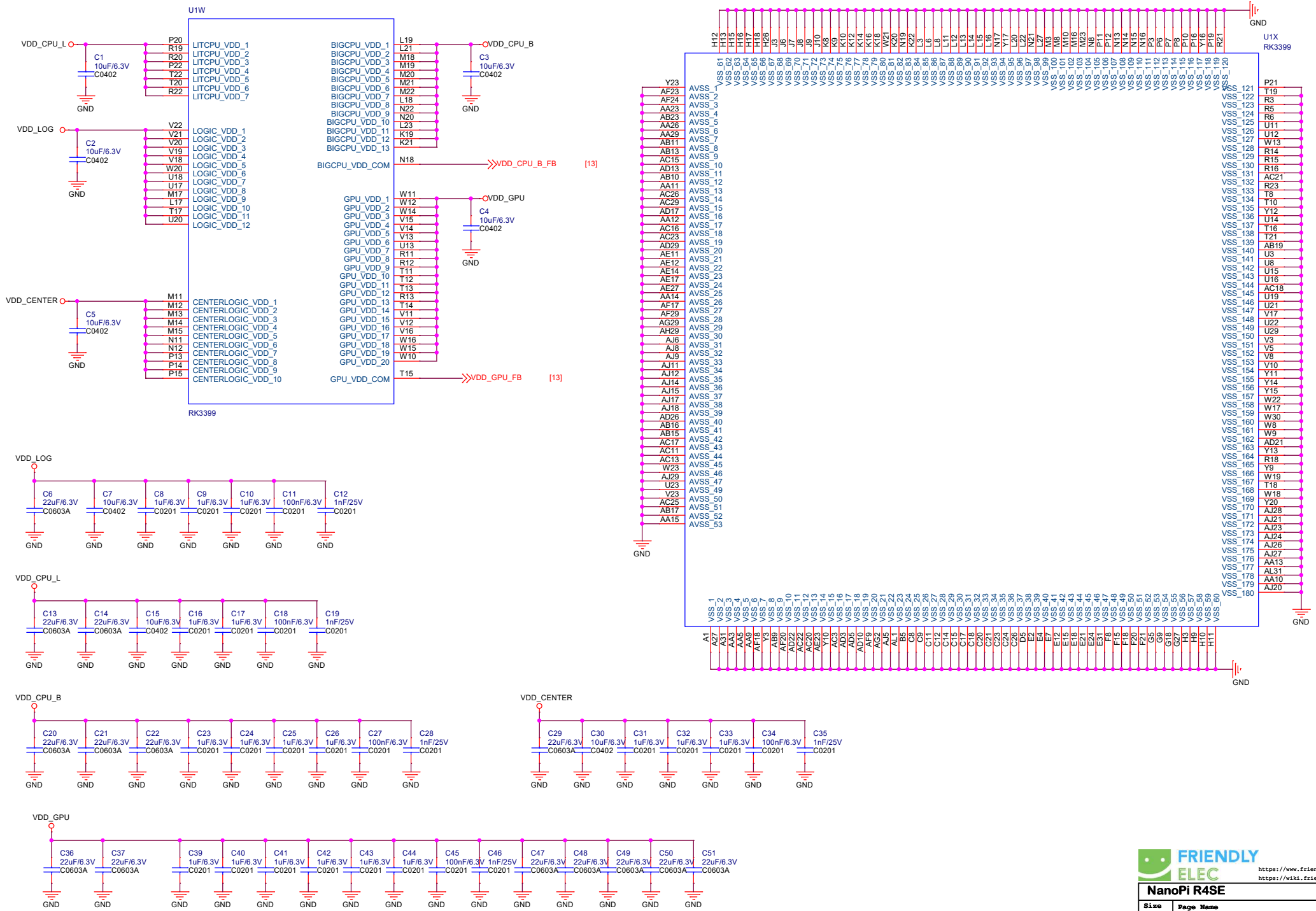
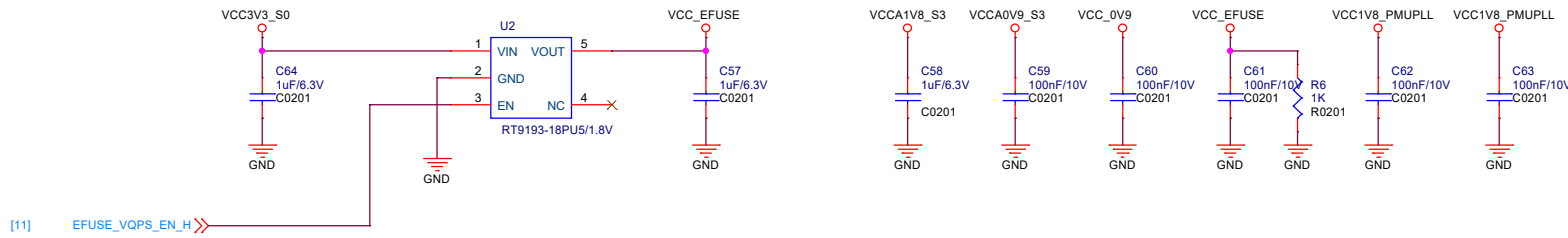
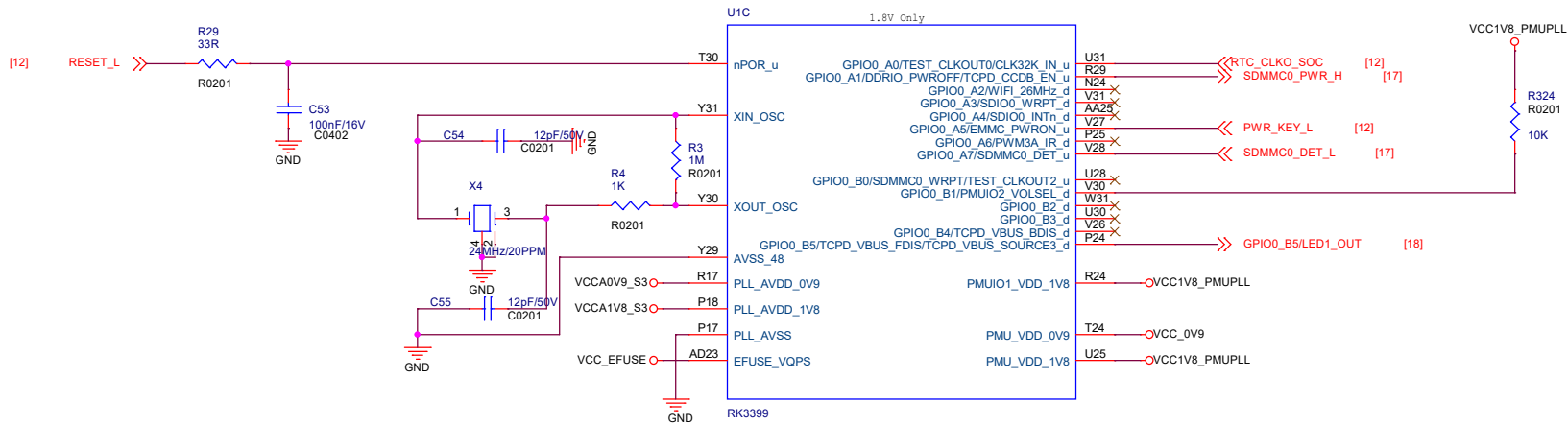
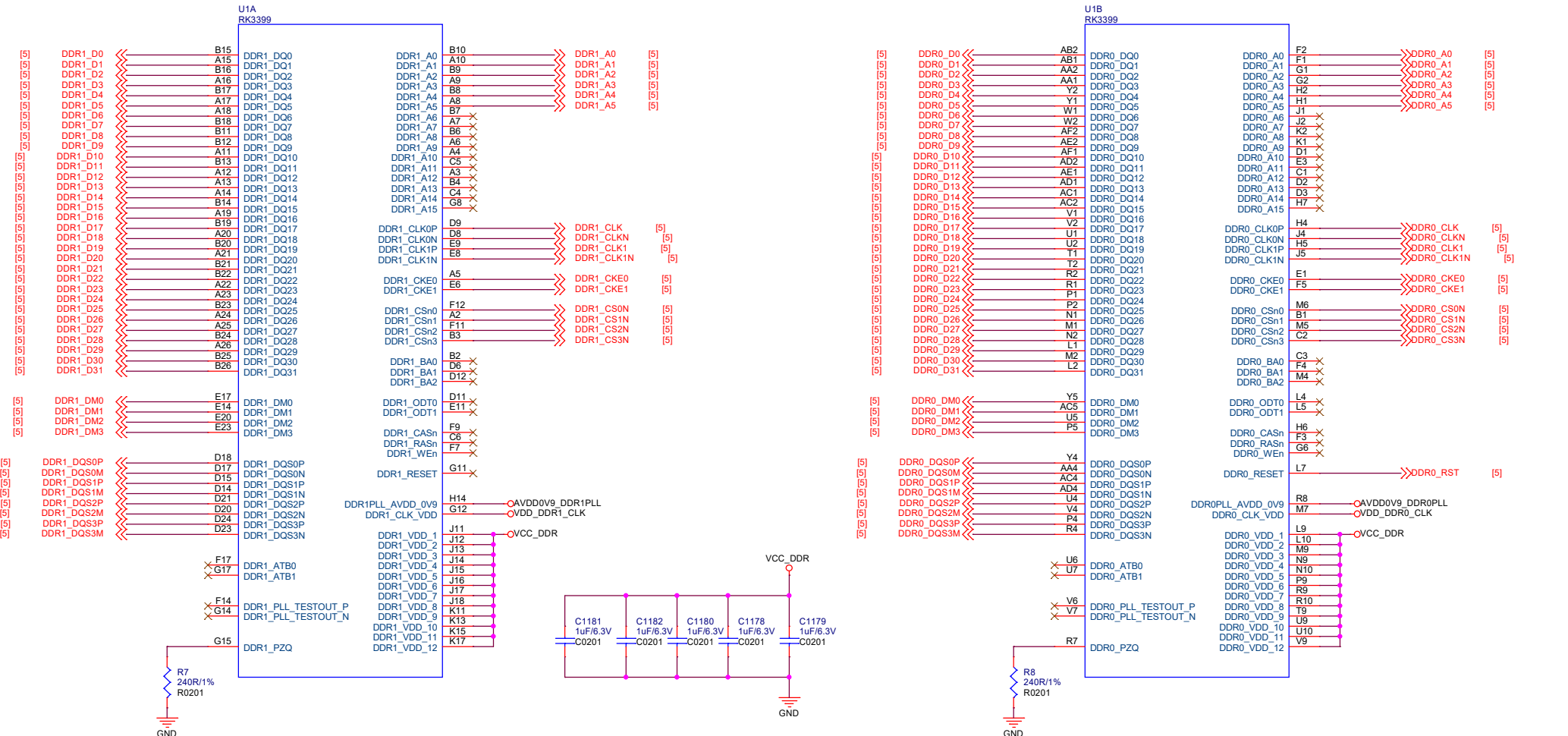


