

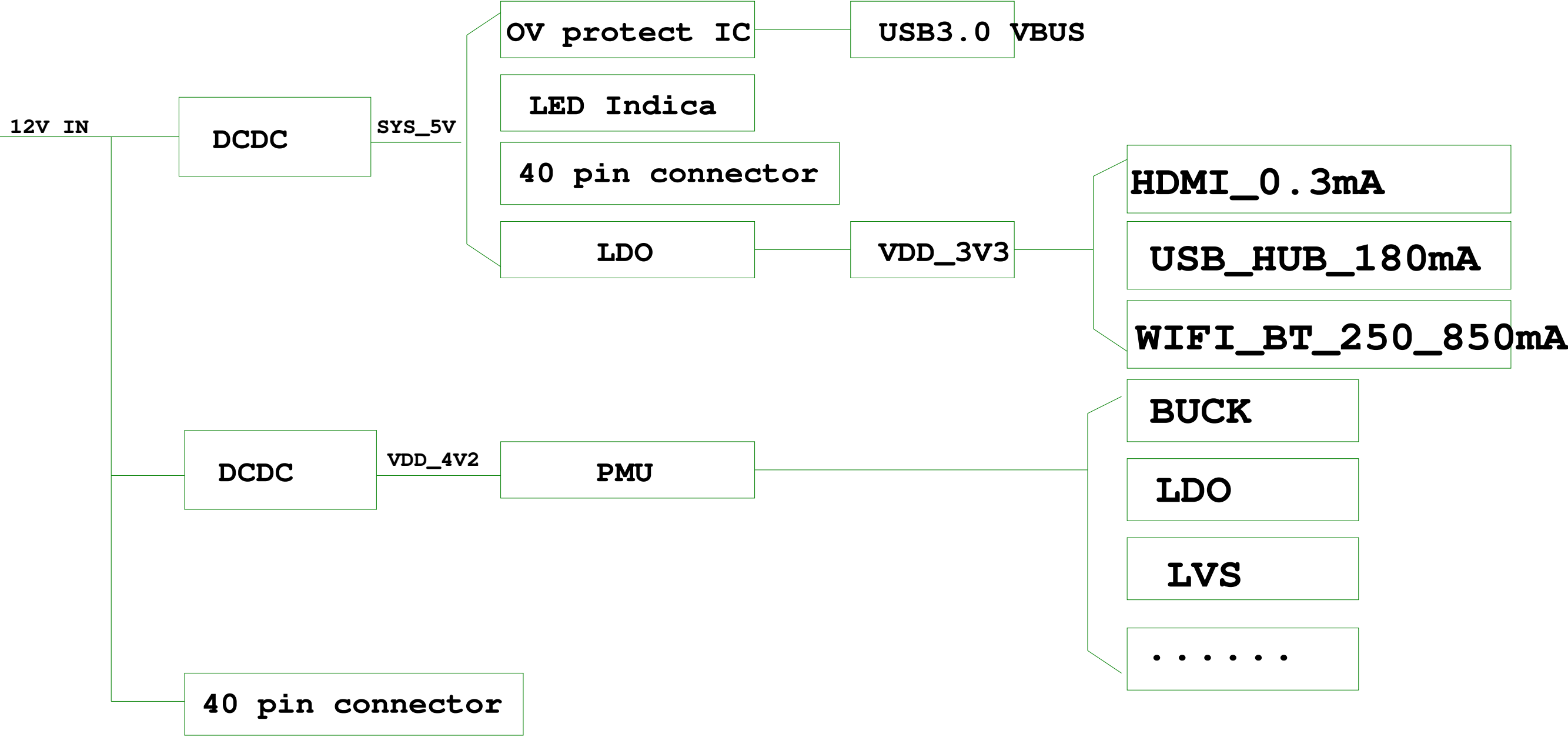
HiKEY SCH

- 1 Catalog
- 2 Power Tree
- 3 Block Diagramm
- 4 12V DC_IN
- 5 SOC PWR1
- 6 SOC PWR2
- 7 SOC PWR3
- 8 SOC HS
- 9 SOC GPIO
- 10 SOC RF
- 11 SOC GND
- 12 PMU-1
- 13 PMU-2
- 14 PMU-3
- 15 PMU-4
- 16 UFS/LPDDR4
- 17 USB/Hub-1
- 18 USB/Hub-2
- 19 HDMI
- 20 IO_CONN
- 21 WIFI/BT
- 22 KEY
- 23 SD/JTAG
- 24 User LED
- 25 PCIE M.2

The type and specification of the components refer to the BOM

				ECA NO	DATE
DESIGNED		Hikey960 Board			
REVIEWED					
		VER	PART_NUMBER	SHEET	OF
		A		HUAWEI TECH CO.,LTD.	

