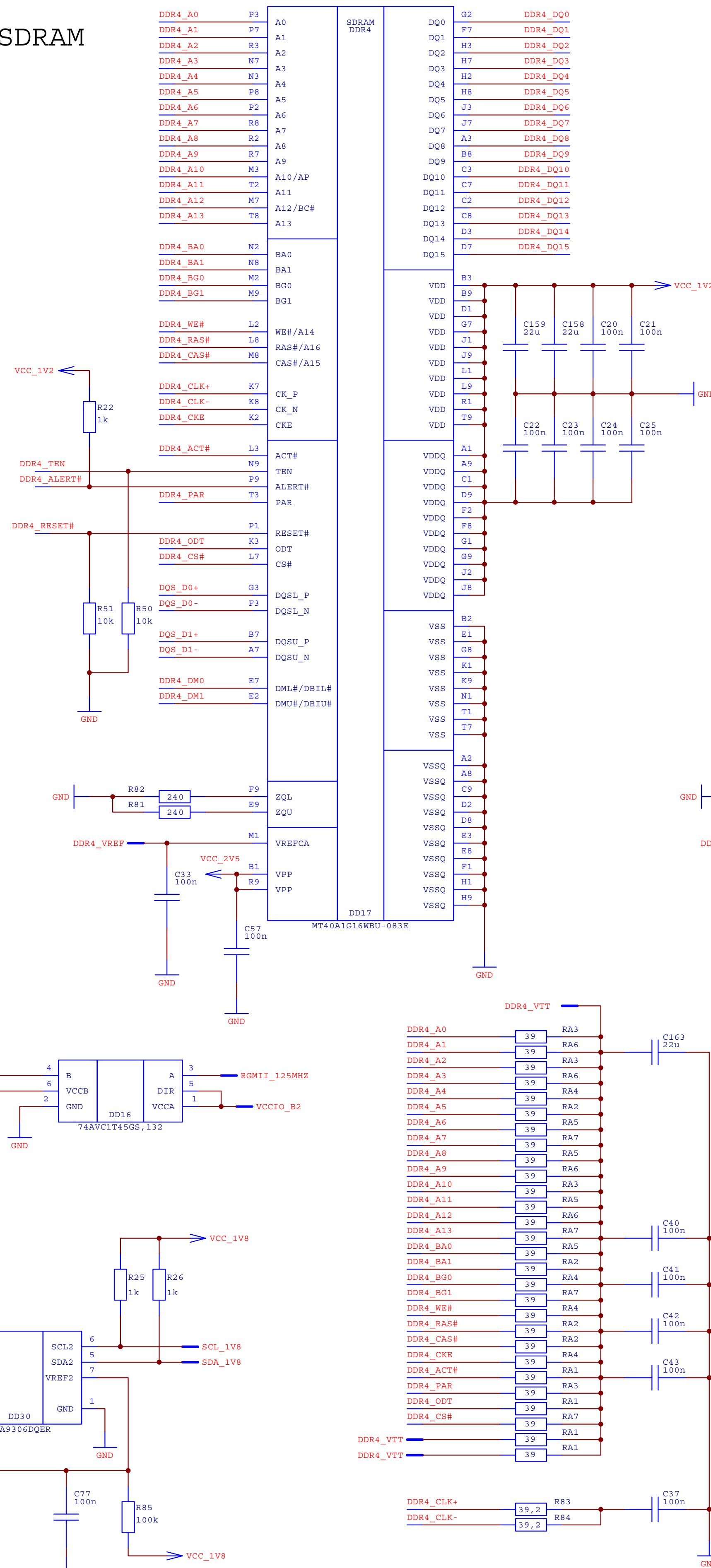
A



DO NOT SWAP DDR4



DO NOT SWAP DDR4

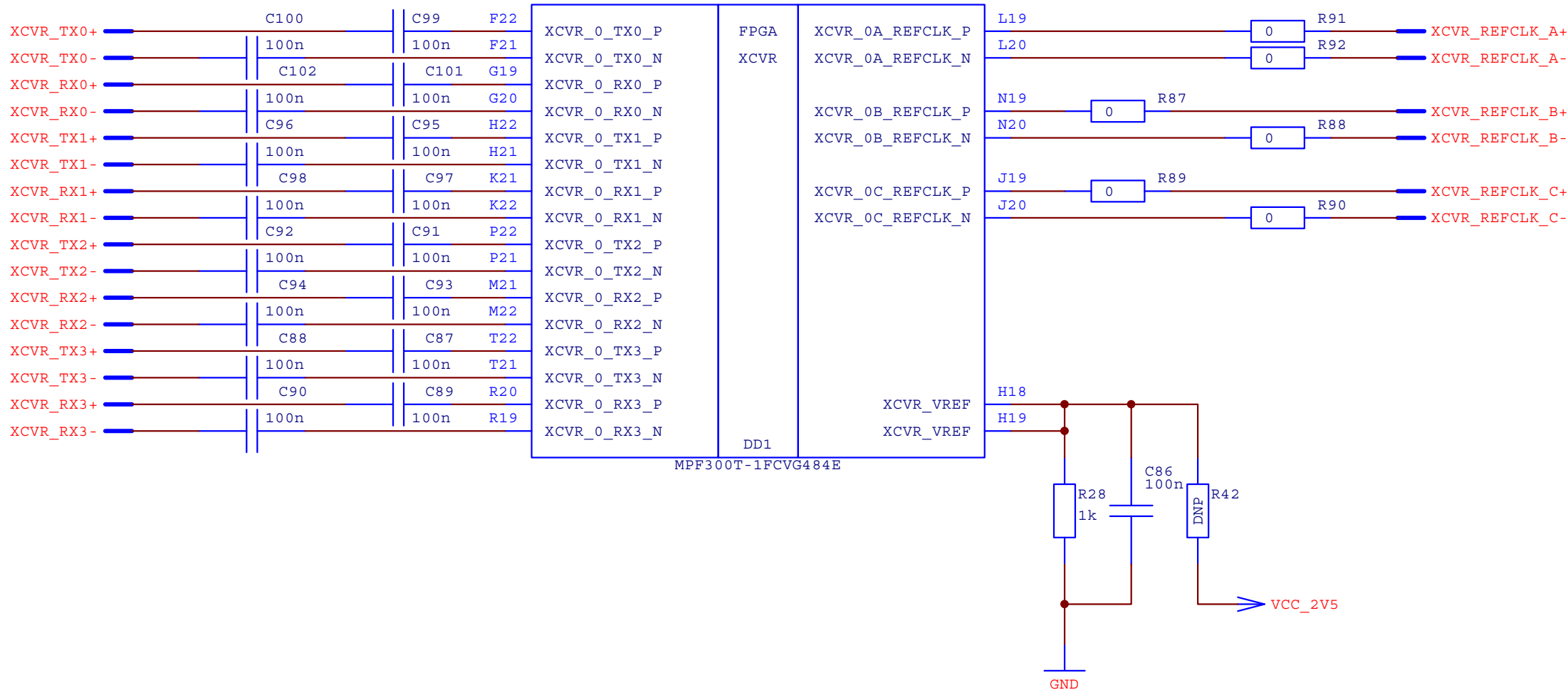


SEE NOTE on TITLE PAGE

CONTRACT NO.		Sundance Digital Signal Processing inc. 2022			
DRAWN	DATE	TITLE Polarfire SoM-3-MPF300T Module			
KMA	13.06.2022				
DESIGNER	DATE				
CHECKER	DATE				
QA	DATE	SIZE	CAGE CODE	DWG NO.	REV
		D			1.0
RPOJ. MNG.	DATE	SCALE			SHEET 5 OF 8
NVN					