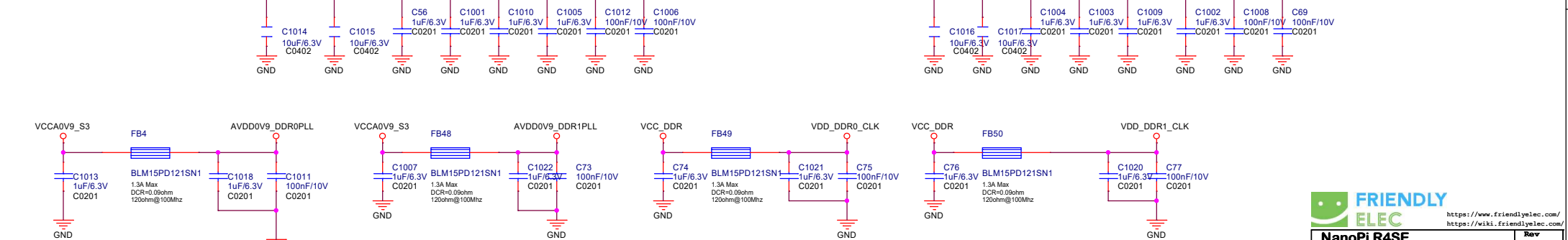
# NanoPi R4SE







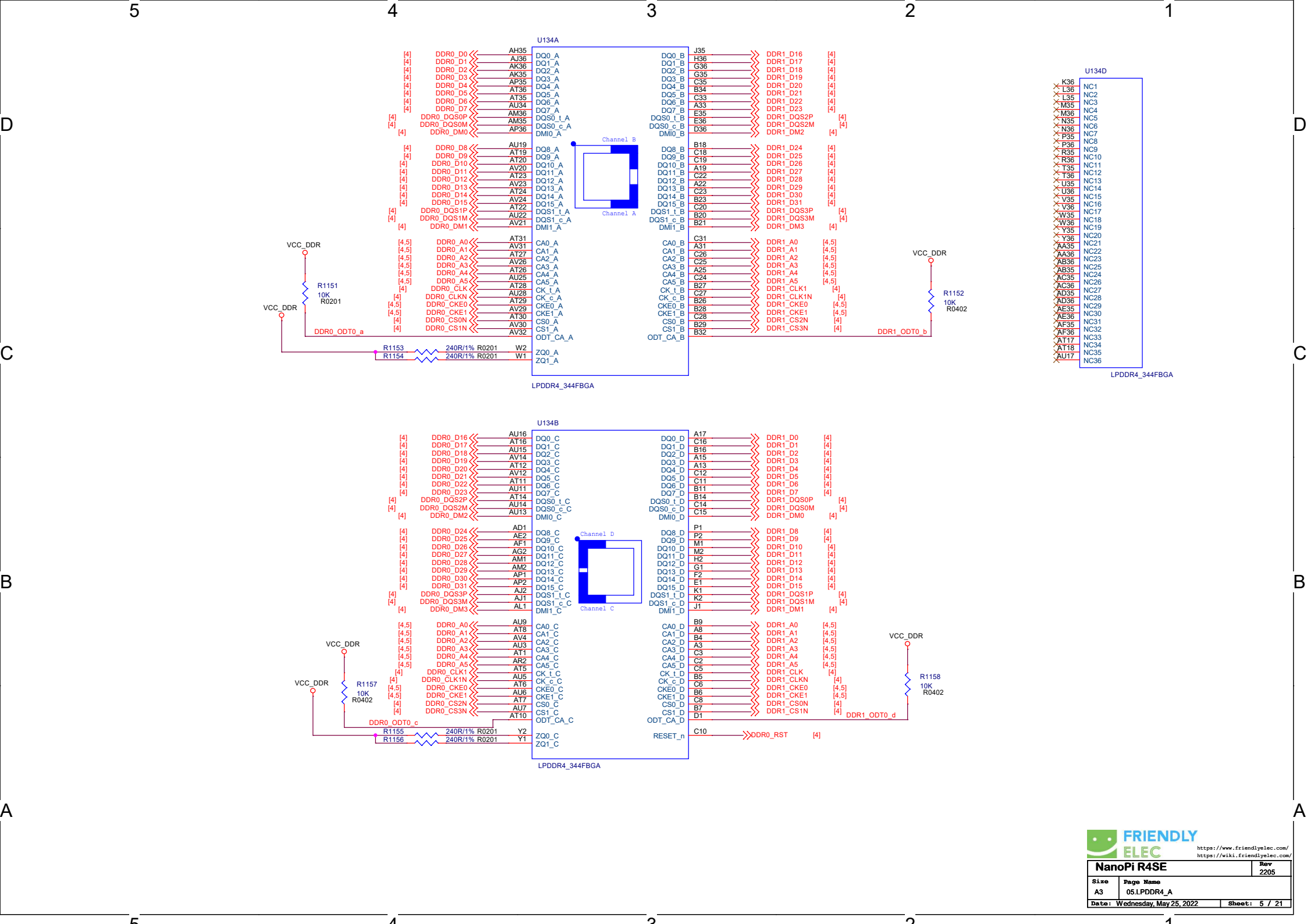
DDR FILTER

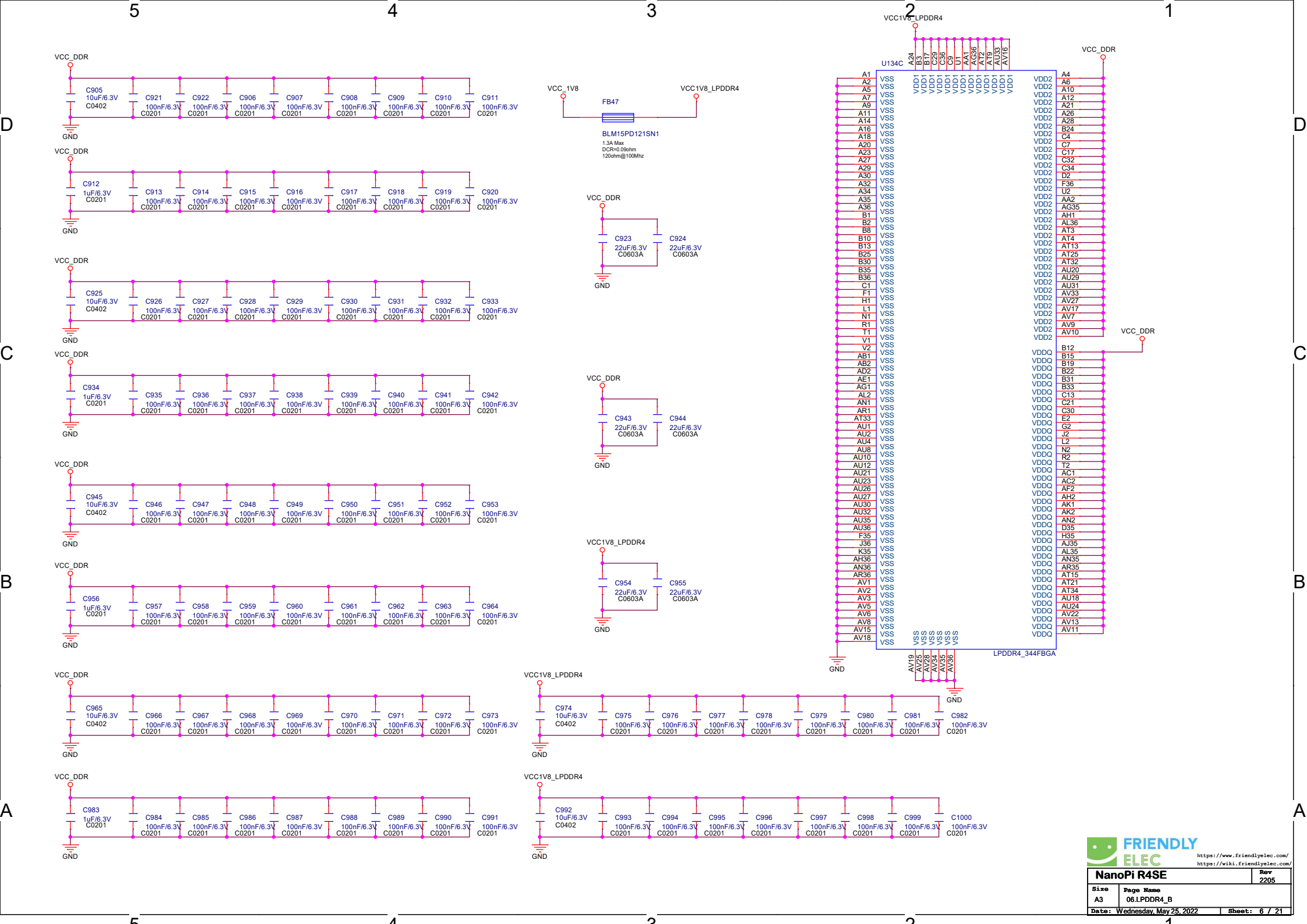


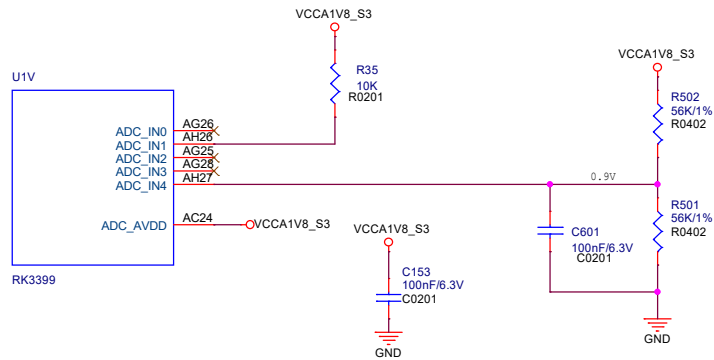
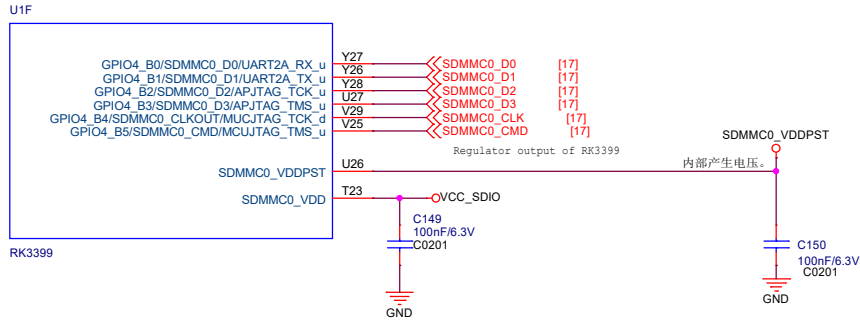
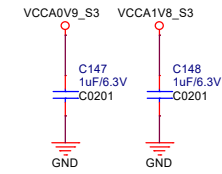
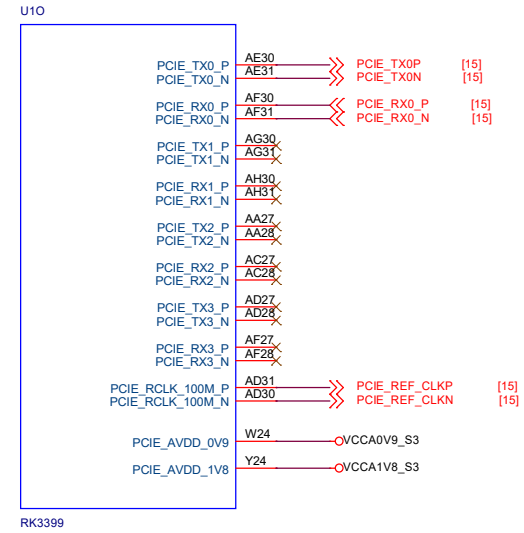
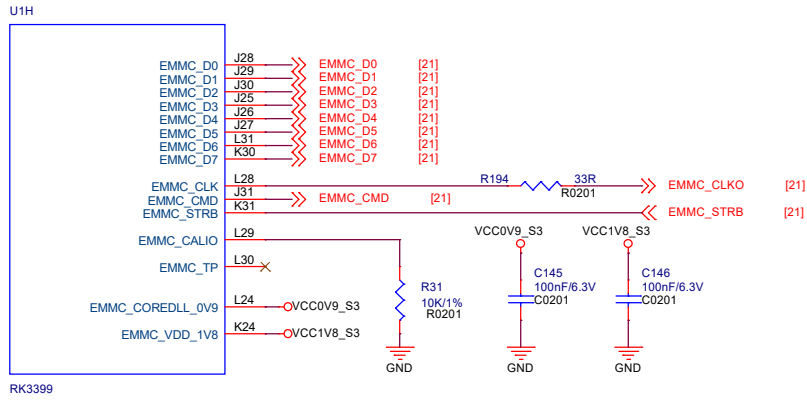
**FRIENDLY ELEC**  
<https://www.friendlyelec.com/>  
<https://wiki.friendlyelec.com/>