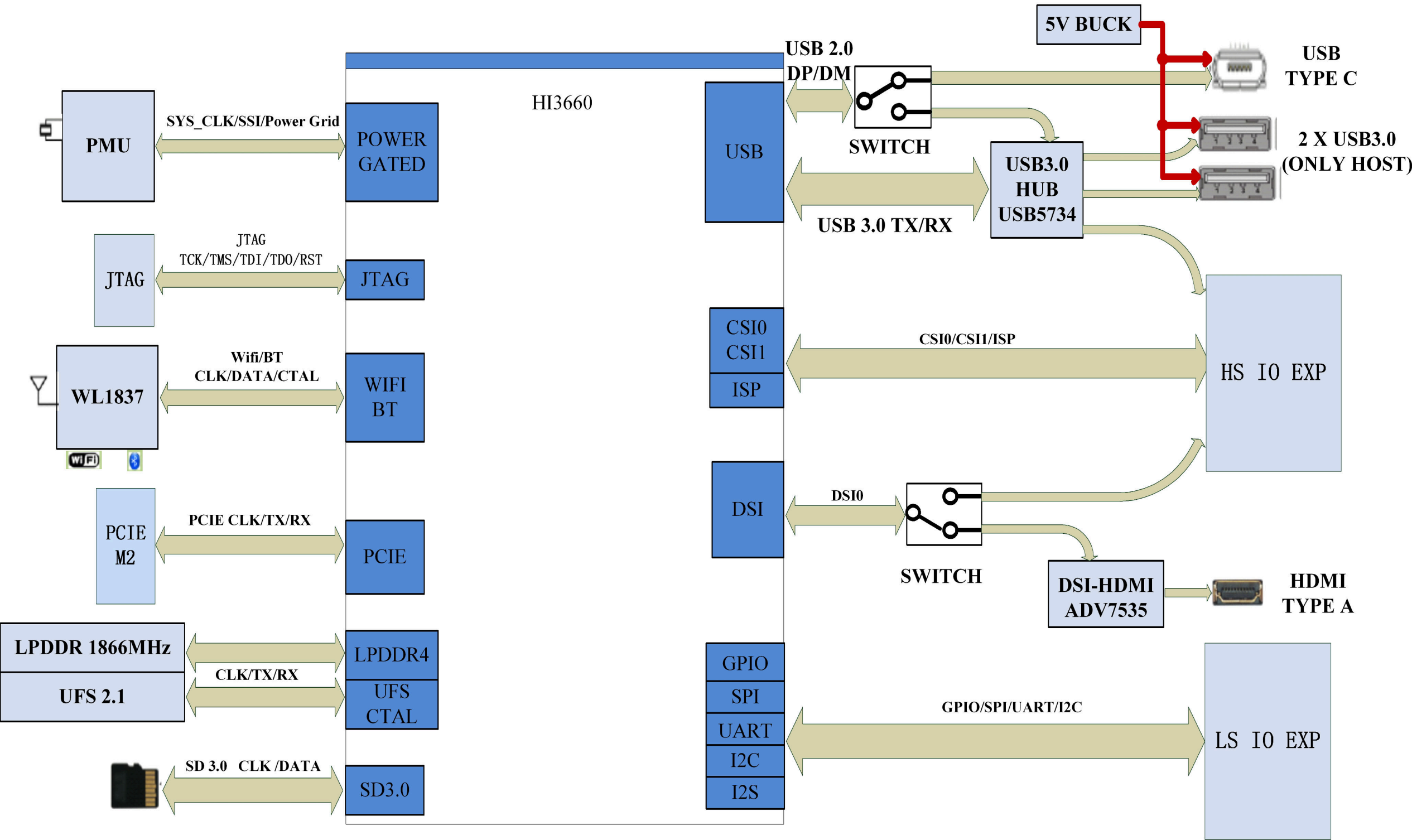
2. Power Tree



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3. Block Diagramm

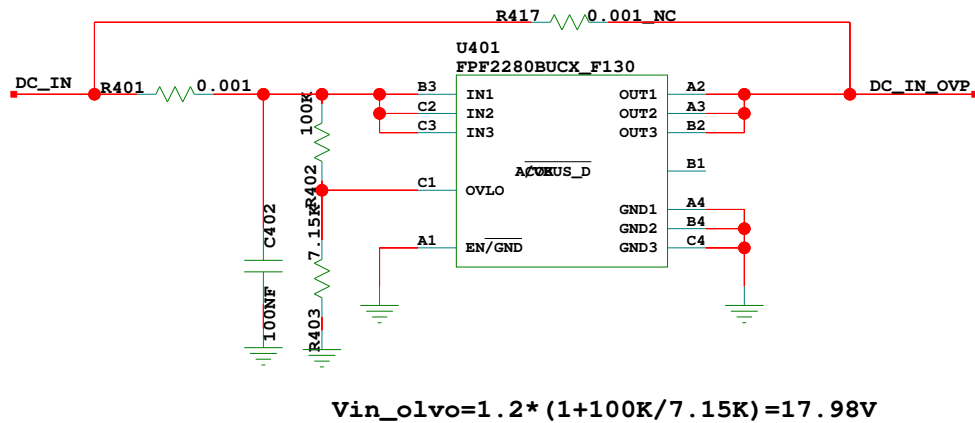
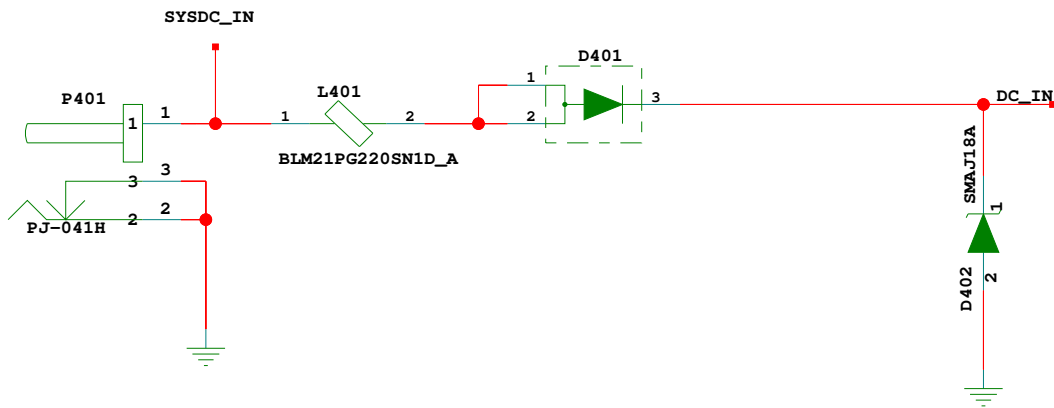


