

1

2

3

4

A

A

HiFive Unmatched RevB Schematic

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B

B

C

C

D

D

1

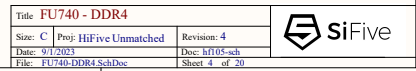
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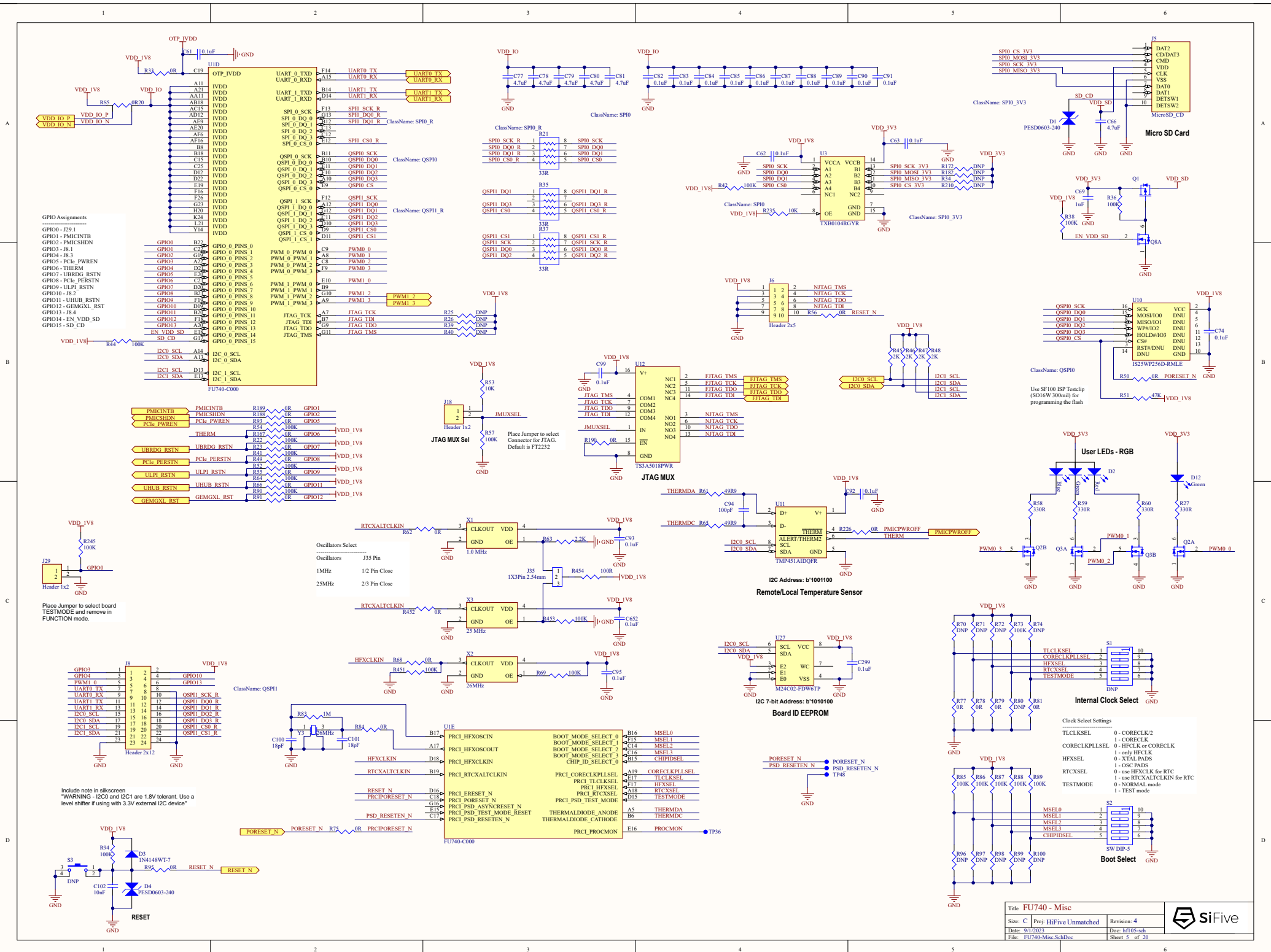
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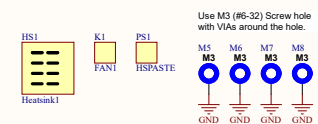
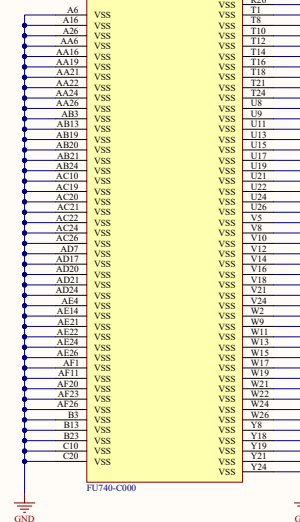
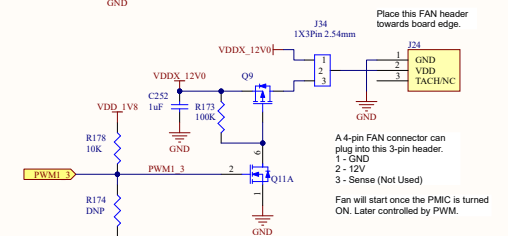
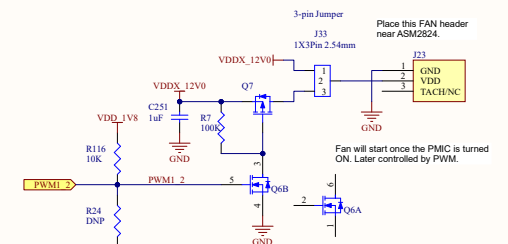
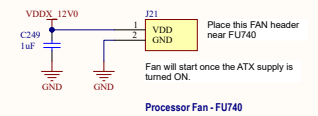
HiFive Unmatched Board