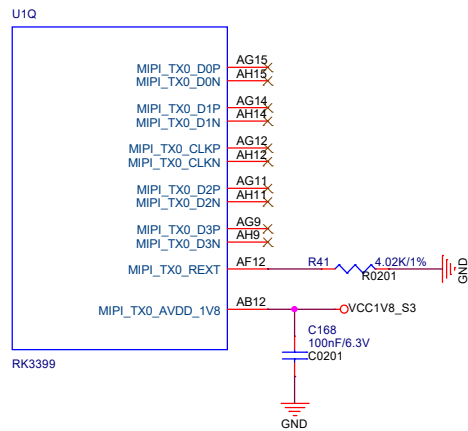
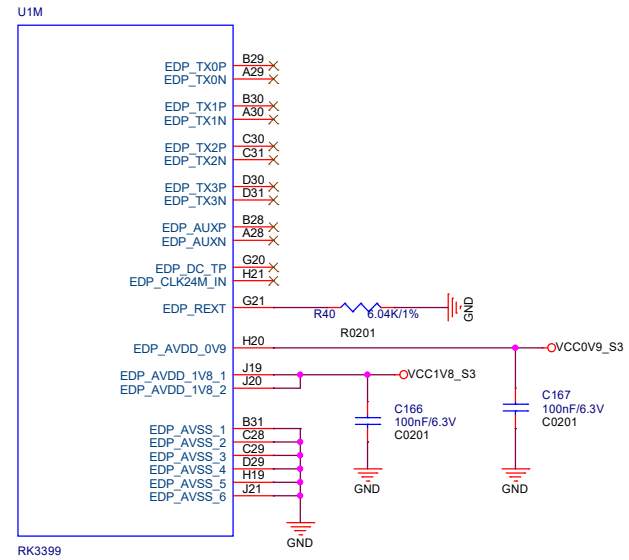
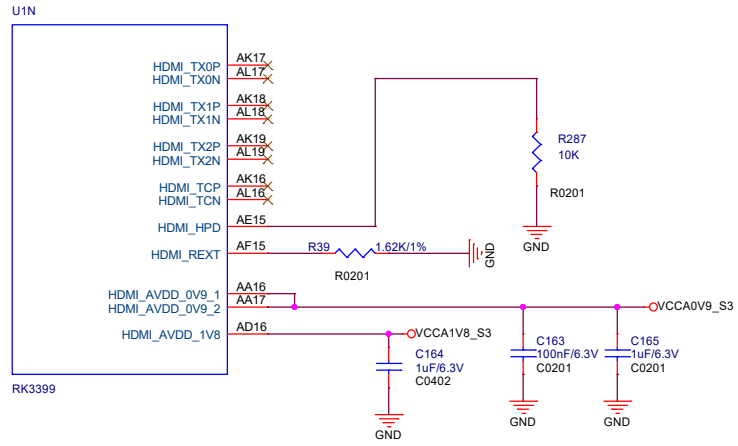
**NanoPi R4SE**

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A3	04.RK3399 DDR Controller	2205
Date: Wednesday, May 25, 2022		Sheet: 4 / 21

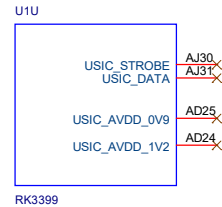
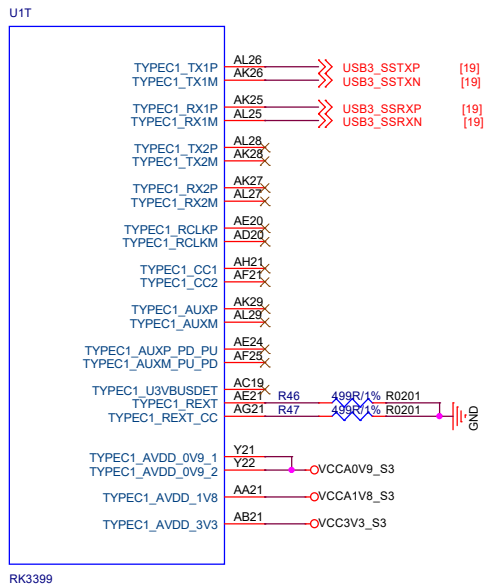
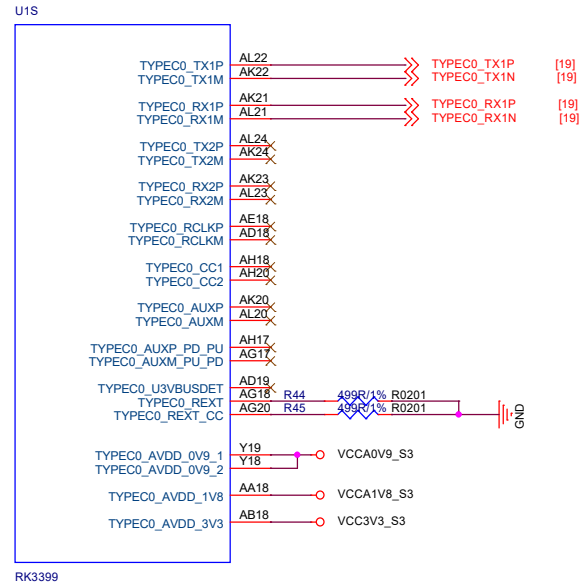
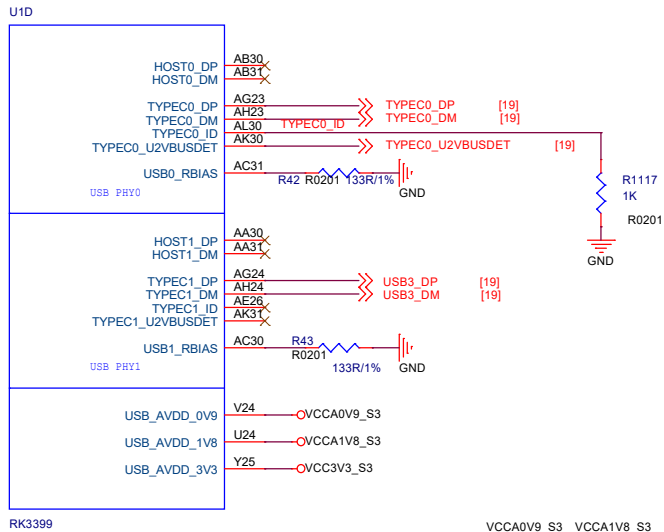


