

HiFive Unmatched Schematics

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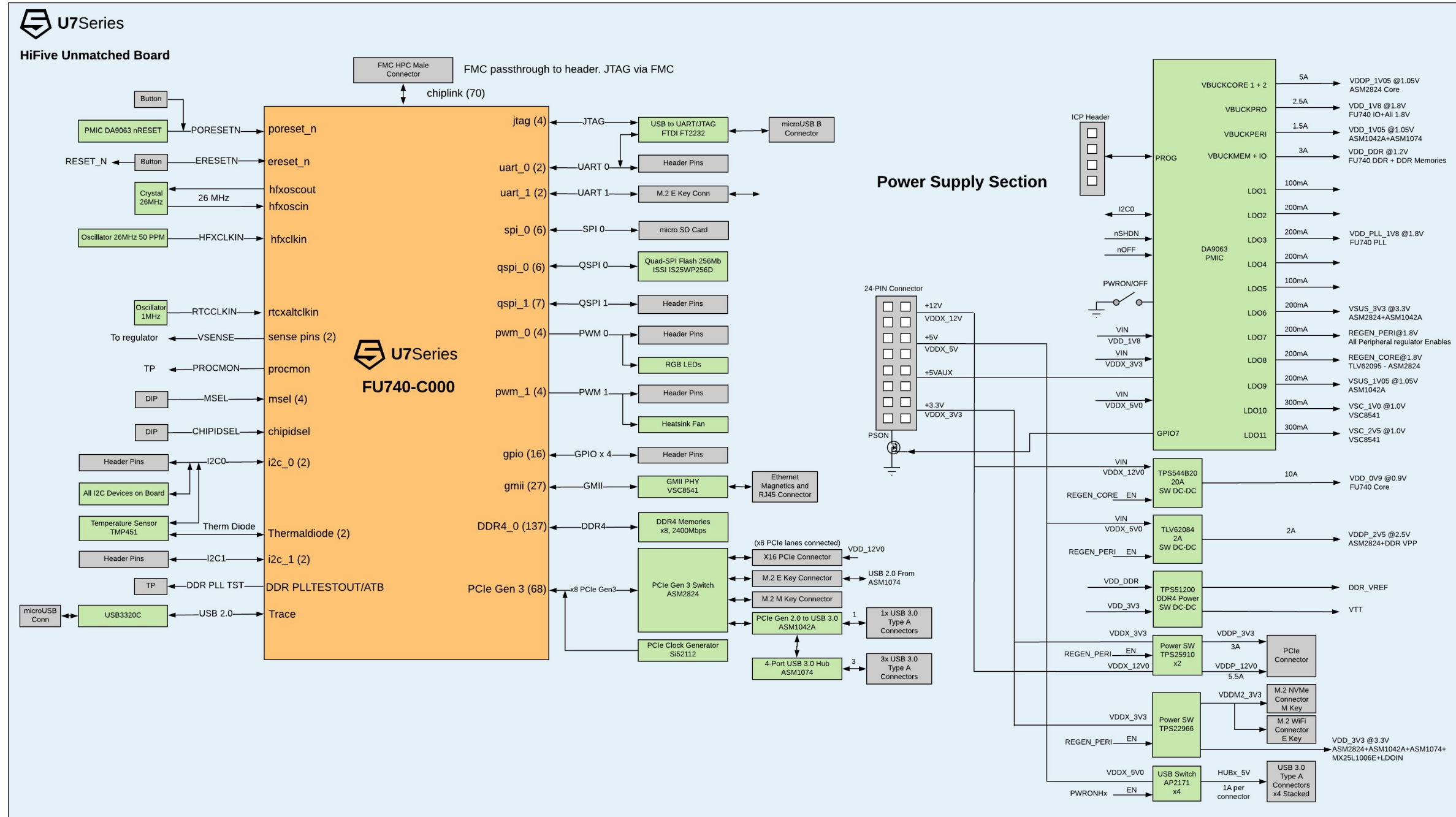
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HiFive Unmatched



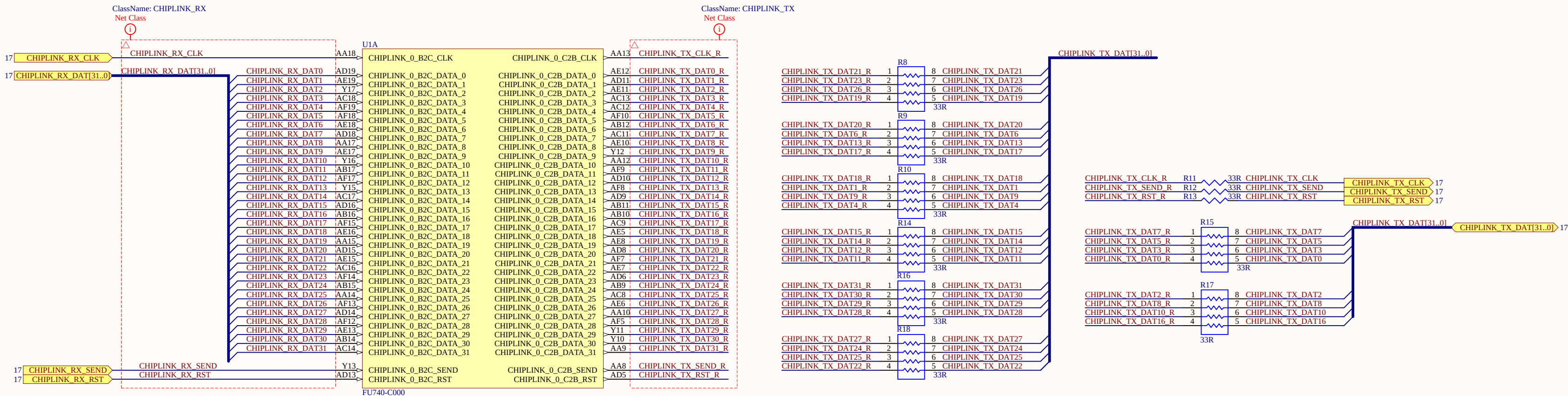
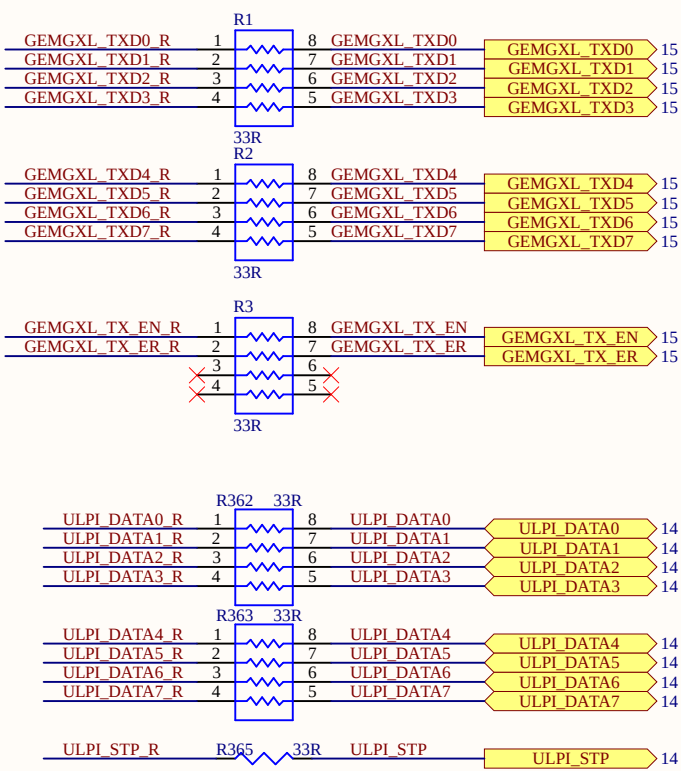
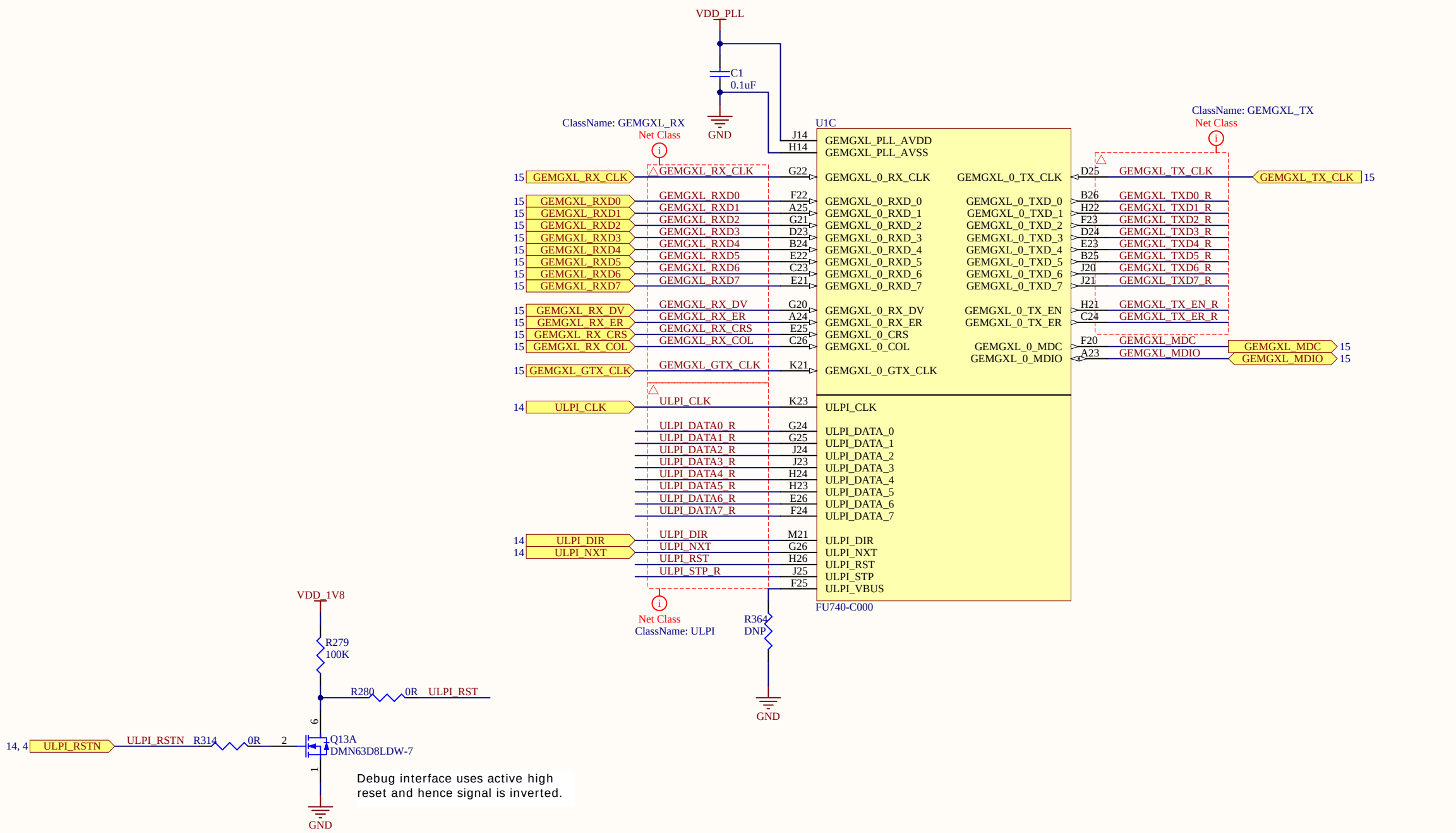
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A