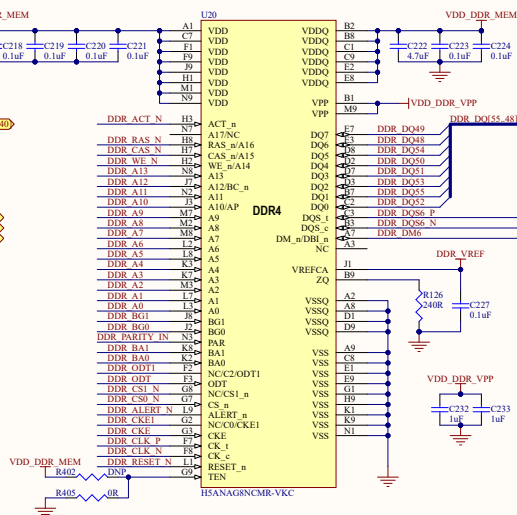
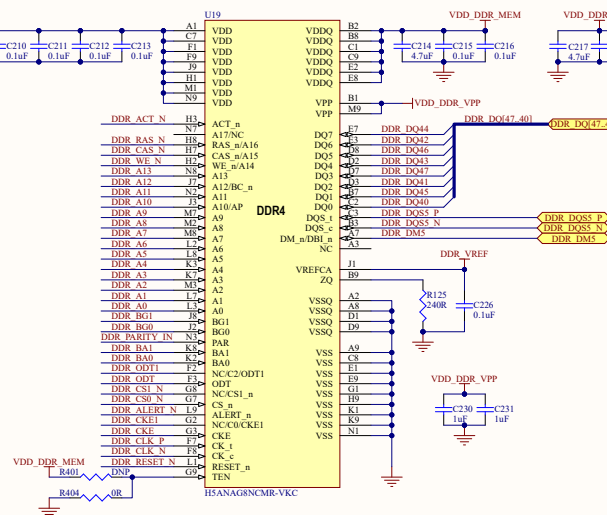
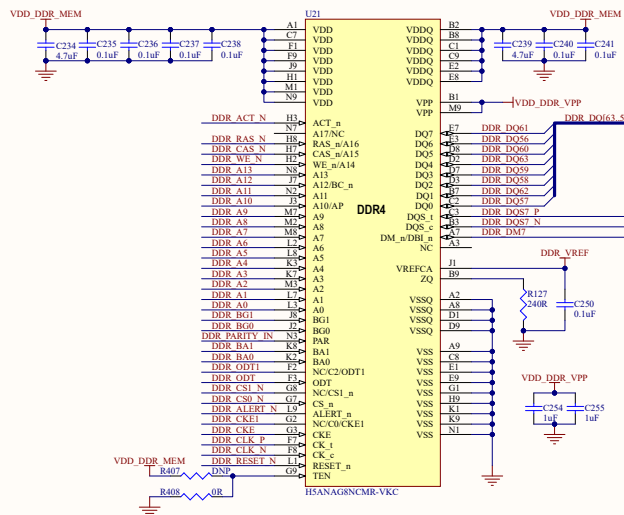