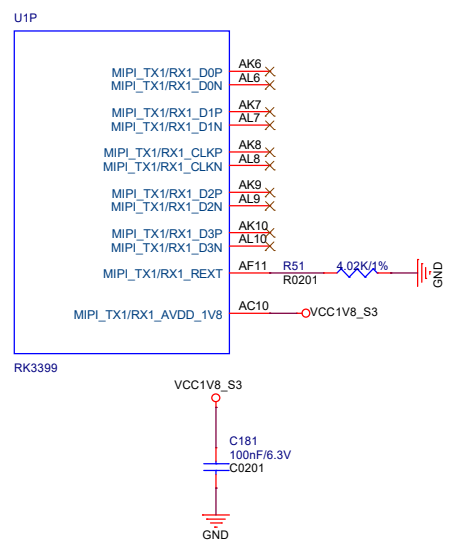
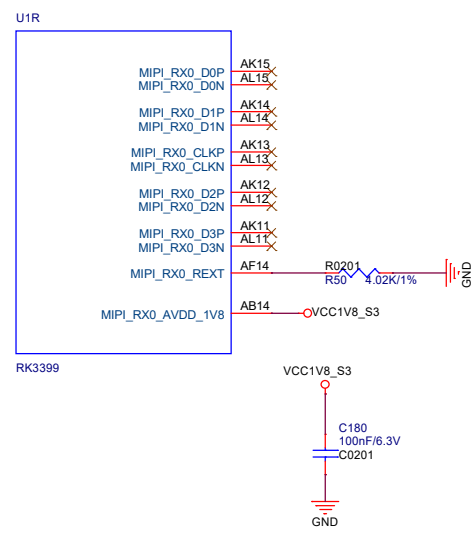
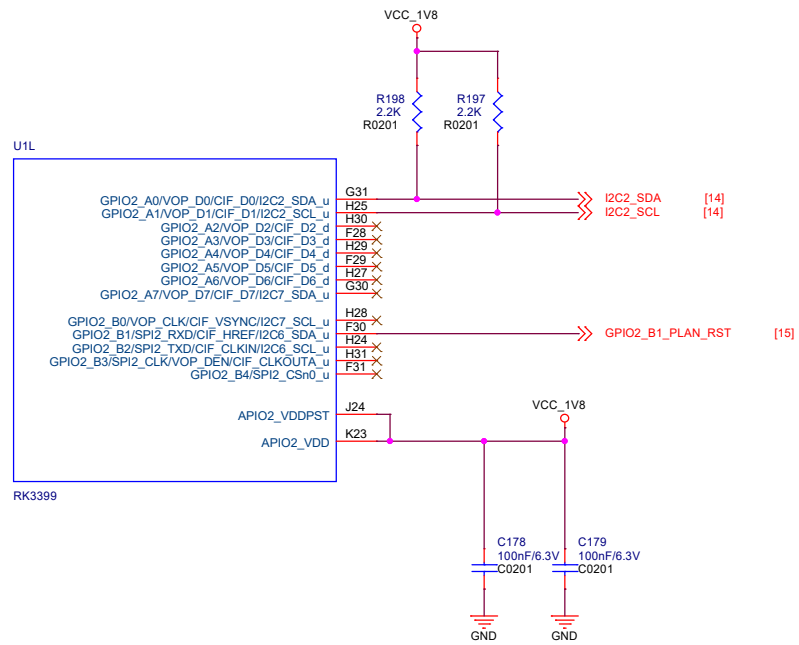


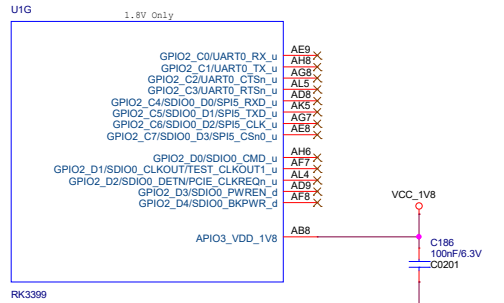
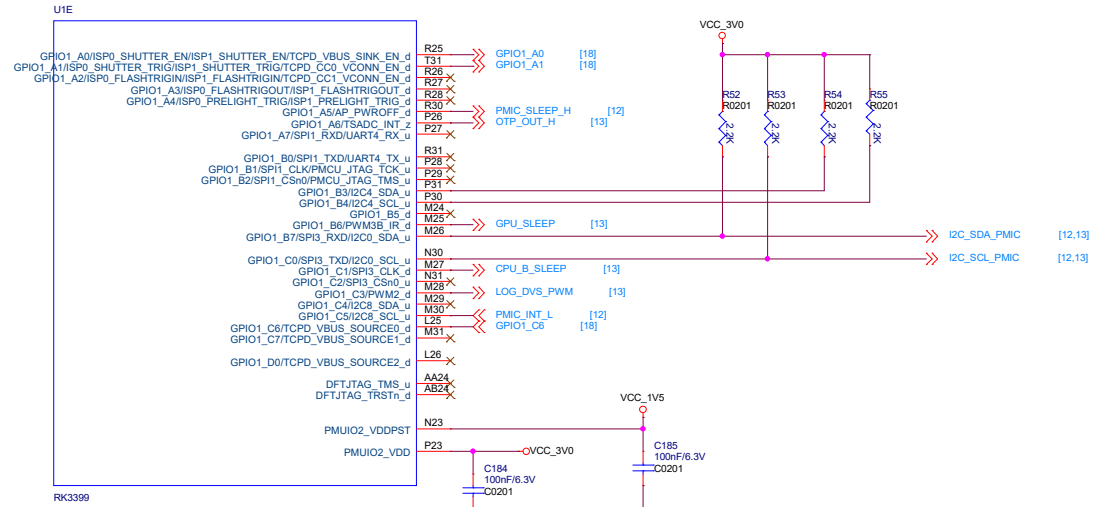
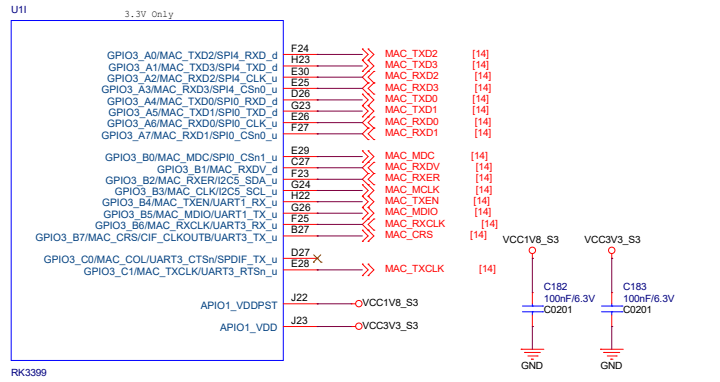




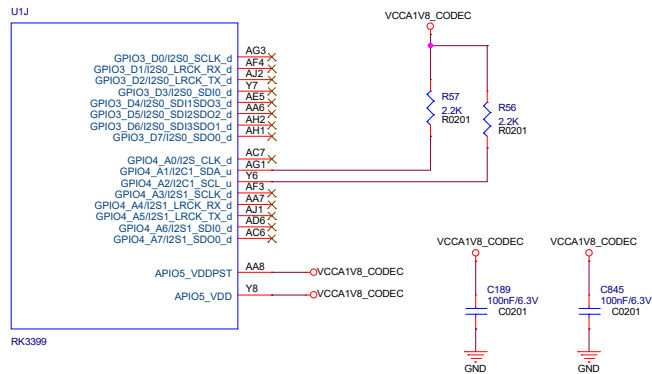
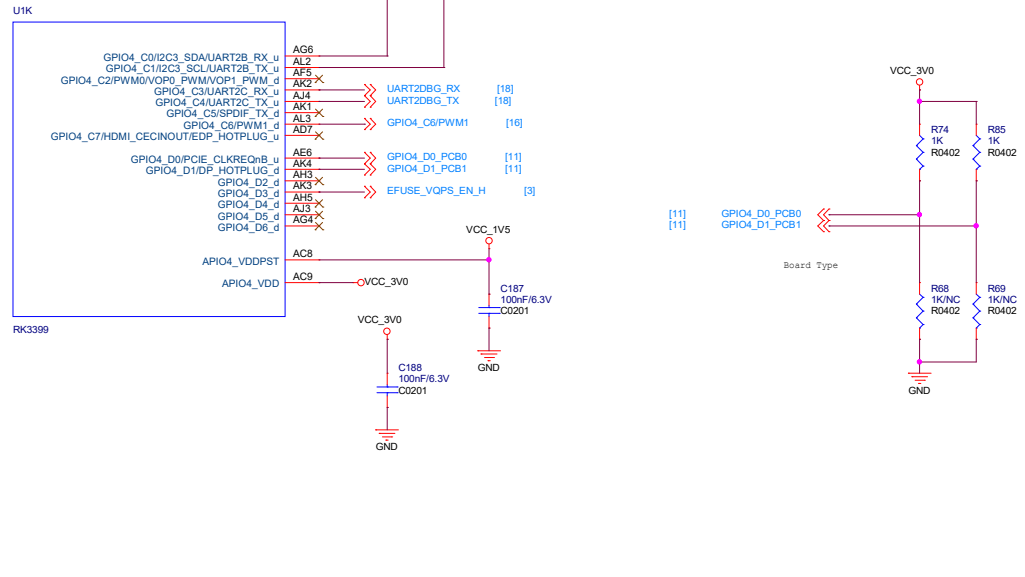