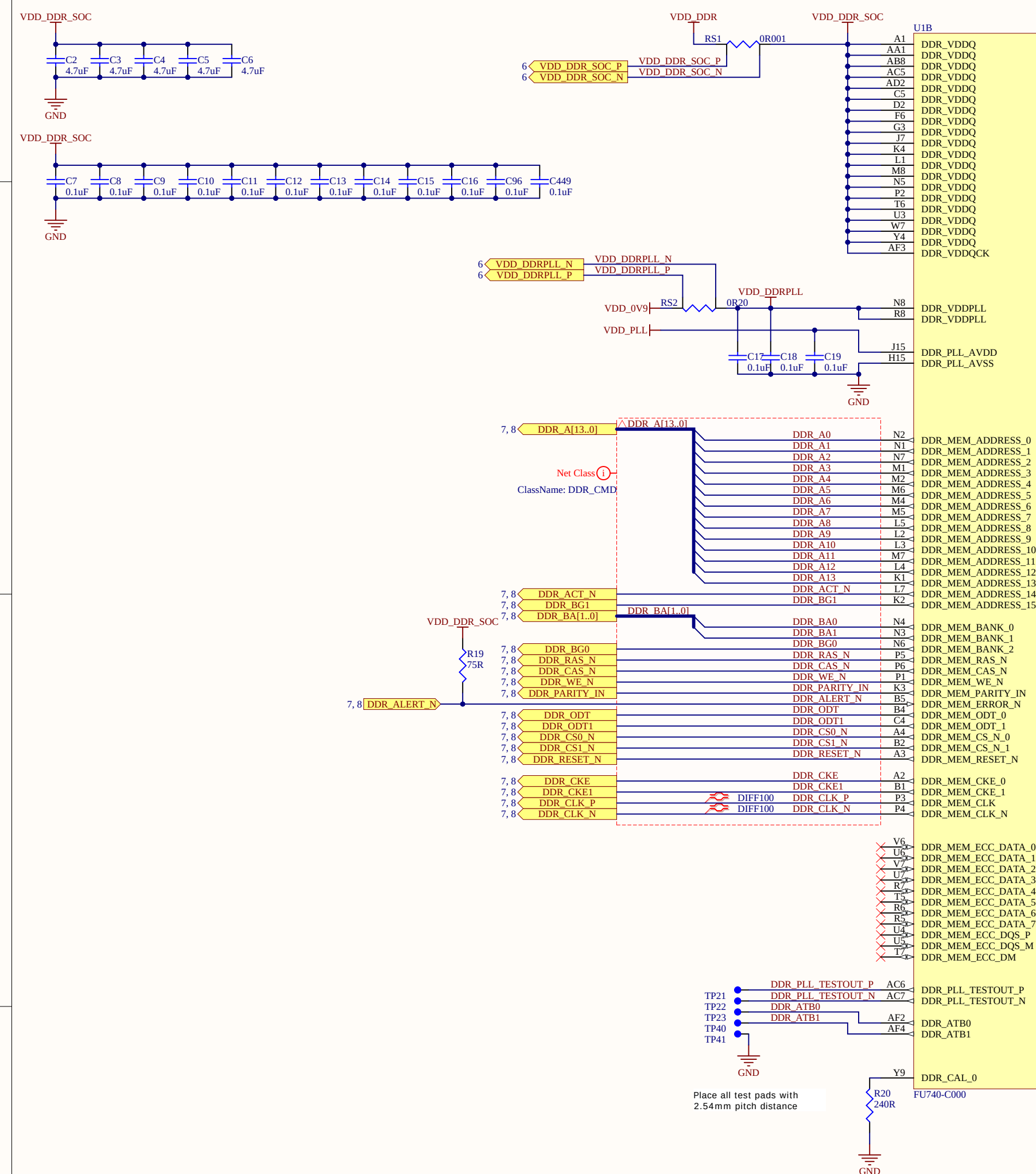
B

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D



A



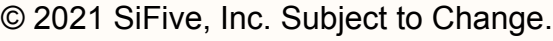
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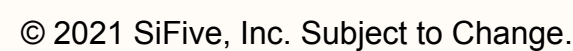
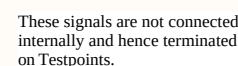