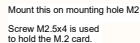
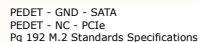


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|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | |
| A | | | | | | A |
| B | | | | | | B |
| C | | | | | | C |
| D | | | | | | D |
| 1 | 2 | 3 | 4 | 5 | 6 | |


Please contact ASMedia for ASM2824 Section schematics

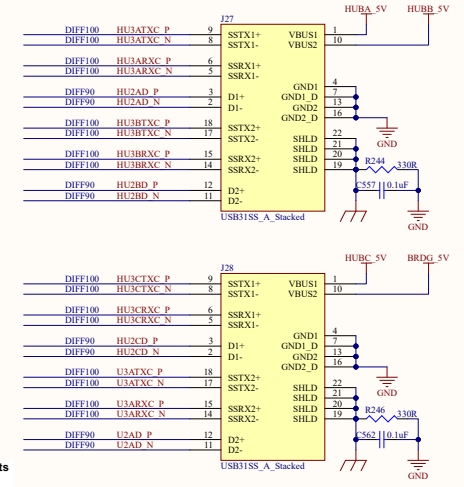
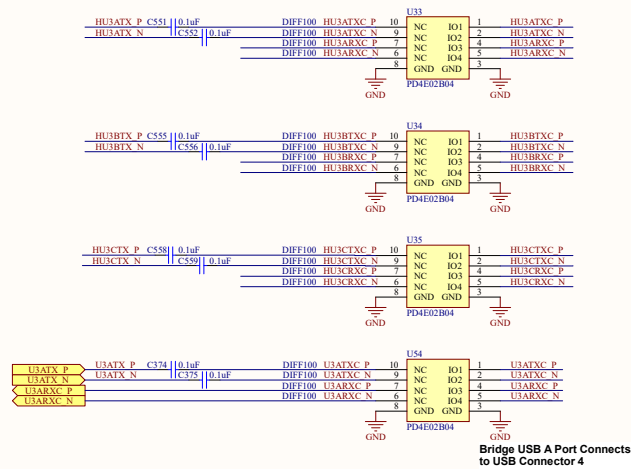
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| Size: C | Proj: HiFive Unmatched | Revision: 4 | |
| Date: 9/1/2023 | Doc: H105-sch | | |
| File: PCIe_Switch_2.SchDoc | Sheet 11 of 20 | | |