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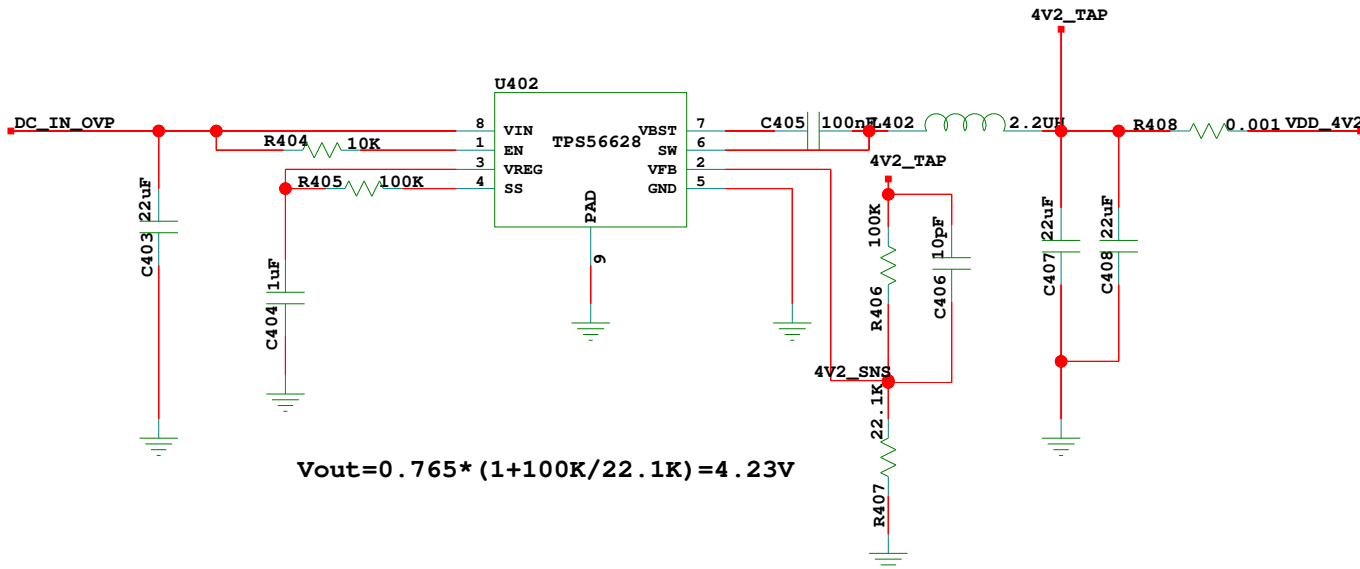
				ECA NO	DATE
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4. 12V DC_IN