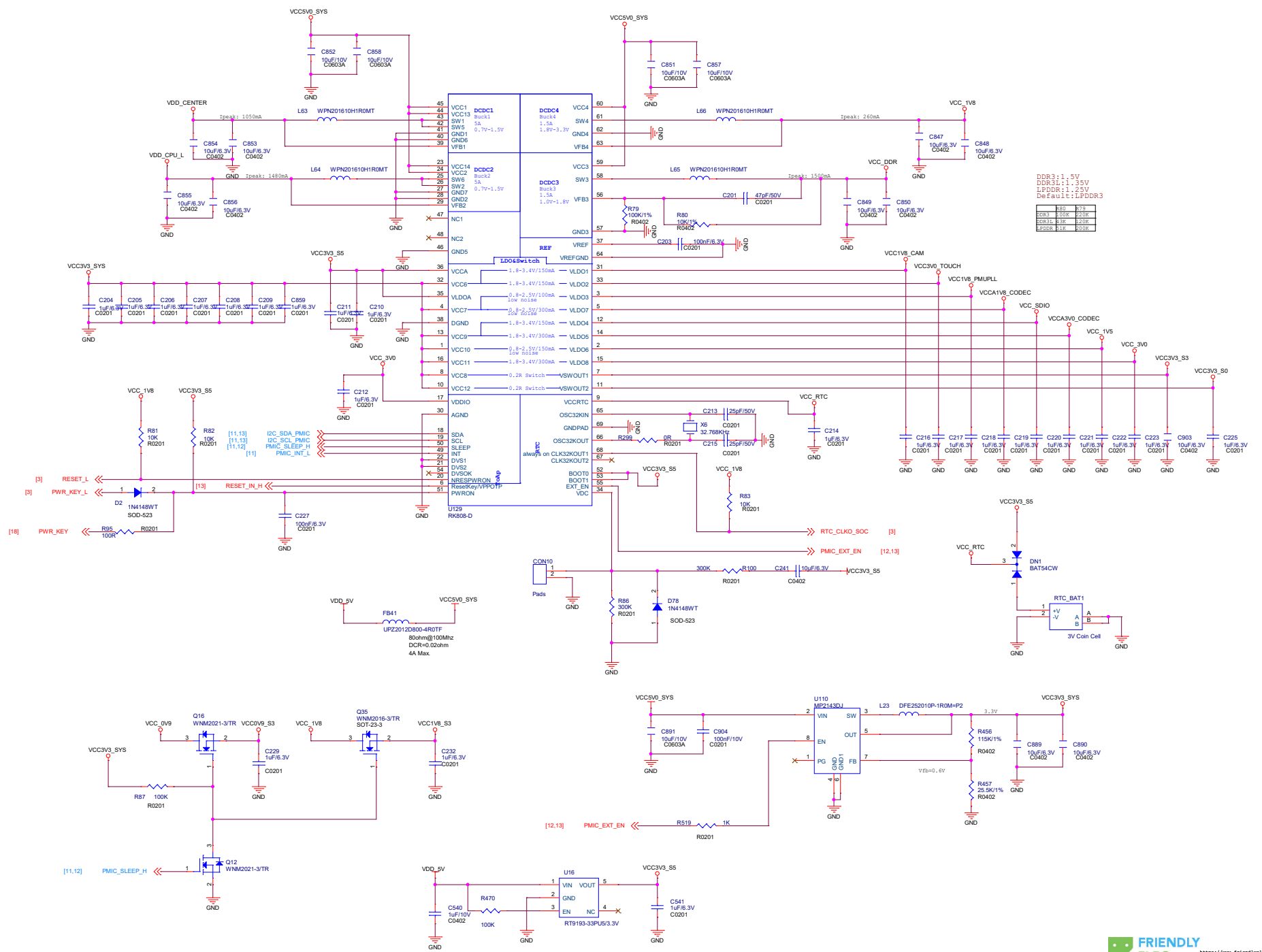






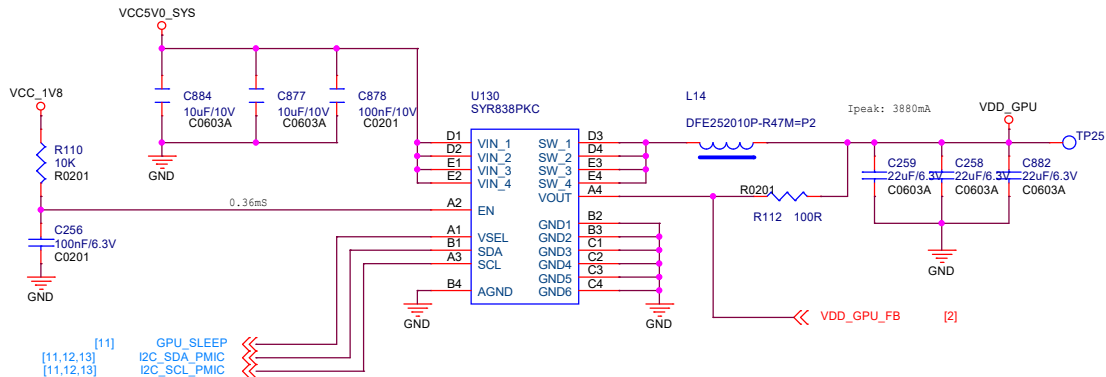
1.8V Only	VDDPST=VDDIO=1.8V
3.3V Only	VDDPST=1.8V, VDDIO=3.3V
other	3.0V mode: VDDPST=1.5V, VDDIO=3.0V 1.8V mode: VDDPST=1.8V, VDDIO=1.8V



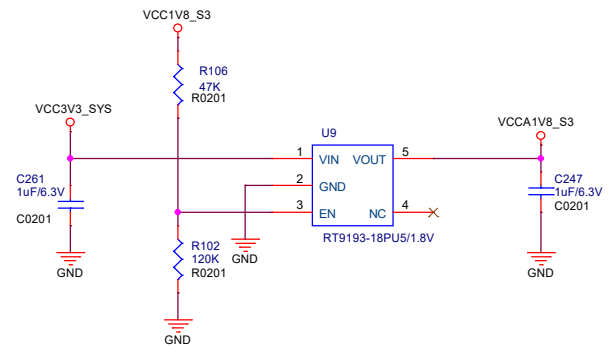
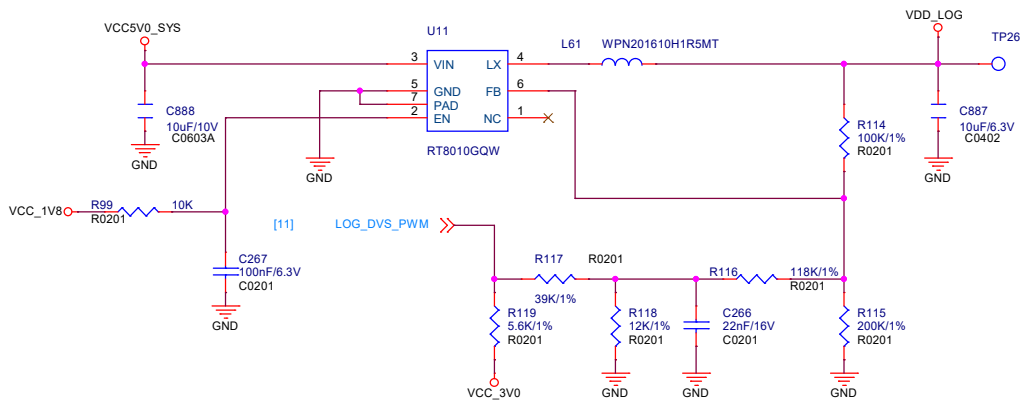
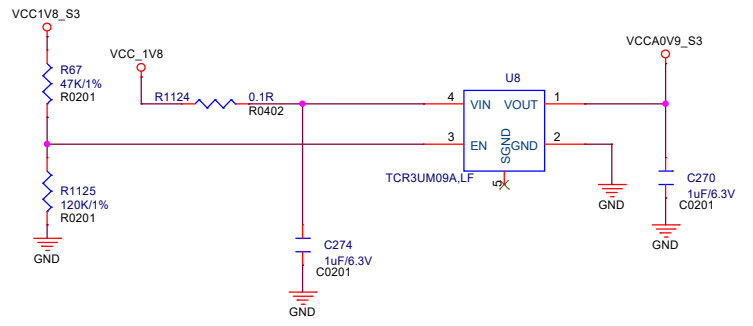
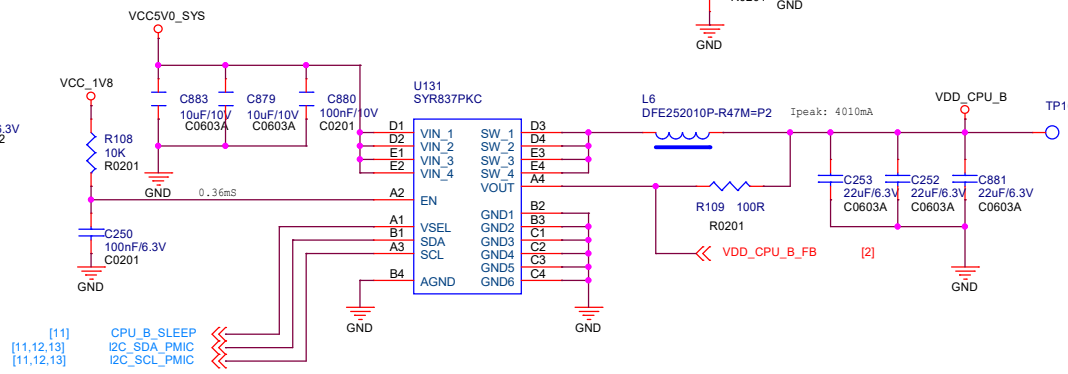
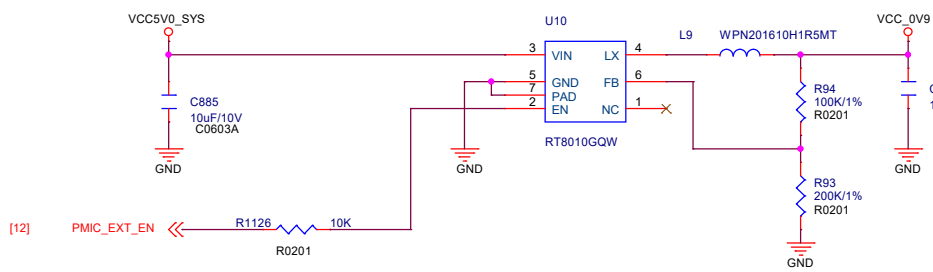
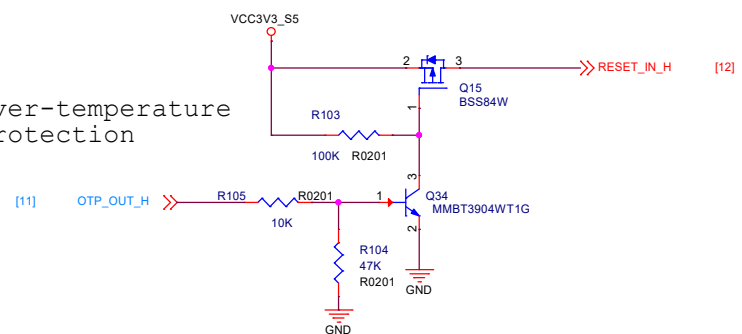