Please contact ASMedia for ASM2824 Section schematics

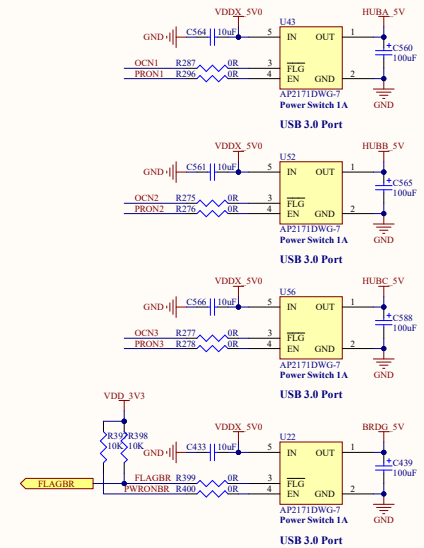
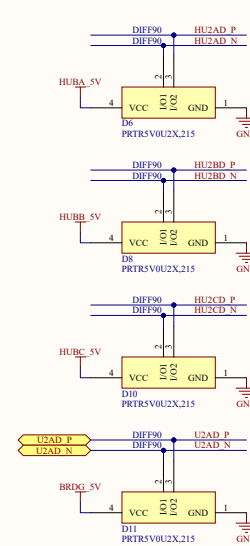


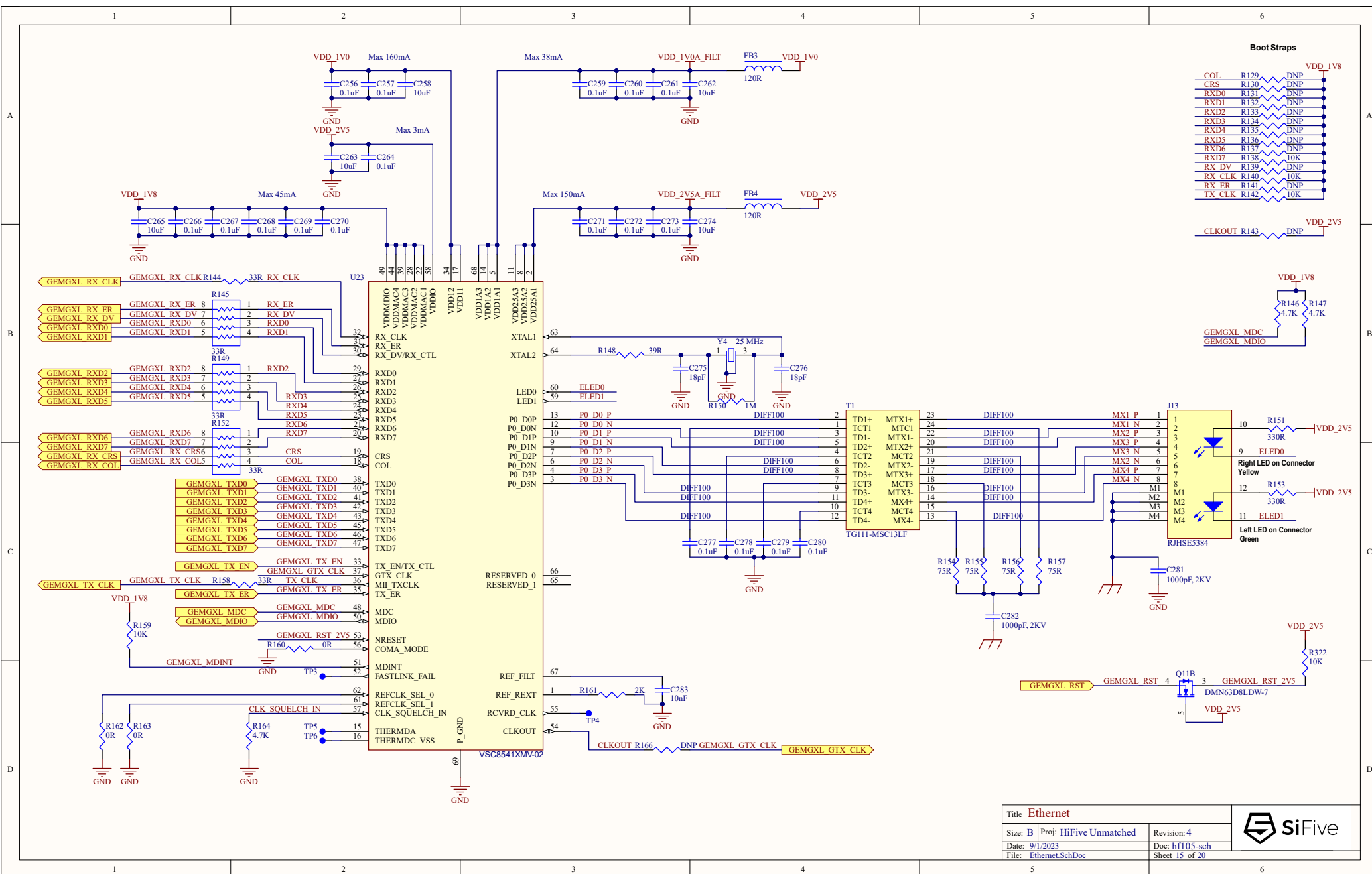
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|---|--|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
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| B | | | | | |
| C | | | | | |
| D | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 |