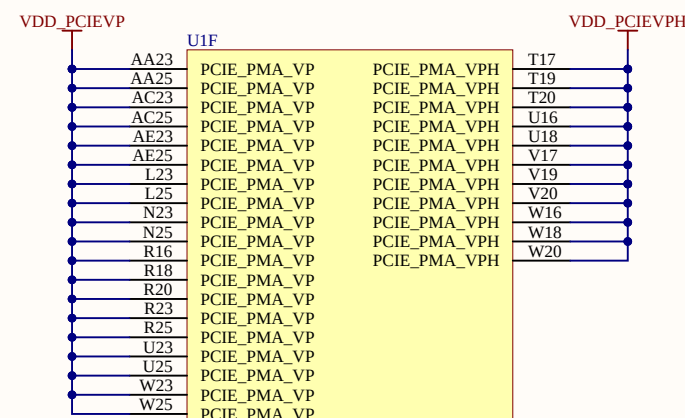
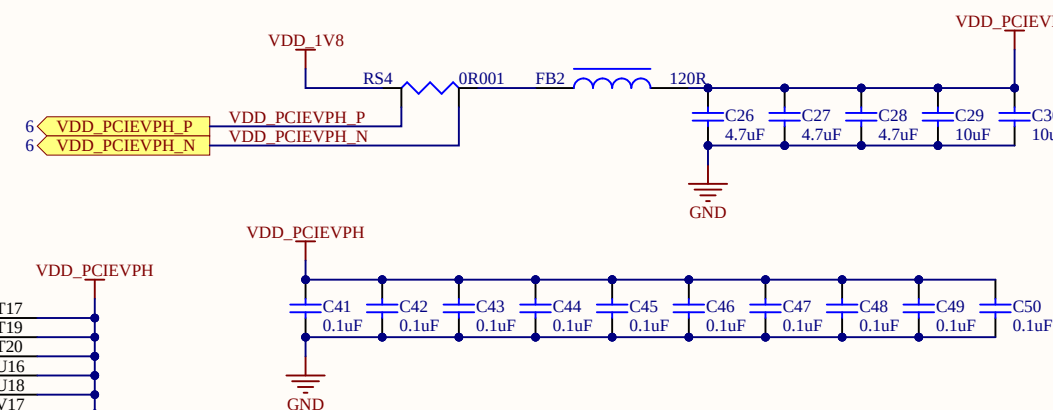
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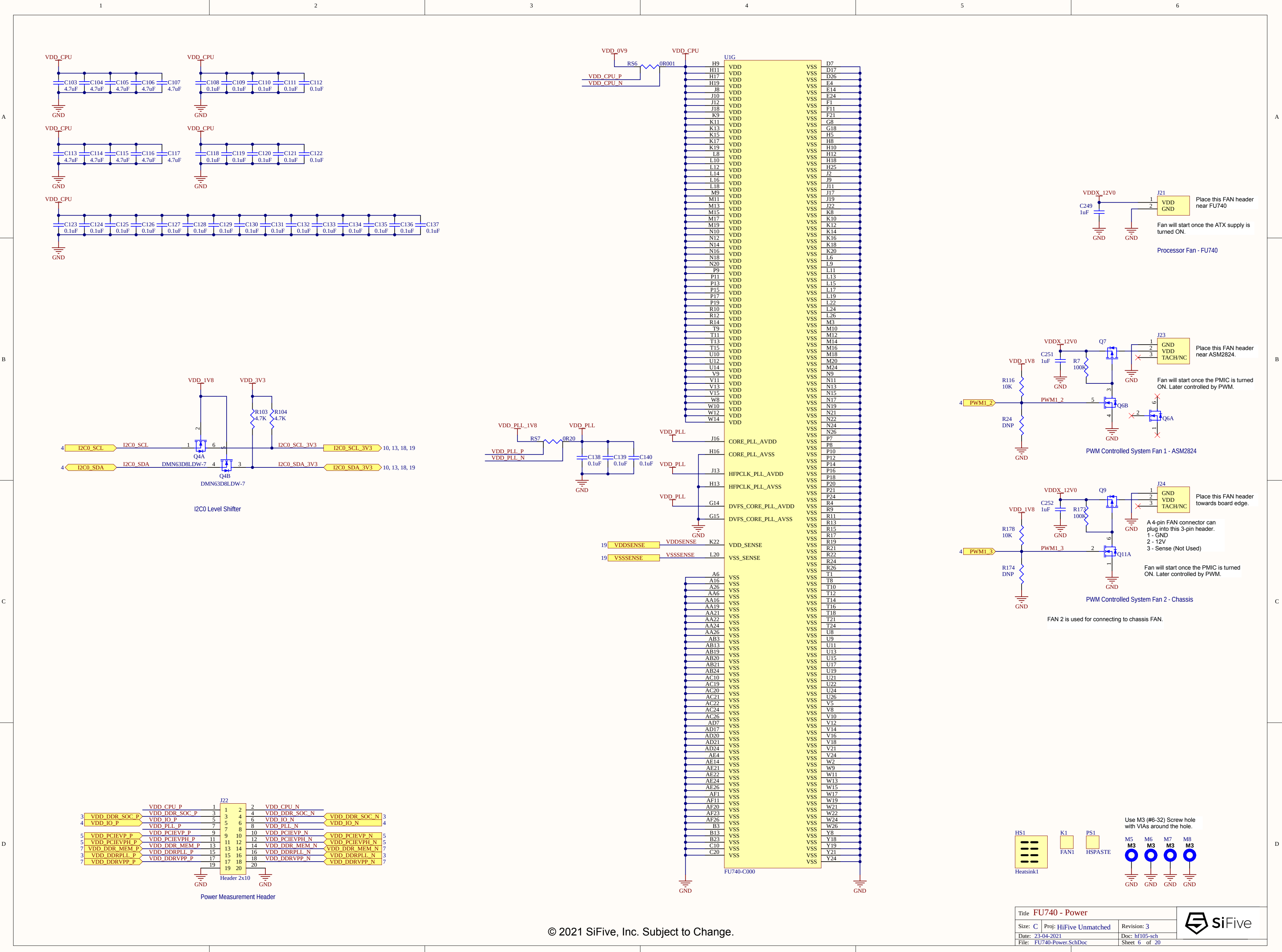
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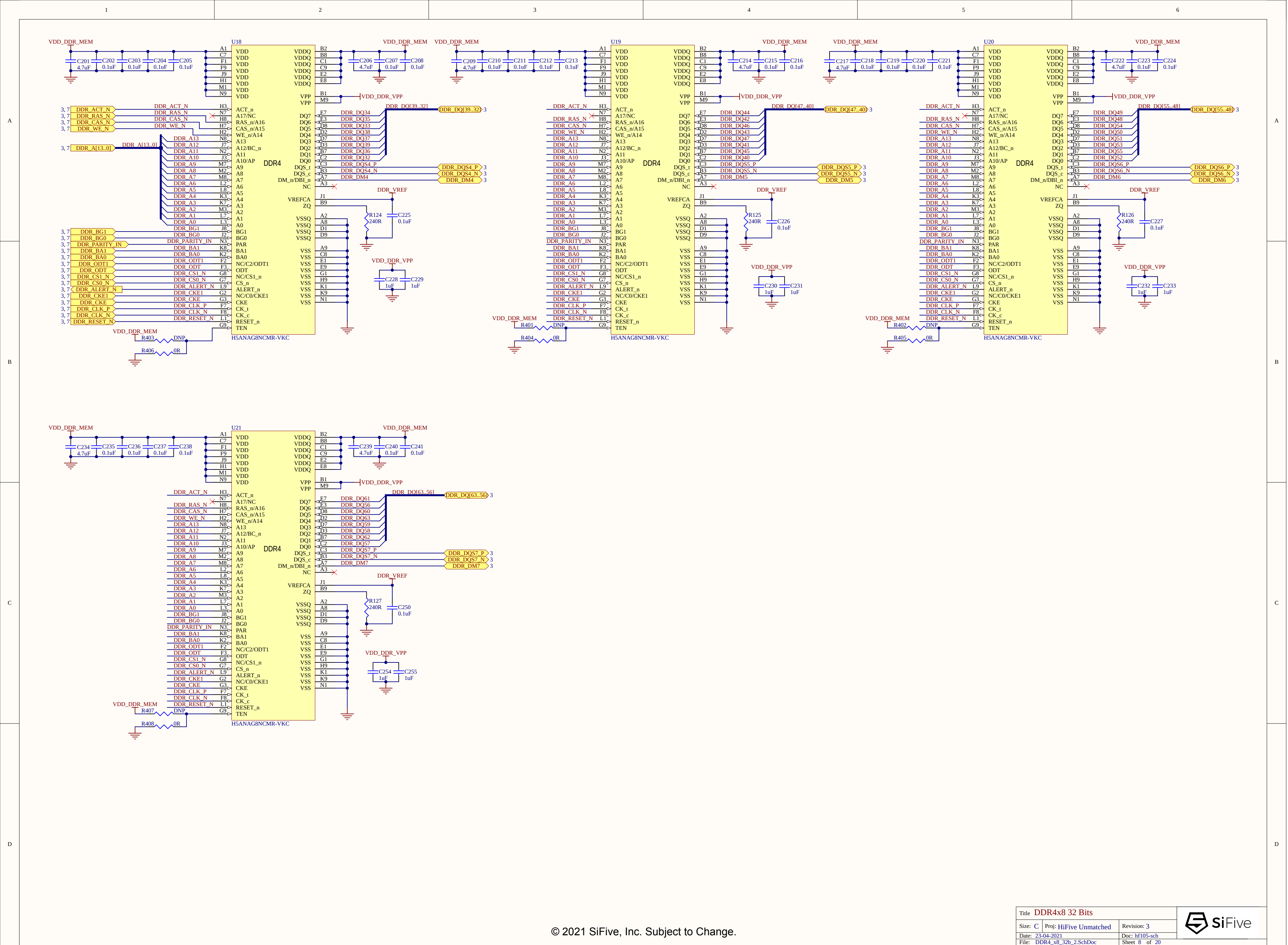
C