DDR3:1.5V  
 DDR3L:1.35V  
 LPDDR:1.25V  
 Default:LPDDR3

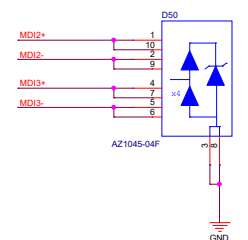
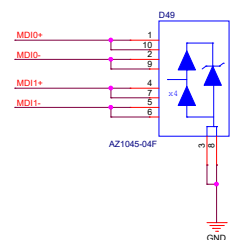
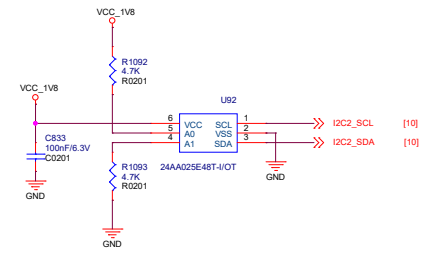
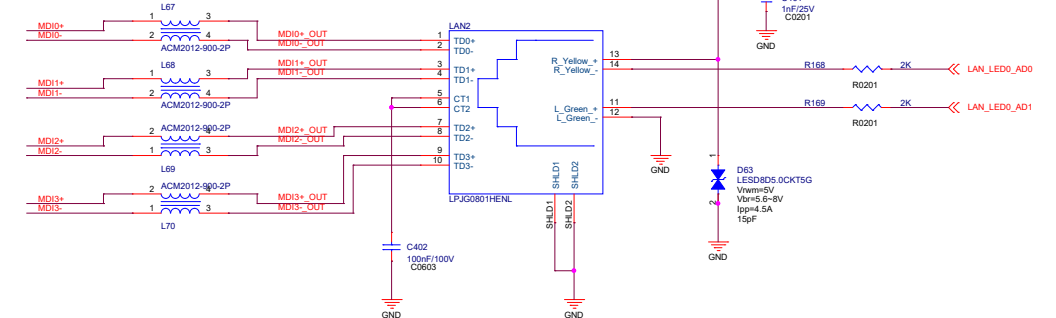
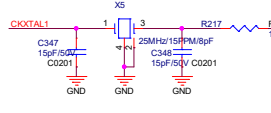
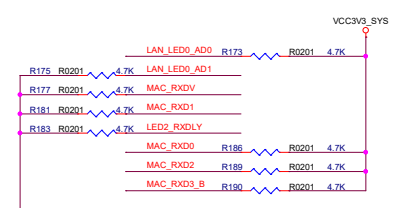
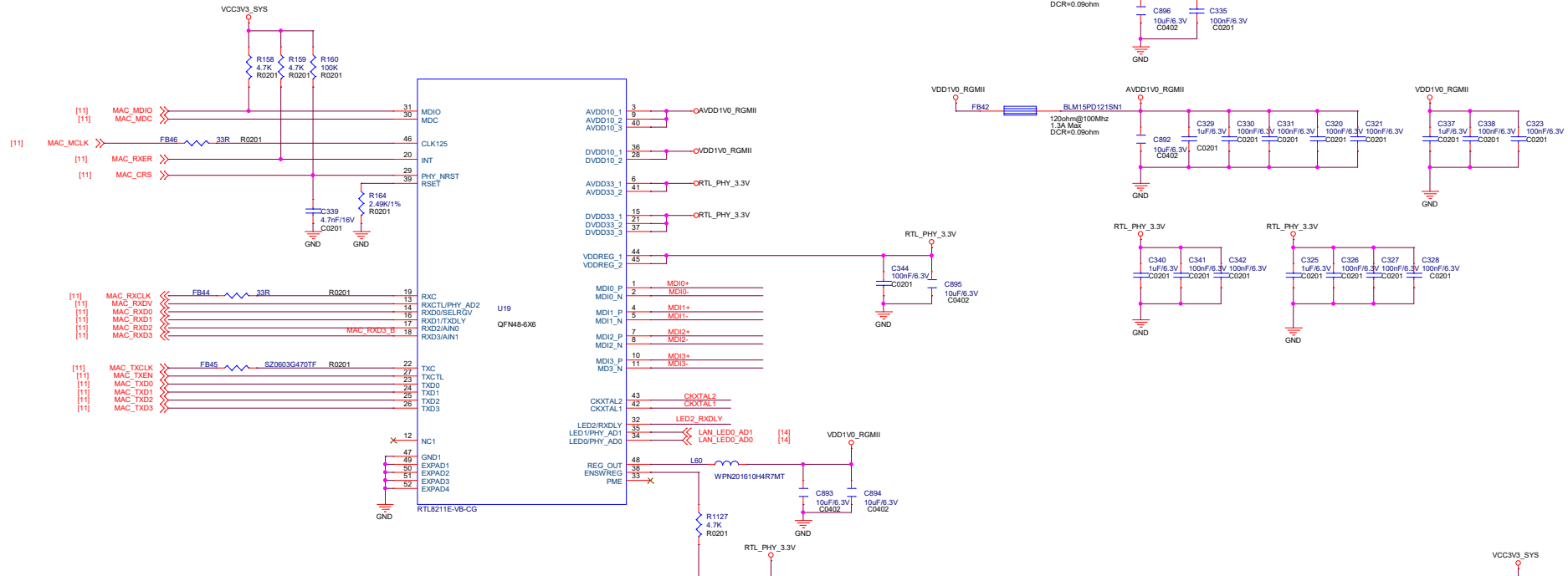
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R81	R20
R82	R21
R83	R22
R84	R23
R85	R24