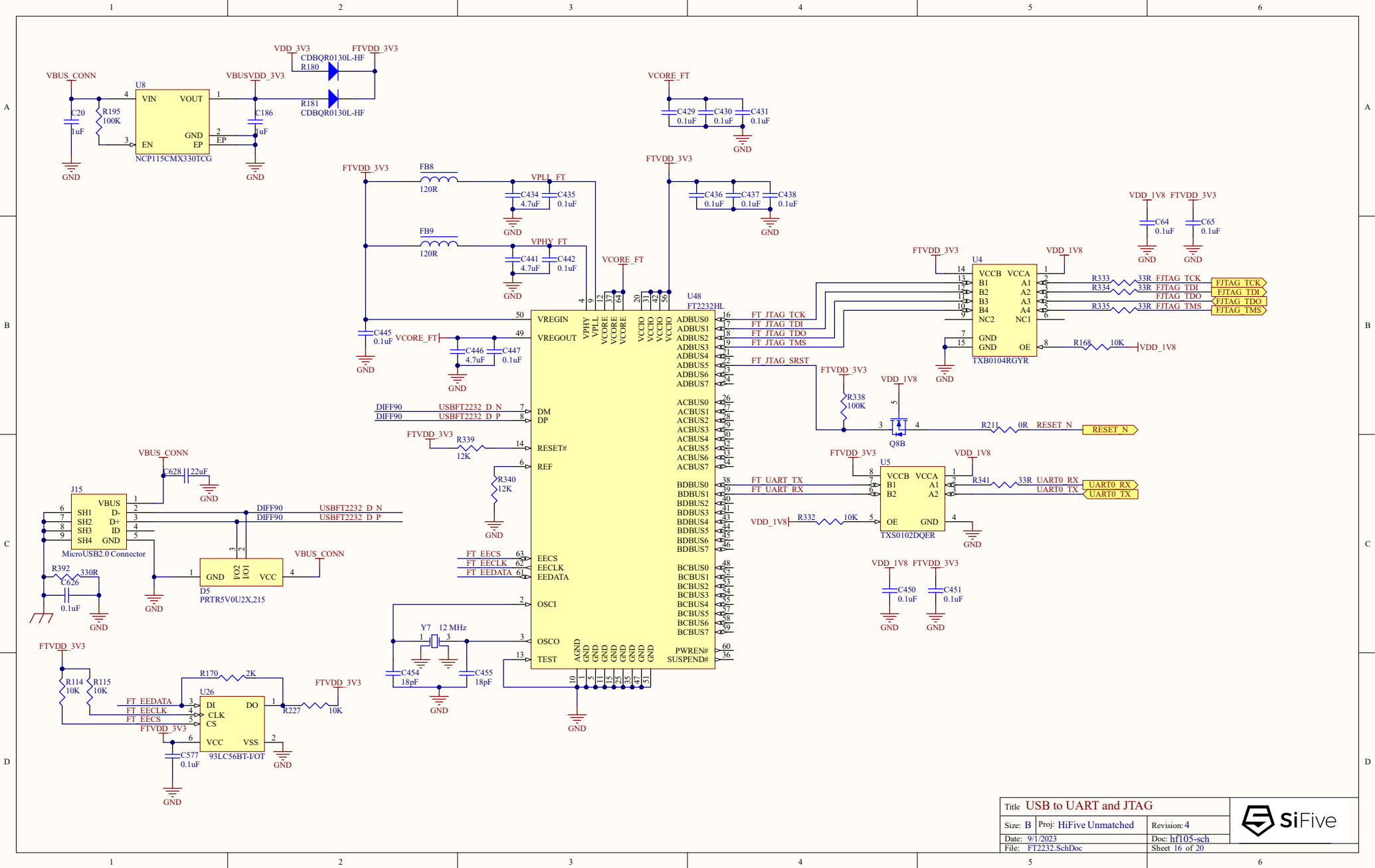
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| Date: 9/1/2023 | Doc: hf105-sch | |
| File: PCIe to USB Bridge.SchDoc | | Revision: 4 |
| | | Sheet 13 of 20 |