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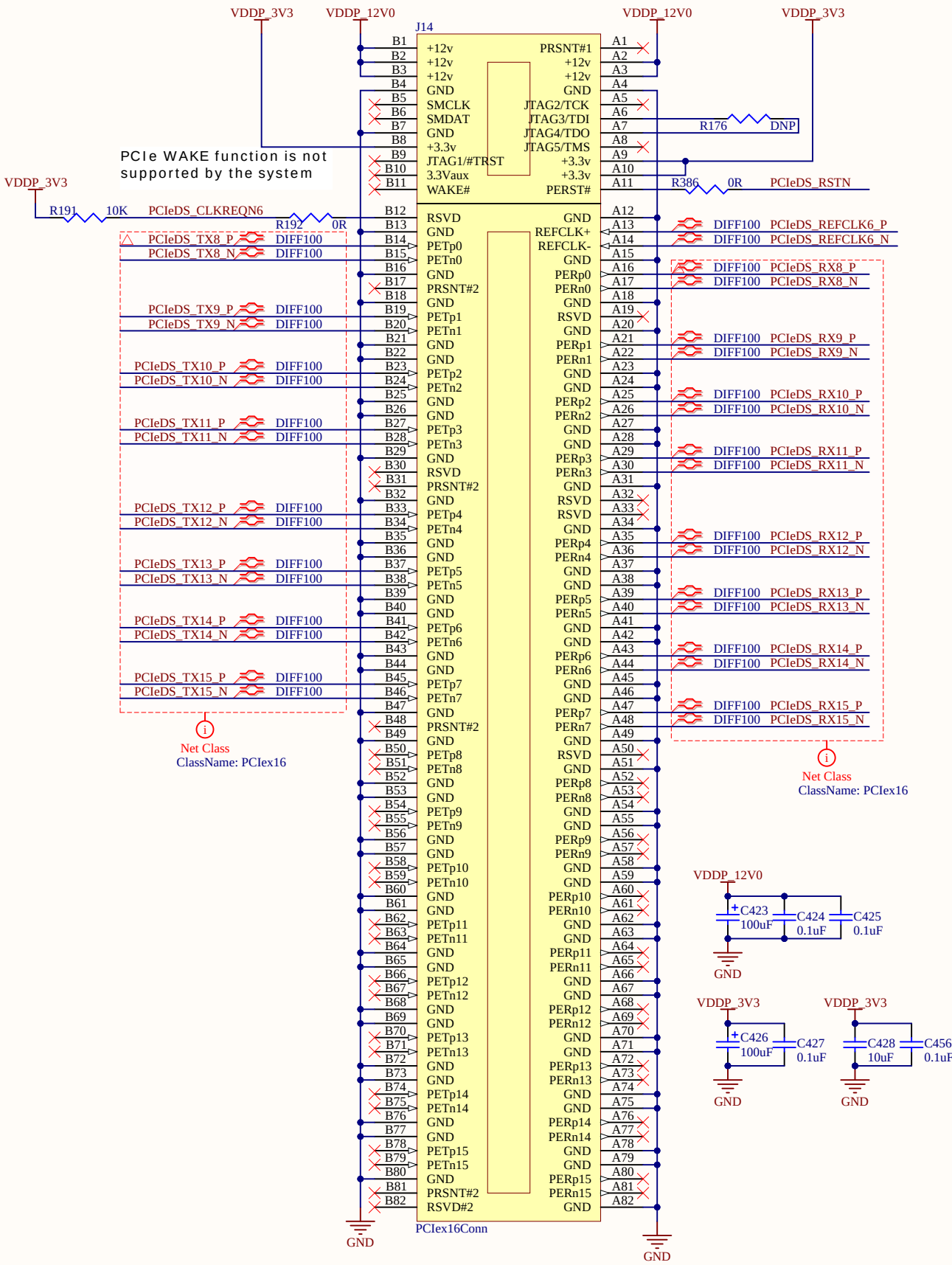








PCle Connector x16 - Root Complex



Please contact Asmedia for ASM2824 Section schematics

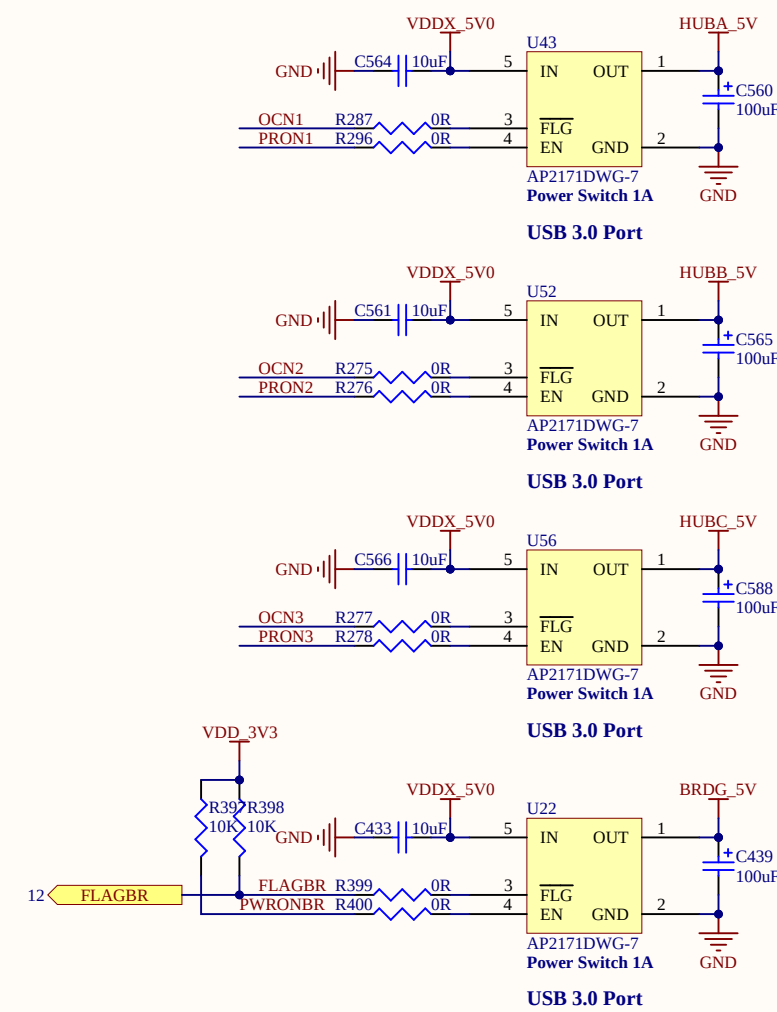
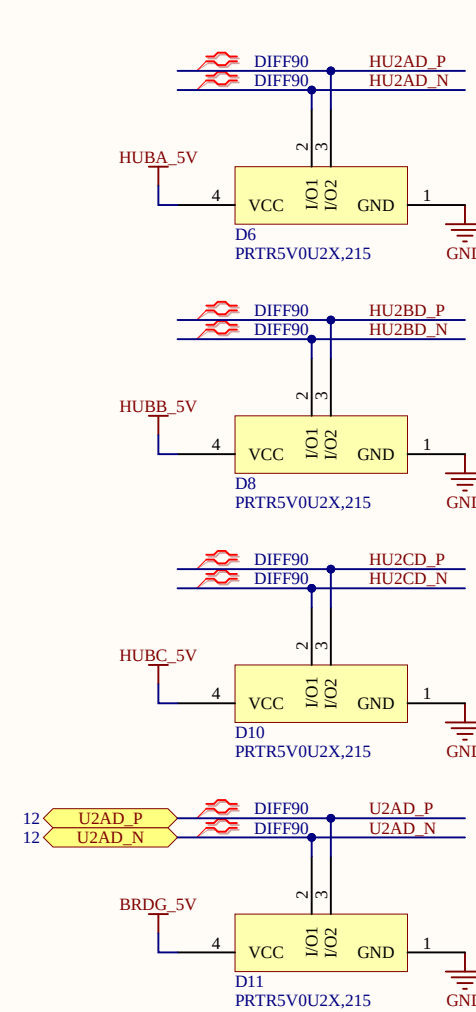
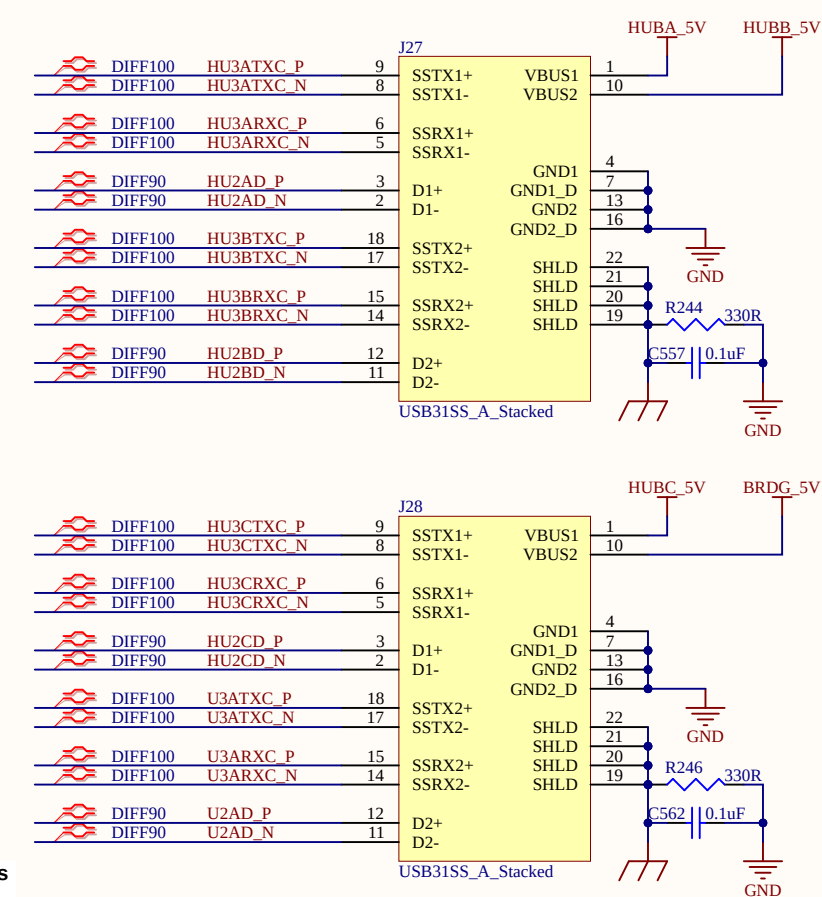
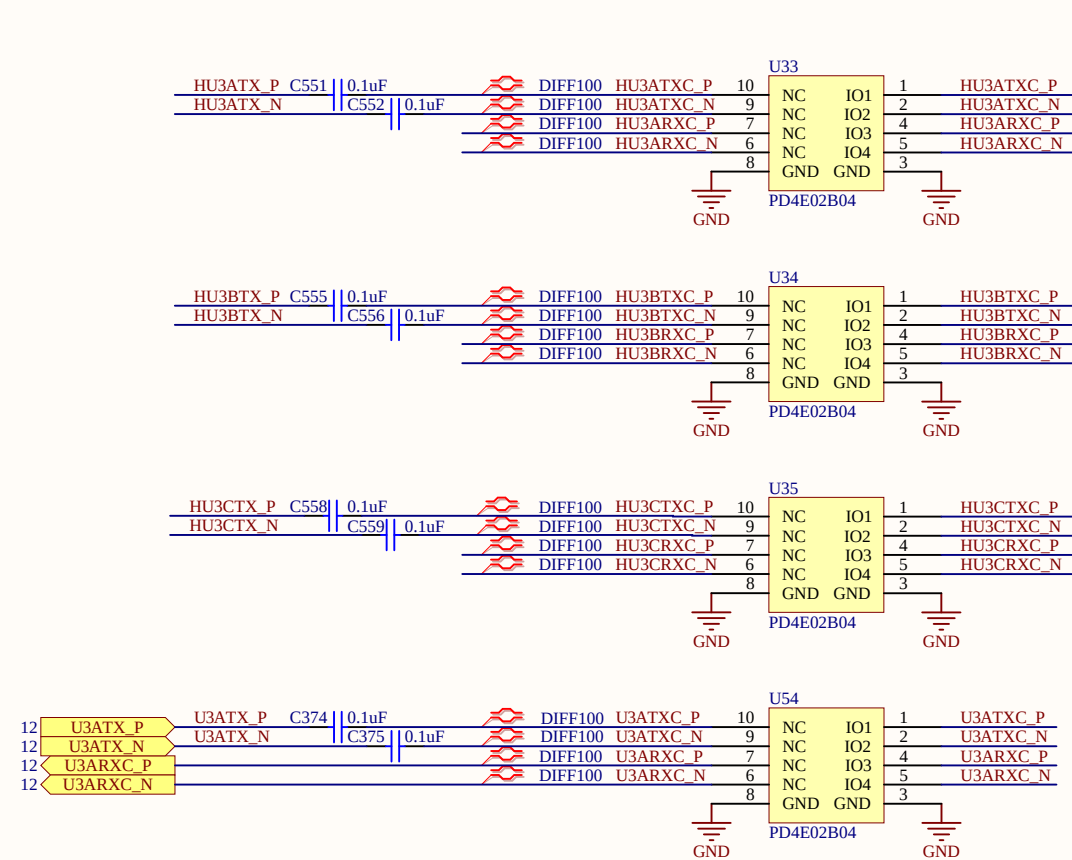