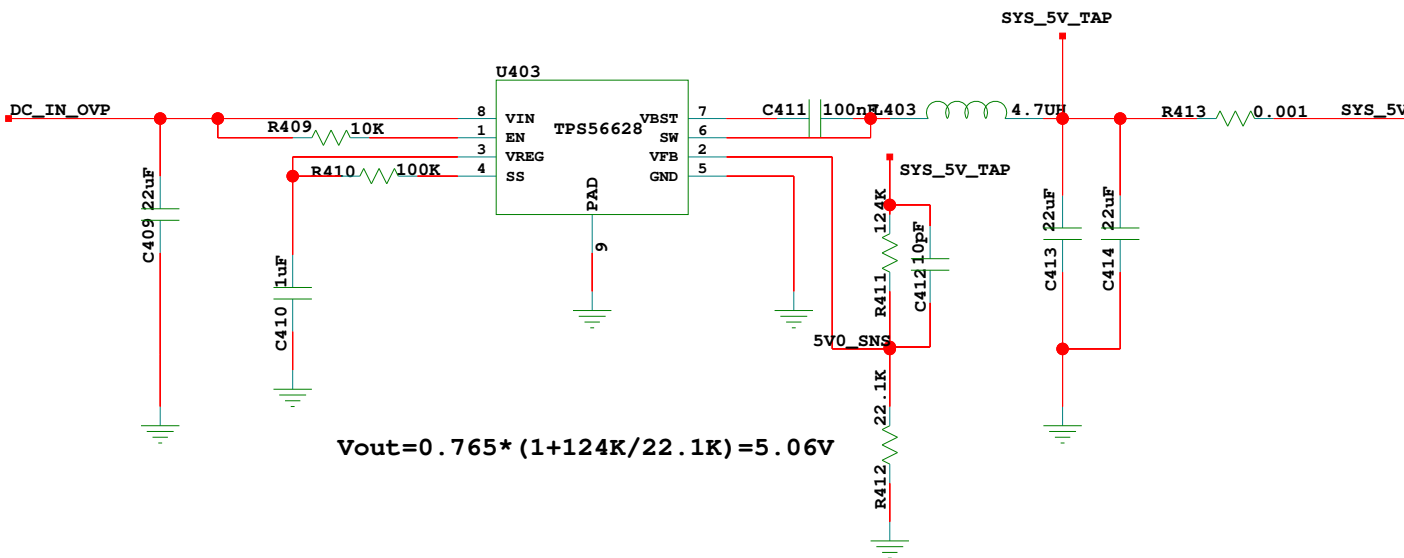
DC 8-18V Input



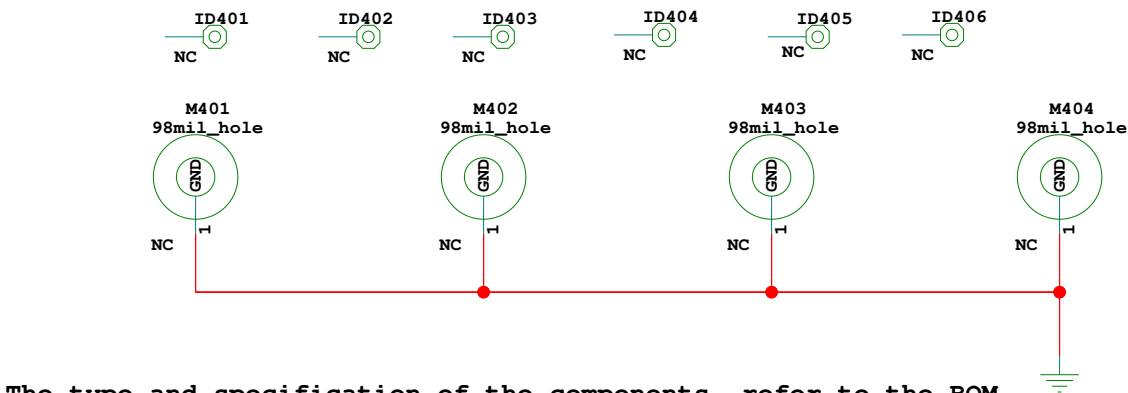
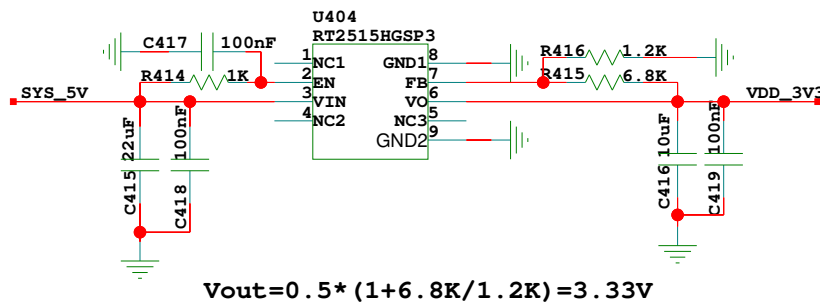
DC_IN 12V0 To 4.2V 5A