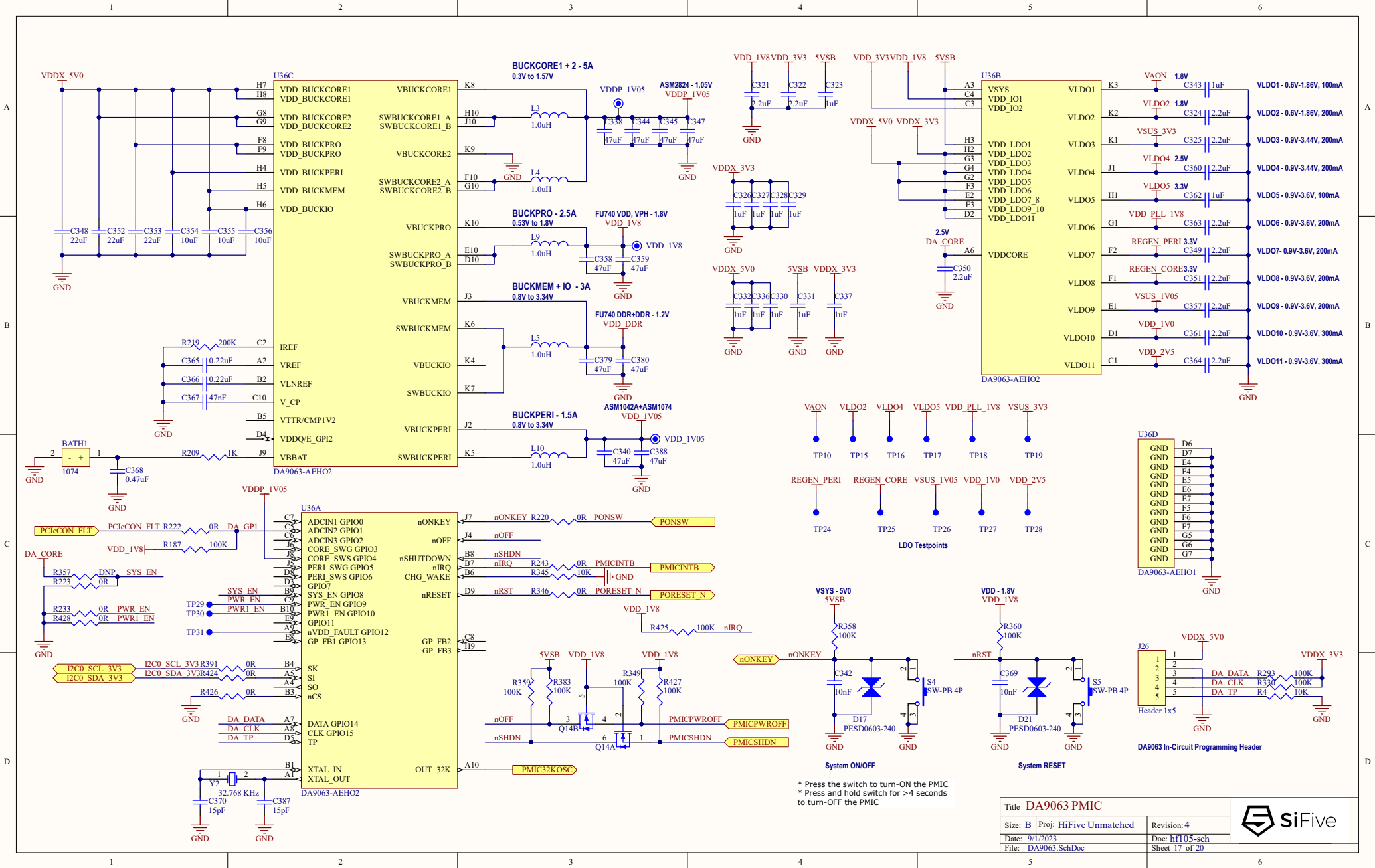


Please contact ASMedia for ASM1074 Section schematics



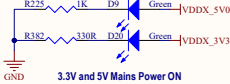
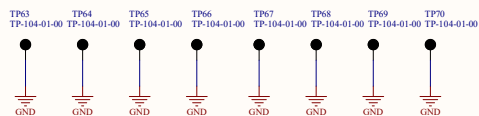
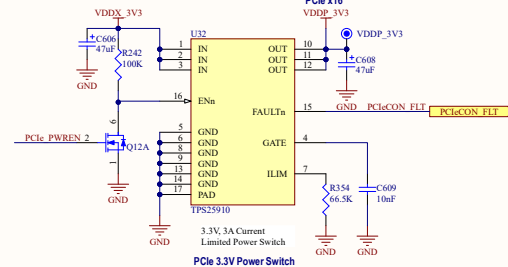
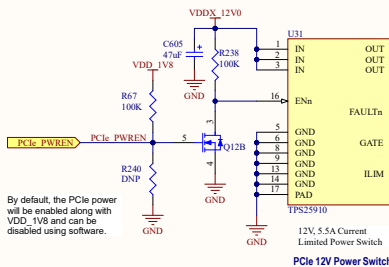
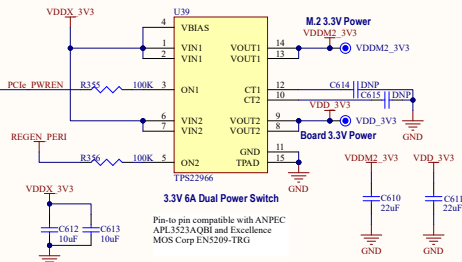