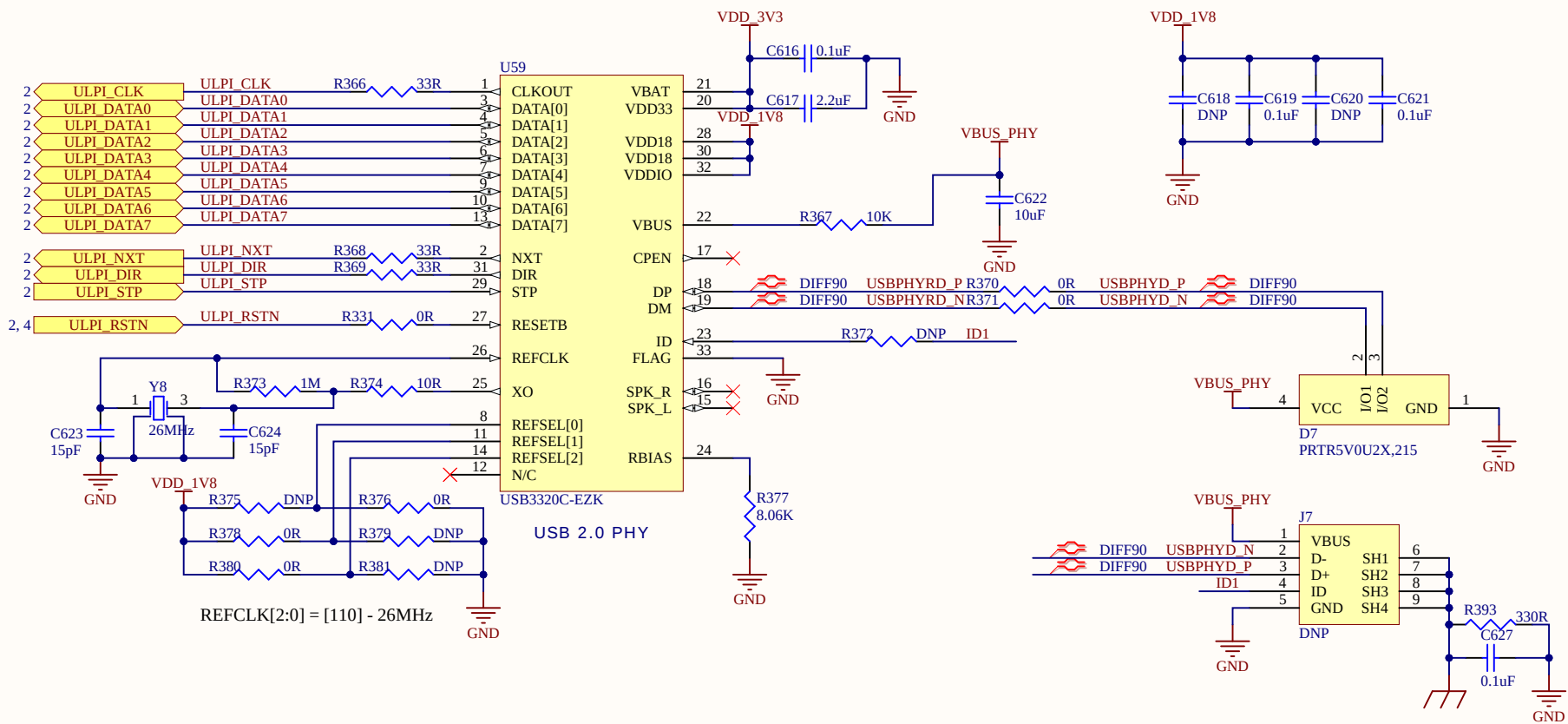
Please contact Asmedia for ASM2824 Section schematics