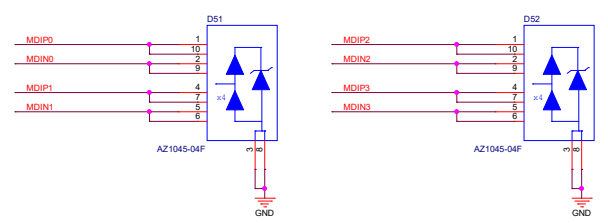
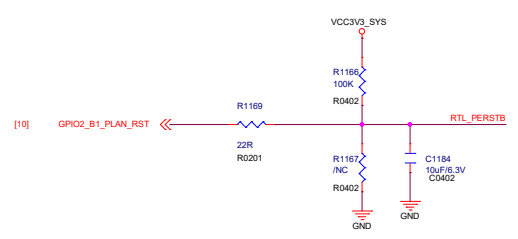
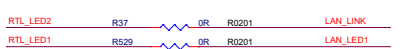
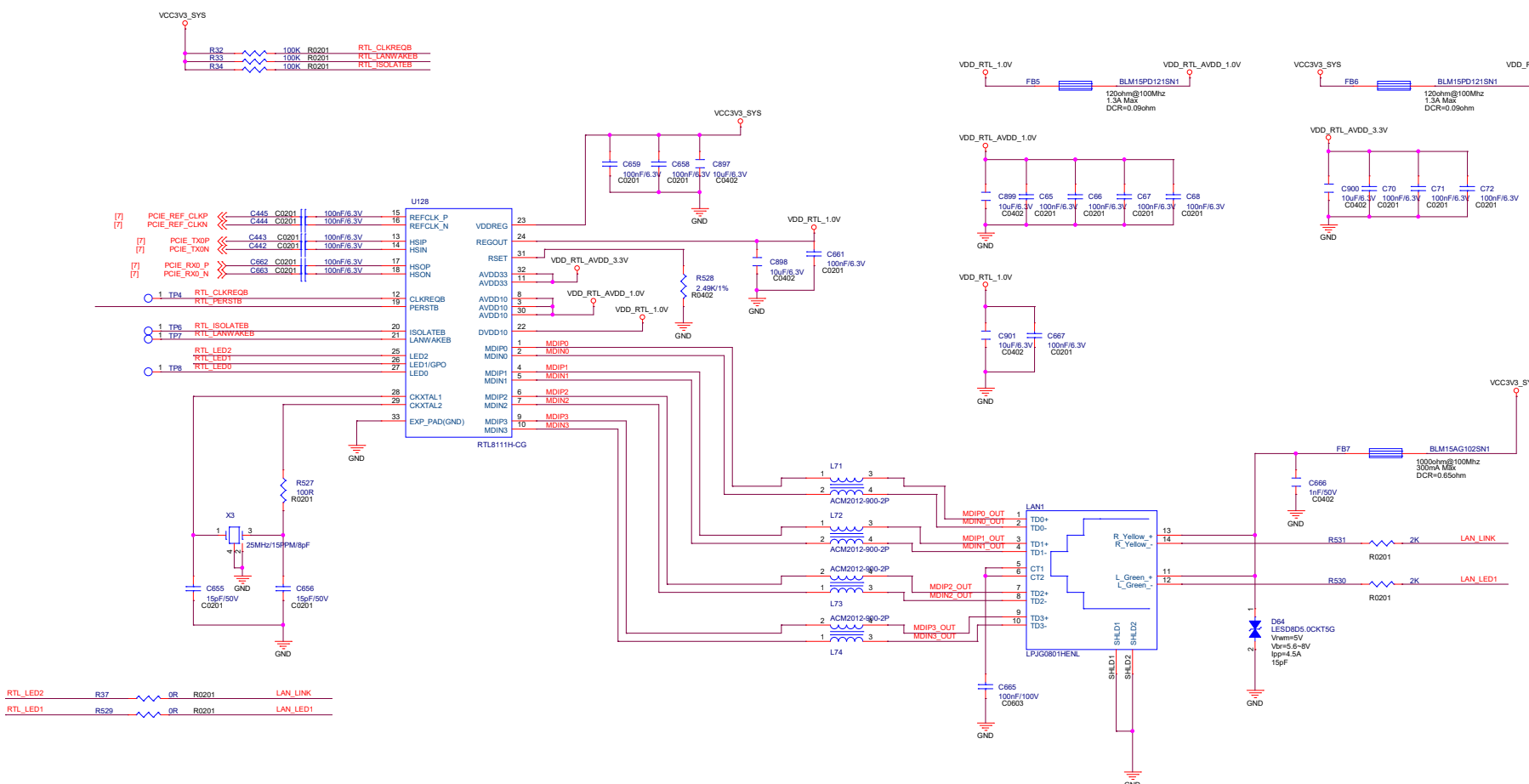


### Over-temperature Protection

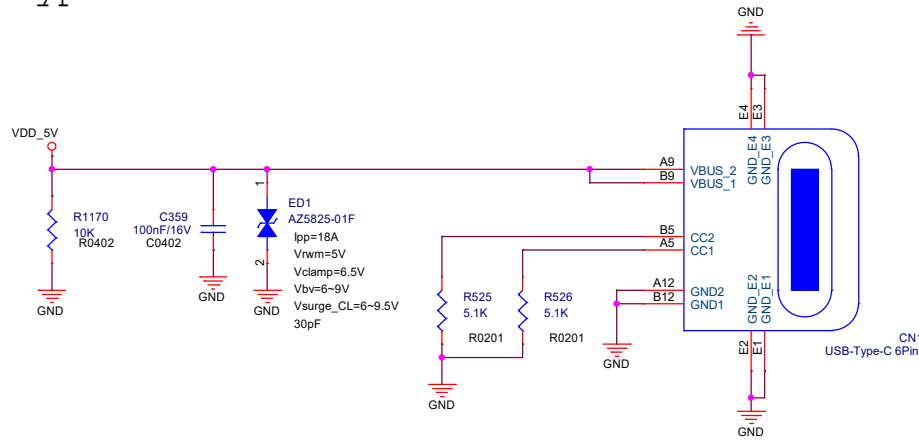


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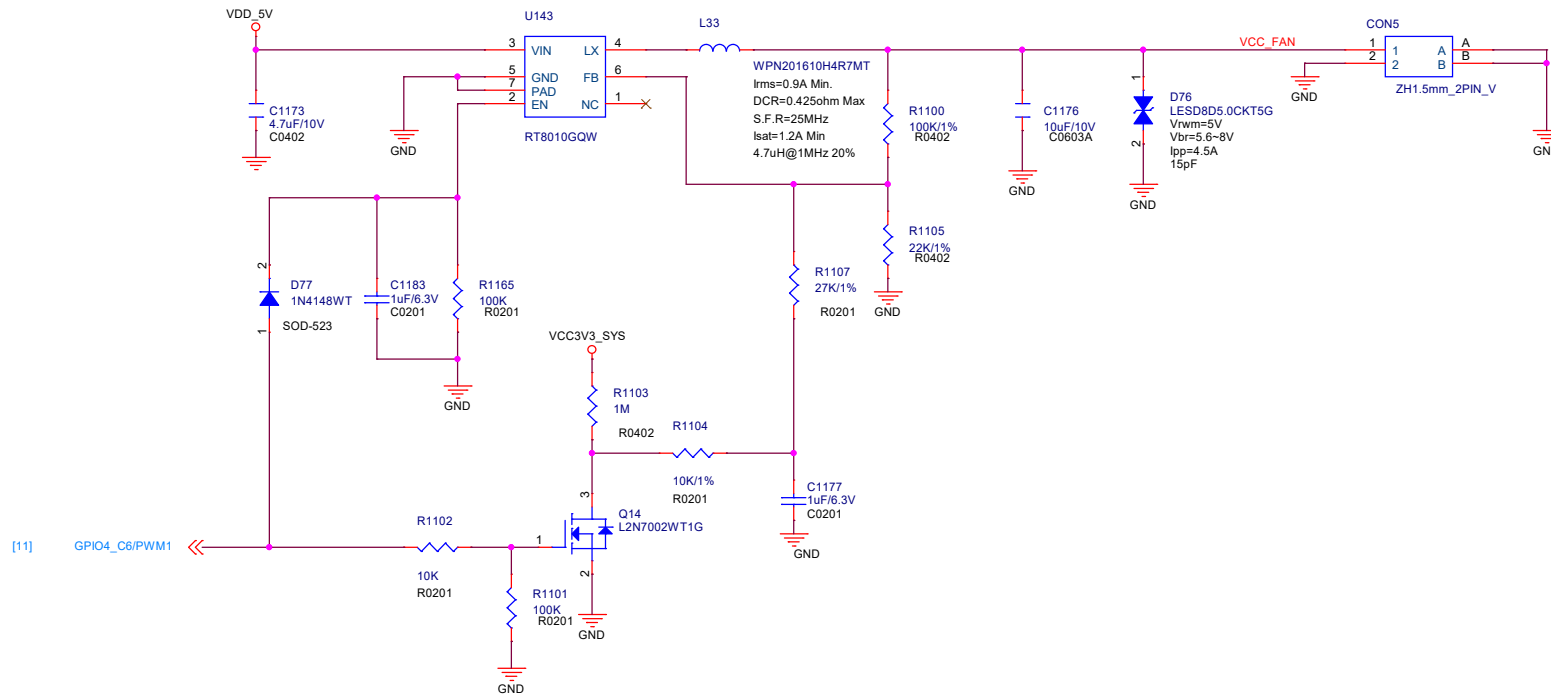