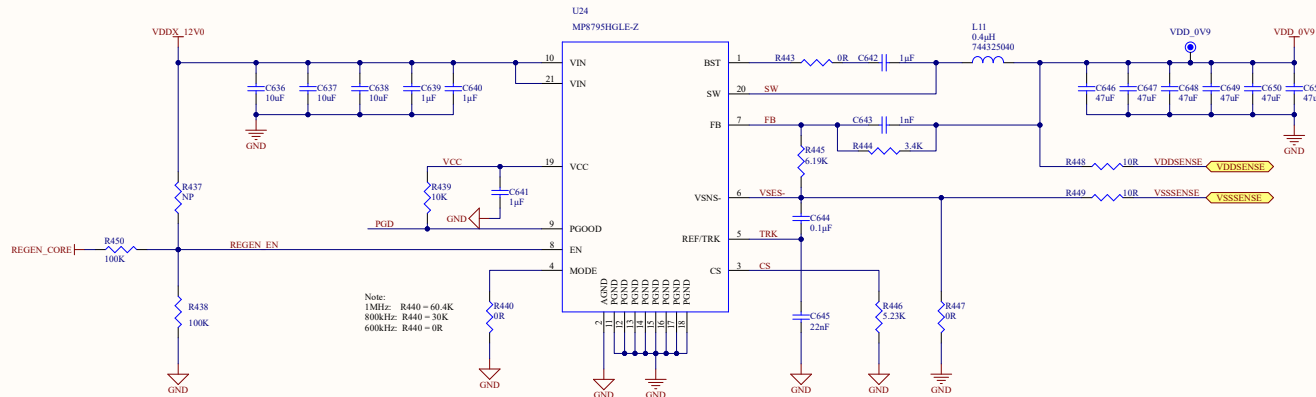
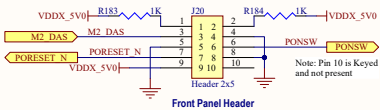
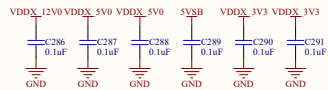
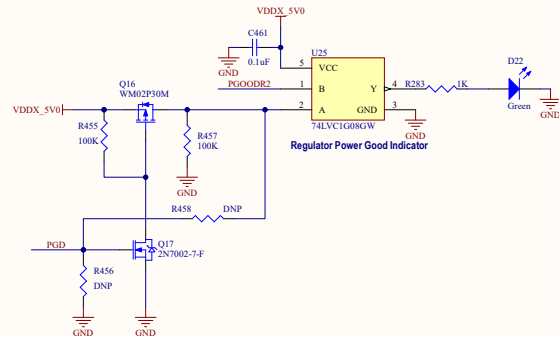
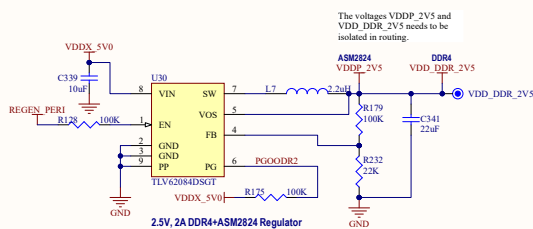
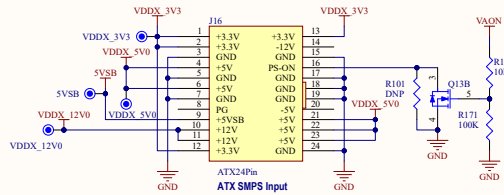
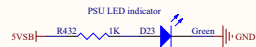