1	2	3	4	5	6
A					
B					
C					
D					

Please contact Asmedia for ASM1042A-48 Section schematics

Please contact Asmedia for ASM1074 Section schematics





A

B

C

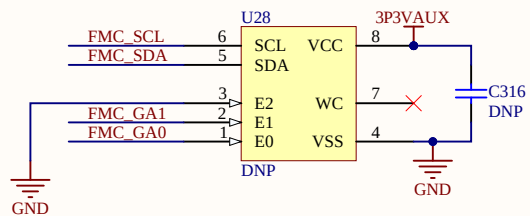
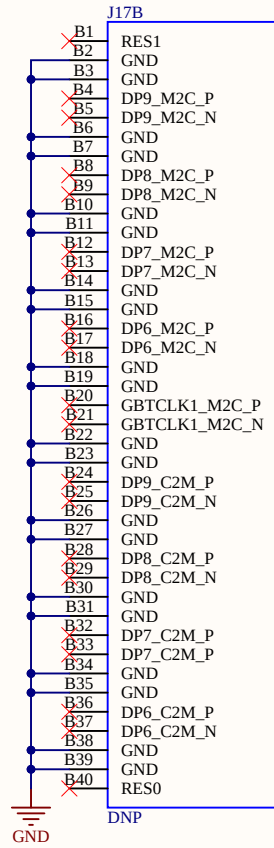
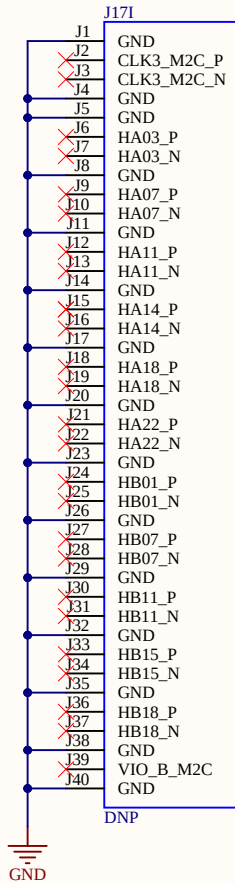
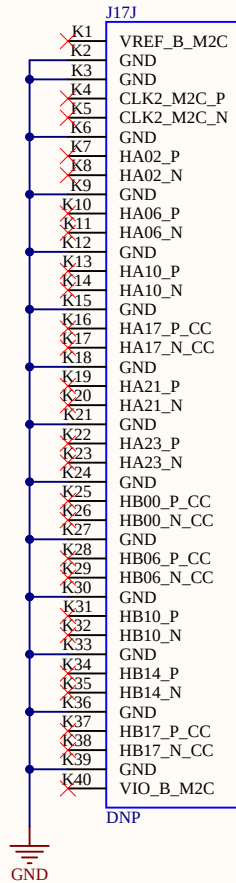
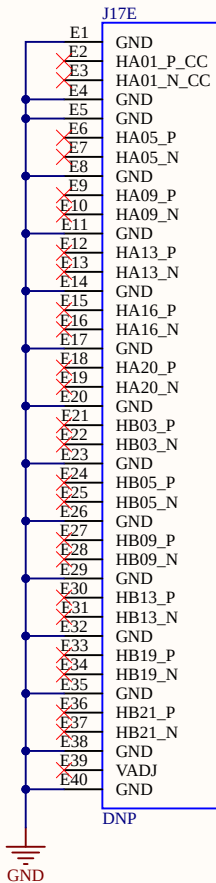
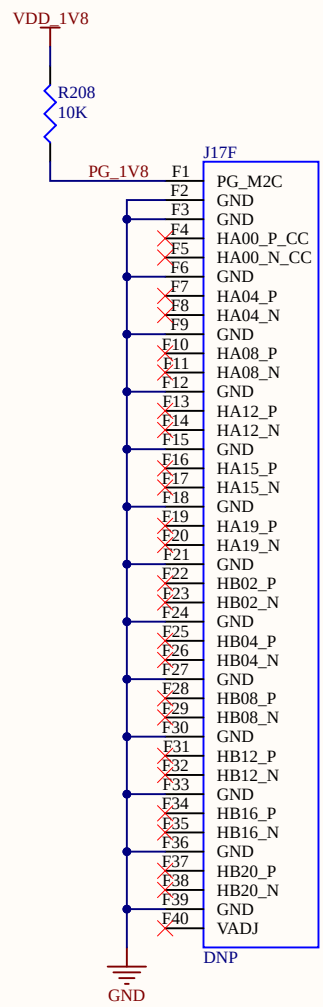
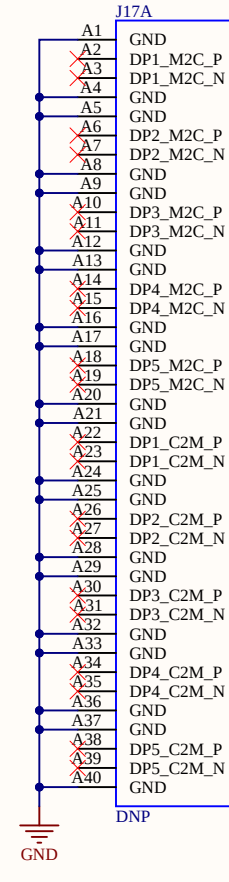
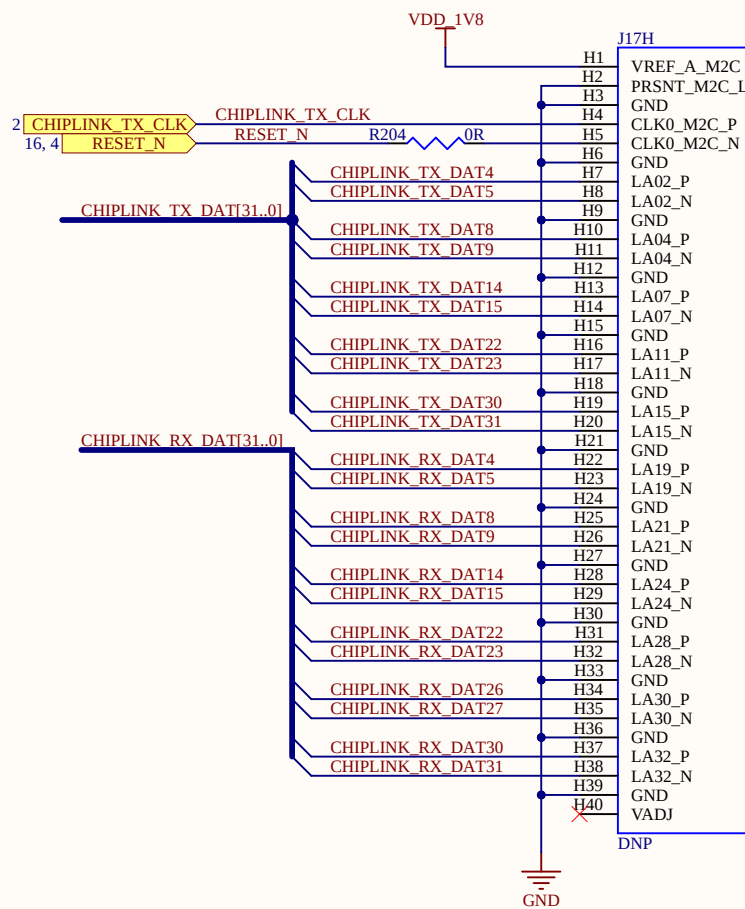
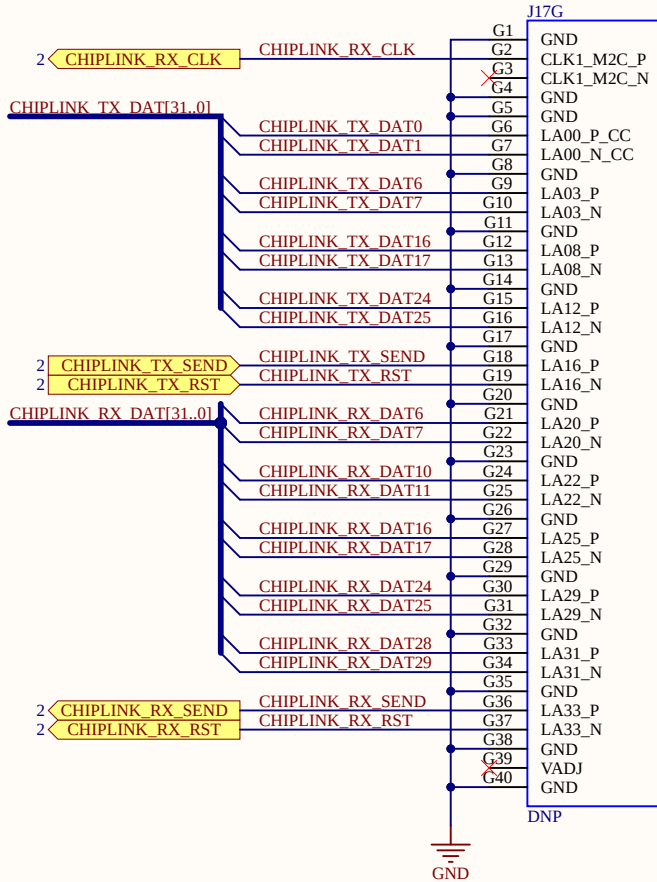
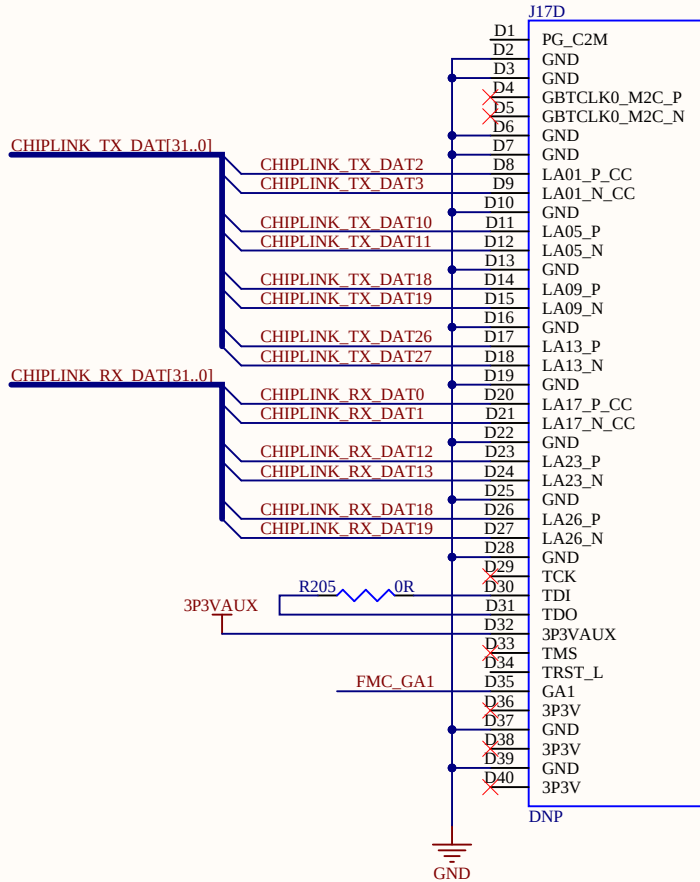
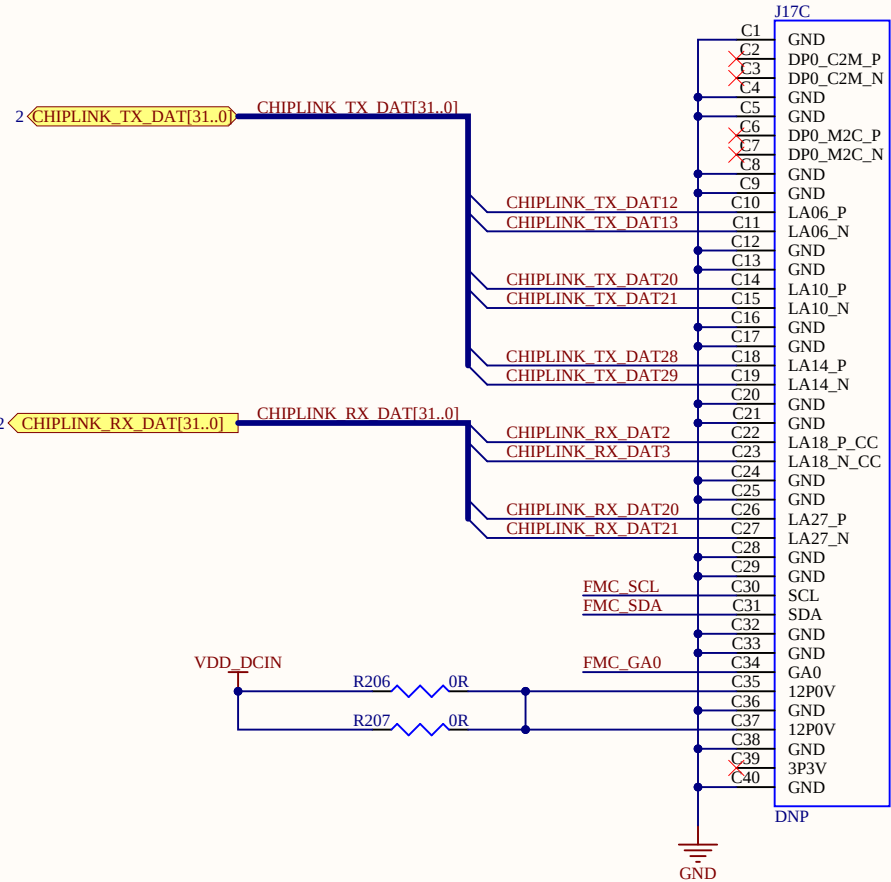
D