# USB Type-C



# FAN





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D

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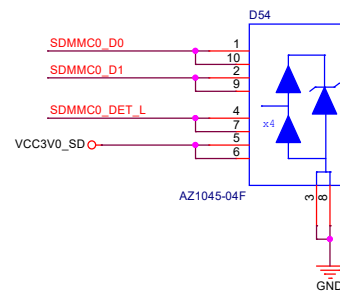
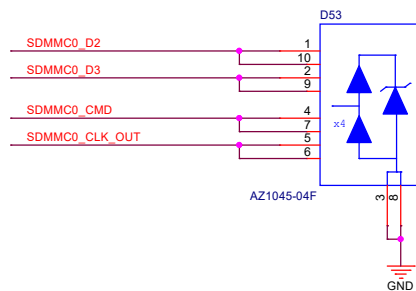
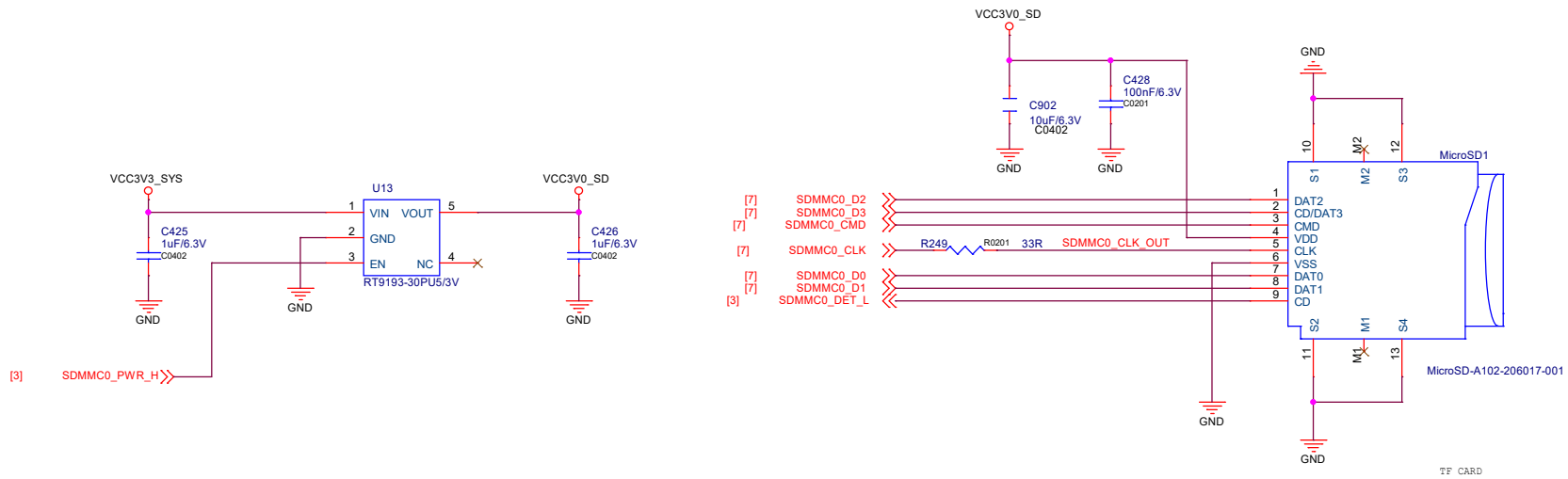
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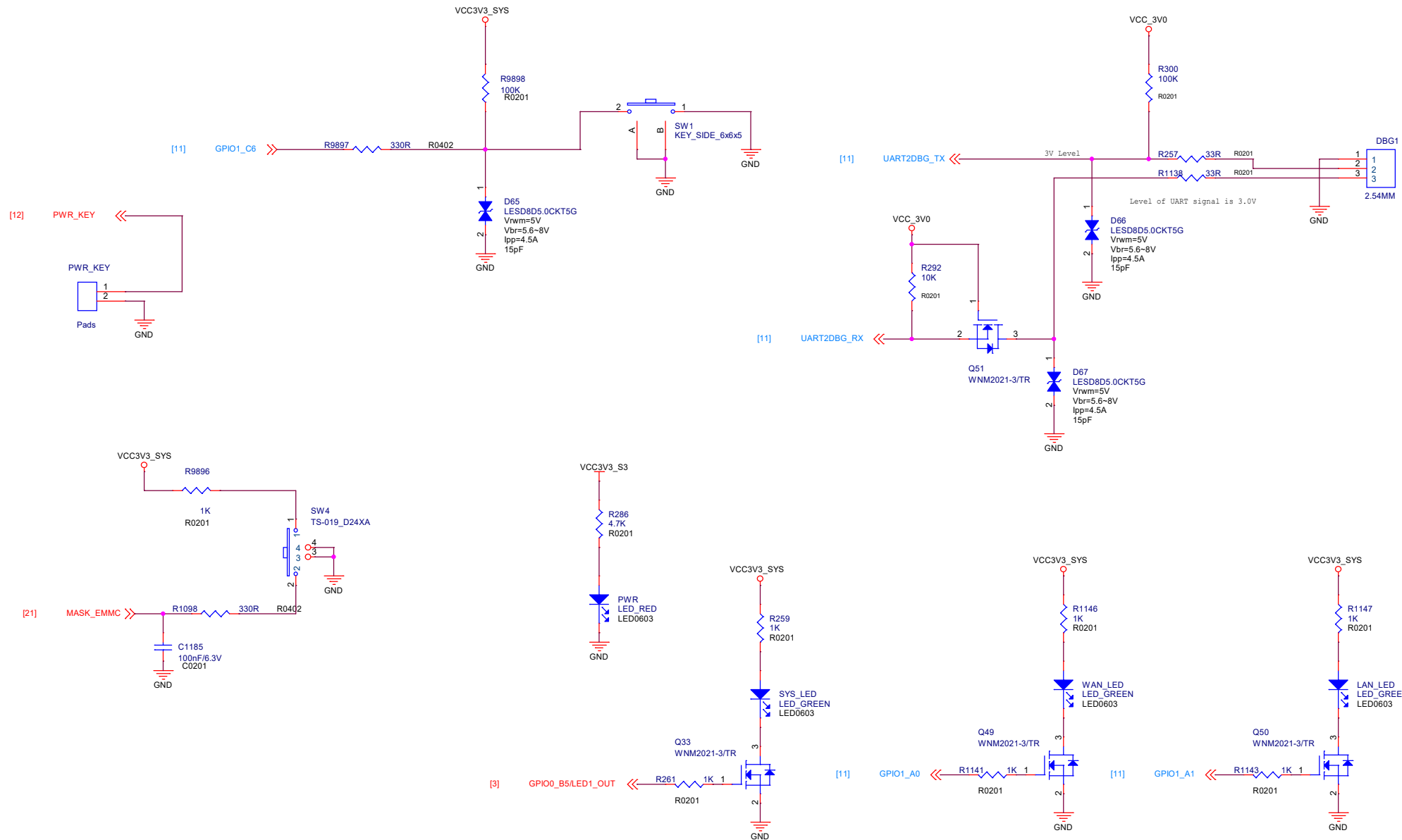
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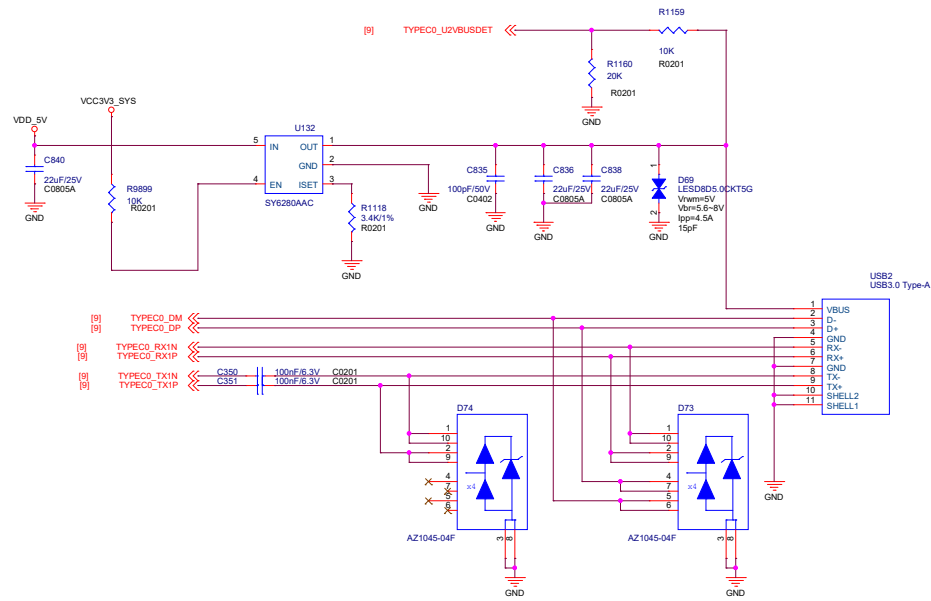
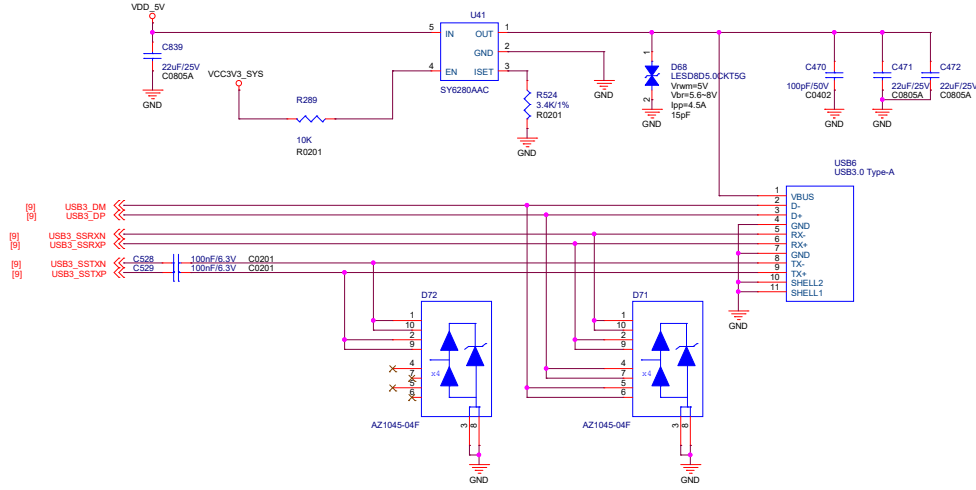
A

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USB3.0 Host



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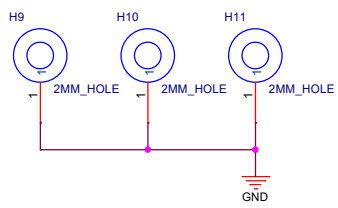
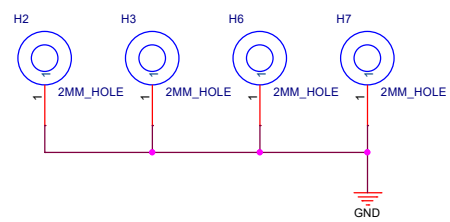
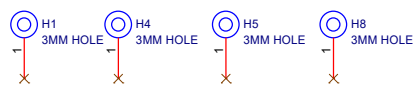
3

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D

D



C

C

B

B

A

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