* Press the switch to turn-ON the PMIC
* Press and hold switch for >4 seconds to turn-OFF the PMIC

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|---------------------|------------------------|--|
| Title DA9063 PMIC | | |
| Size: B | Proj: HiFive Unmatched | |
| Date: 9/1/2023 | Doc: hf105-sch | |
| File: DA9063.SchDoc | Sheet 17 of 20 | |




| Title | |
|-------------------|------------------------|
| Power Supply | |
| Size: C | Proj: HiFive Unmatched |
| Date: 9/1/2023 | Revision: 4 |
| File: PowerSchDoc | Doc: h105-ach |
| | Sheet 18 of 20 |



Revision History

| | | |
|------------|-------------|---|
| Revision 1 | 18-Aug-2020 | - Initial revision |
| Revision 2 | 11-Nov-2020 | <ul style="list-style-type: none">- 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- Modify M1,M2,M3,M14 with M2.5 thread |
| Revision 3 | 24-Mar-2021 | <ul style="list-style-type: none">- 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 |
| Revision 4 | 06-Feb-2023 | <ul style="list-style-type: none">- Removed USB20_PHY.SchDoc all components- Removed FMC Connector.SchDoc all components- Removed TPS544B20 Regulator- Removed R280,R314,R336,R337,R362,R363,R365- Added R429,R430,R431,R432,R433,R434,R435,R436,R451,R452,R453,R454,C652,D23,X3,J9,J33,J34,J35- Update R180 / R181 footprint from 0402 for Diode- Added Auto Restart Architecture(AutoRestart.SchDoc)- Add MP8795H Regulator(Power MP8795H.SchDoc)- Changed value of R364 to 100K- Header J3,J31 connector DNP |

| | | |
|-------------------------------|-------------------------------|---|
| Title Revision History | |  |
| Size: B | Proj: HiFive Unmatched | |
| Date: 9/1/2023 | Doc: hf105-sch | |
| File: RevisionHistory.SchDoc | Sheet 20 of 20 | |