A

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A

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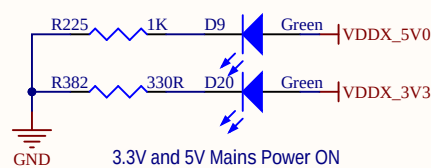
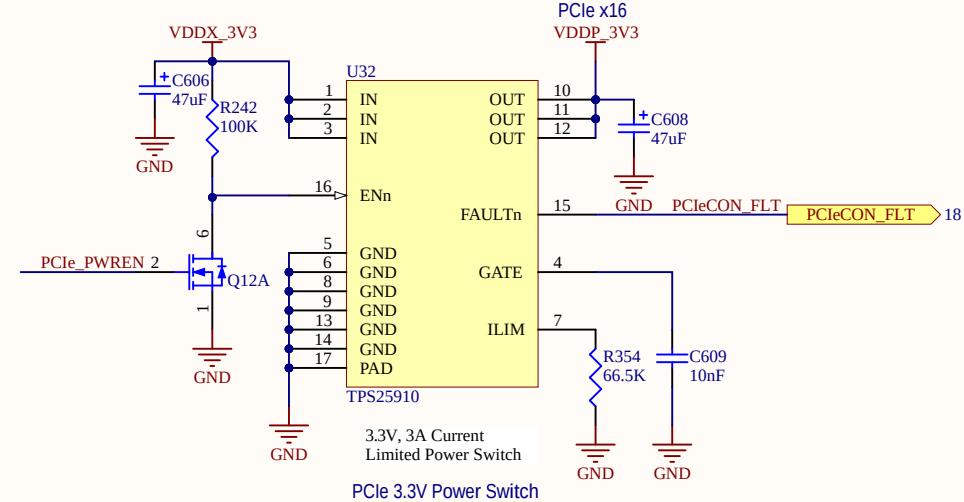
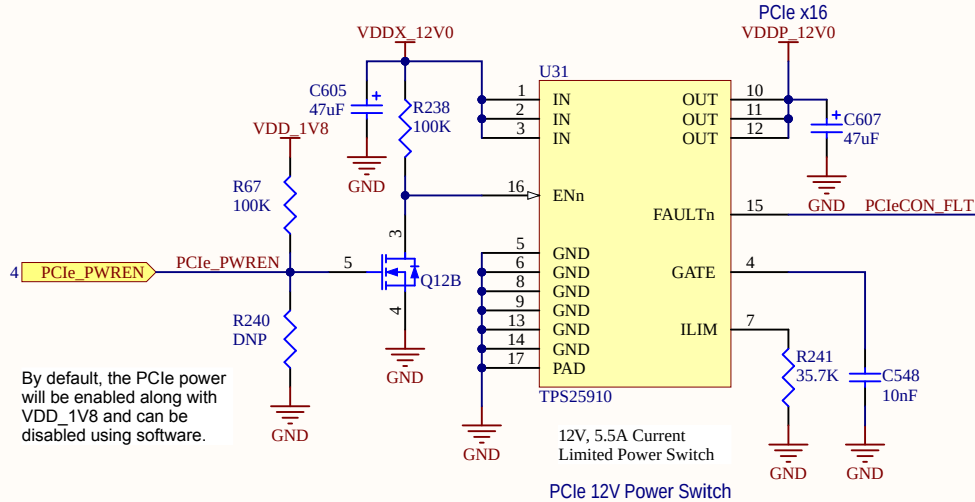
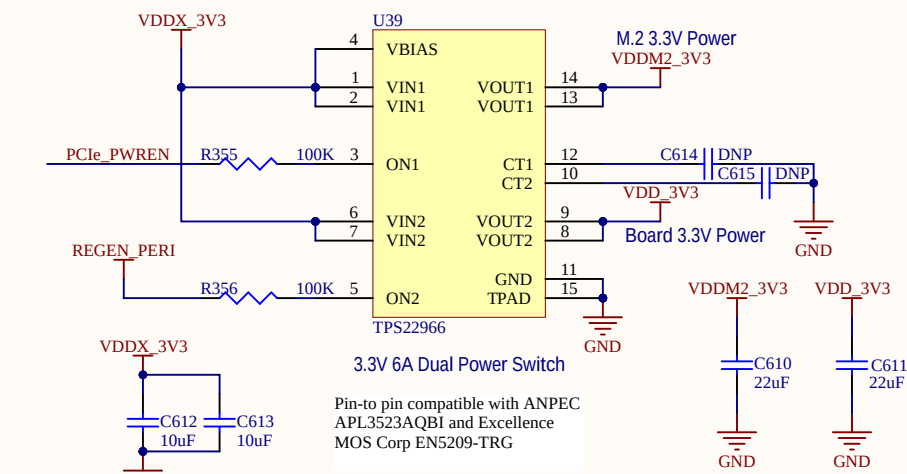
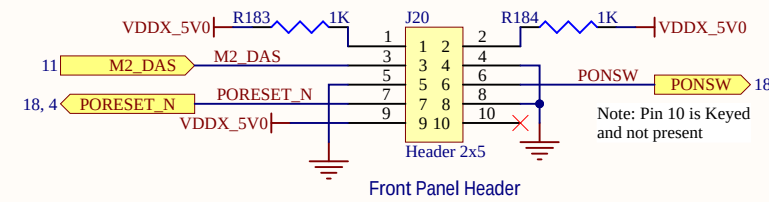
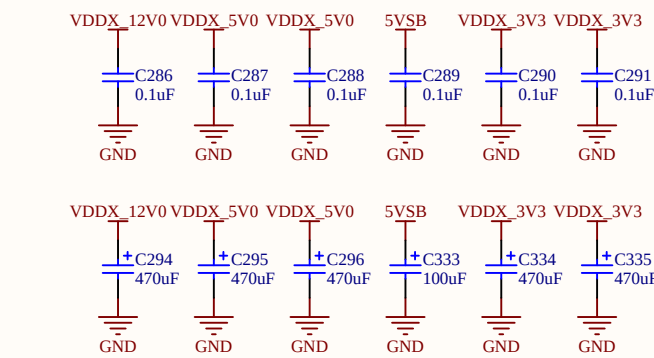
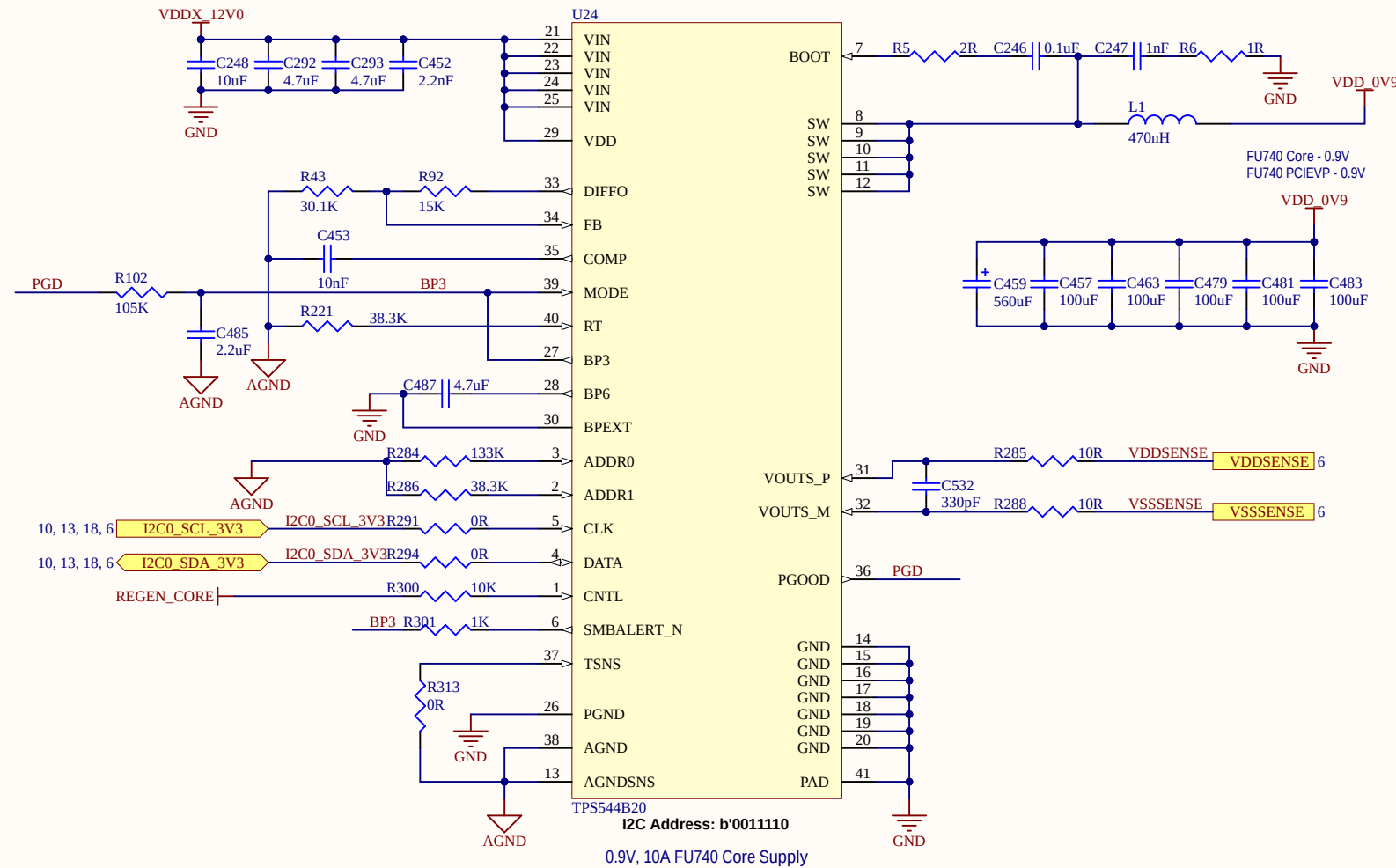
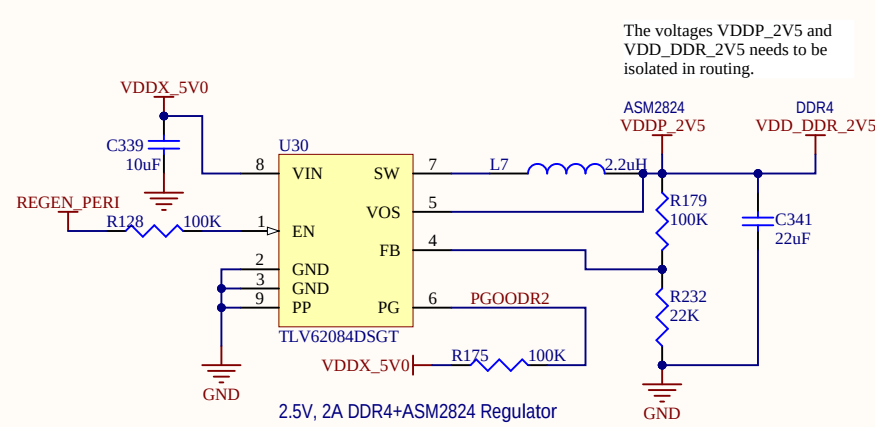
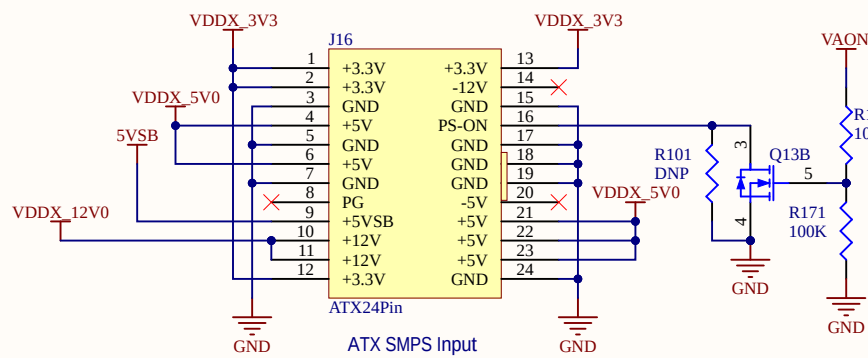
D

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B

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D



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Revision History

Revision 1

18-Aug-2020

- Initial revision

Revision 2

11-Nov-2020

- Removed J12 - I2C0 3V3 Header

- Removed resistors R409, R410, R411, R412, R413 and connect directly

- Removed resistors R414, R415, R416, R417, R418 and connect directly

- Removed resistors R419, R420, R421, R422, R423 and connect directly

- Removed Q5, R4, R5, R6 - CPU fan PWM control

- Connect VDDX_12V0 directly to Fan header J21

- J21 - Changed to 2-pin from 3-pin

- PWM1_1 Made NC

- Removed J10, R92 - MMCX connector for HFXCLK

- Added R419, Pull-down resistor from SMB_CLK of U6 for strapping

- R72 - Made DNP, R79 Mount 0E resistor for HFXSEL strap option

- R26 - JTAG_TDI Pull-up made DNP

- R34, R210 - SPI0_MISO, SPI0_CS pull-up made DNP

- R116, R178 - Changed 100K to 10K - Enable Fan2, Fan3 on powerup