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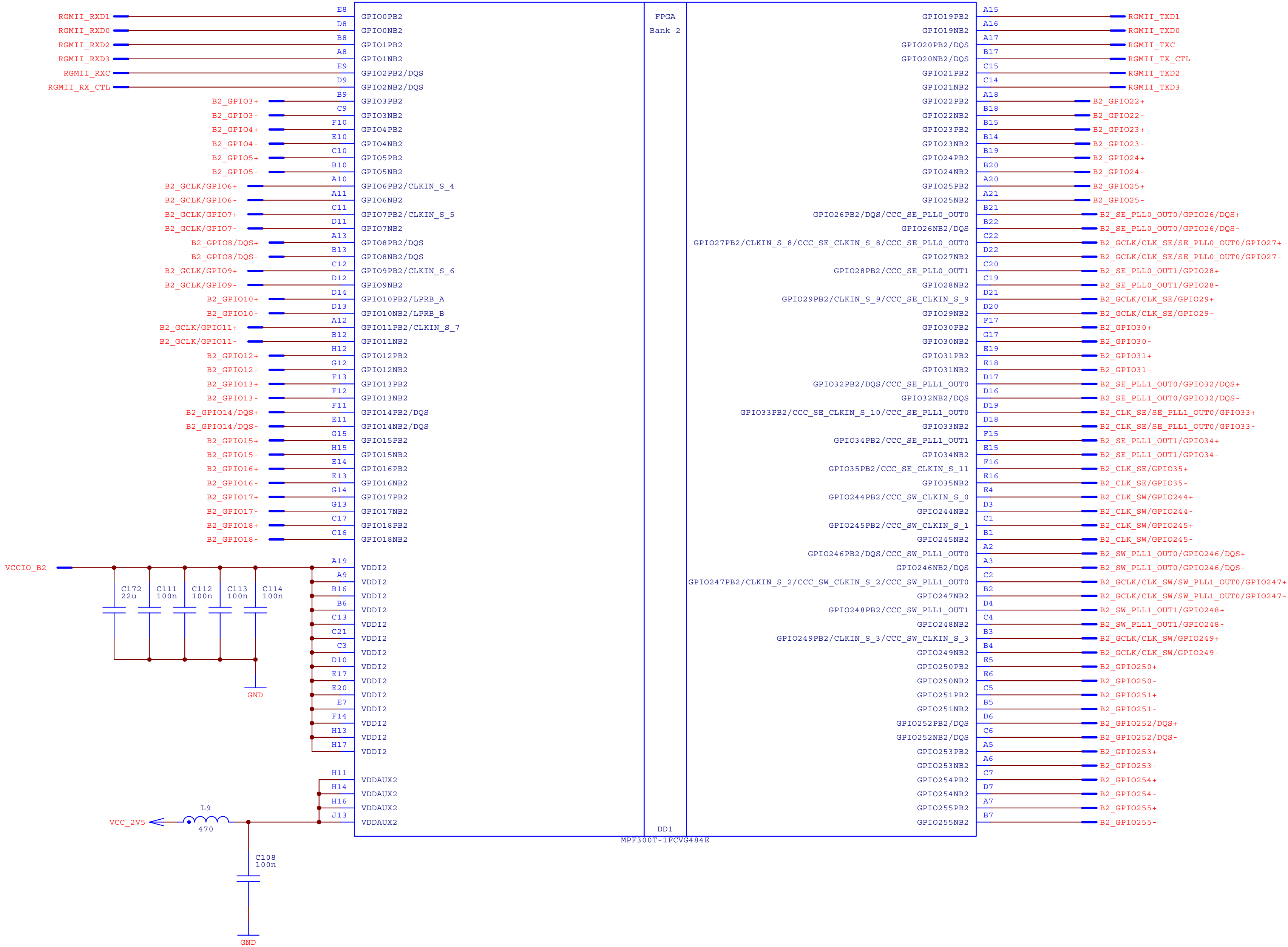
BANK 4, Transceivers



CONTRACT NO.		Sundance Digital Signal Processing inc. 2022			
DRAWN	DATE	Polarfire SoM-3-MPF300T Module			
DESIGNER	DATE				
CHECKER	DATE				
QA	DATE	SIZE	CAGE CODE	DWG NO.	REV
PROJ MNG.	DATE	D			1.0
NVN		SCALE		SHEET	6 OF 8

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BANK 2



CONTRACT NO.		Sundance Digital Signal Processing inc. 2022			
DRAWN	DATE	Polarfire SoM-3-MPF300T Module			
KMA	13.06.2022				
DESIGNER	DATE				
CHECKER	DATE				
QA	DATE	SIZE	CAGE CODE	DWG NO.	REV
NPOL MNG.	DATE	D			1.0
NVN		SCALE		SHEET 7 OF 8	

Connectors