DC_IN 12V0 To 5V 5A



5VDC to 3V3DC

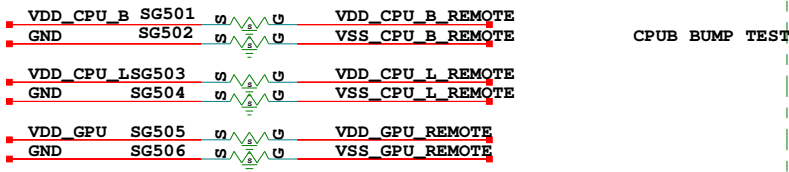


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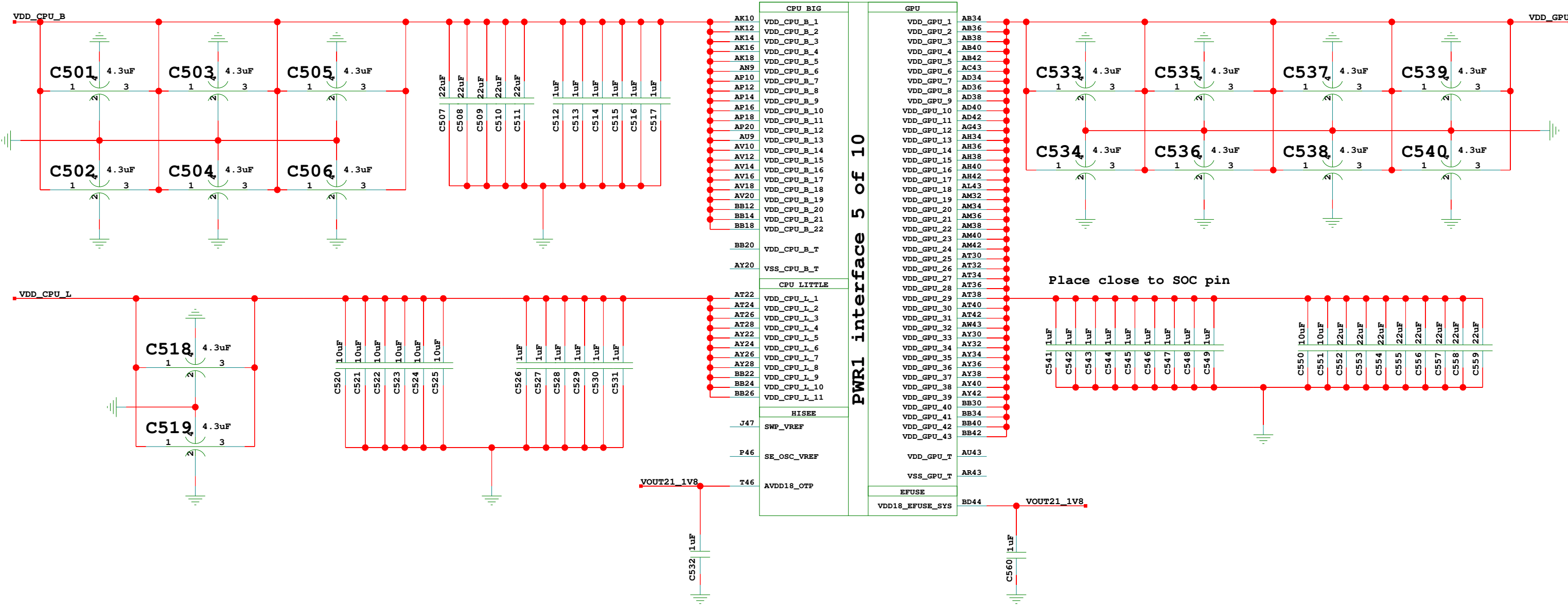
5. SOC PWR1