- J22 - Made mount from DNP

- Added text near RJ45 connector for LED colors in Ethernet page

- C367 changed to 47nF

- Added R4, 10K pull down from U36, pin D5, TP

- Removed the 1.05V regulator U25 and section. C246,C292,C293,C247,C248,R102,R42,R175

- Add U25,C461,R283,D22

- Add 0.9V,20A Regulator U24 for core supplies. U24,L1,C246,C247,C248,C292,C293,C452,C453,C457,C459,C463,C478,C481,C483,C485,C487,C532,R5,R6,R102,R221,R284,R286,R291,R294,R300,R301,R313

- Remove R343,R344

- Include MK1, MK2 SMD standoff to hold M.2 card

- Modfy M1,M2,M3,M14 with M2.5 thread

Revision 3

24-Mar-2021

- Changed DDR4 memories to 16Gb from 8Gb - U13,U14,U15,U16,U18,U19,U20,U21

- Changed value of R221 to 38.3K,R285,R288 to 10E and C453 to 10nF

- Made J7, microUSB connector DNP

- Changed C459 from 100uF ceramic to 560uF electrolytic

- U24 PGND pin connected to GND

- Changed value of R310,R311,R312,R315,R316,R317,R320,R321,R336,R337,R348,R353,R370,R371,R384,R385 from 33E to 0E

- Added Heatsink fan K1

- Updated part number for heatsink and fan for FU740

- Added PS1 Thermal paste as component

- Removed resistor at R180

- Added Diode in place of resistor at R180,R181

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Title Revision History			
Size: B	Proj: HiFive Unmatched	Revision: 3	
Date: 23-04-2021	Doc: hf105-sch		
File: RevisionHistory.SchDoc	Sheet 20 of 20		

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