Reserved for later using



PWR1 interface 1 of 10

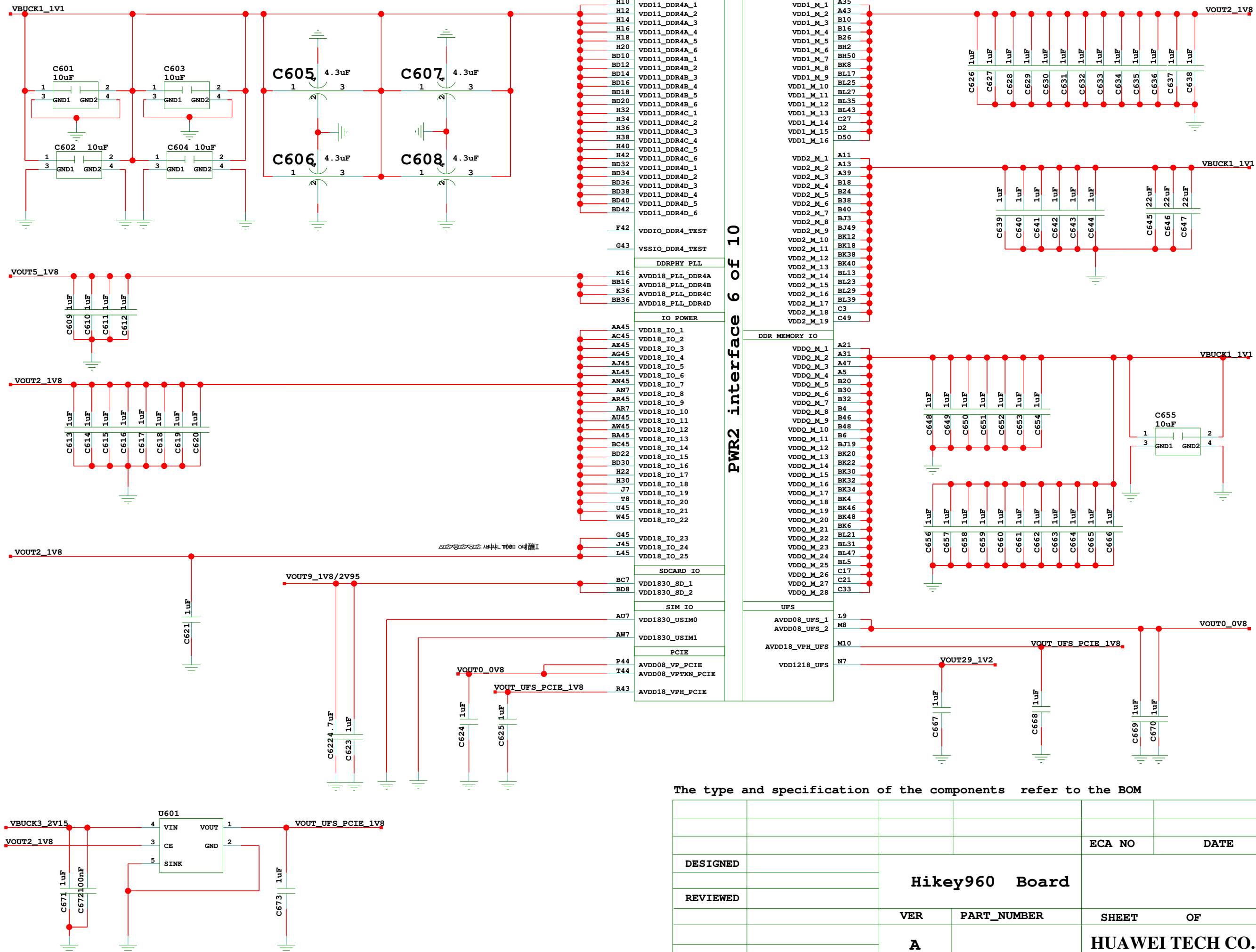
U501



The type and specification of the components refer to the BOM

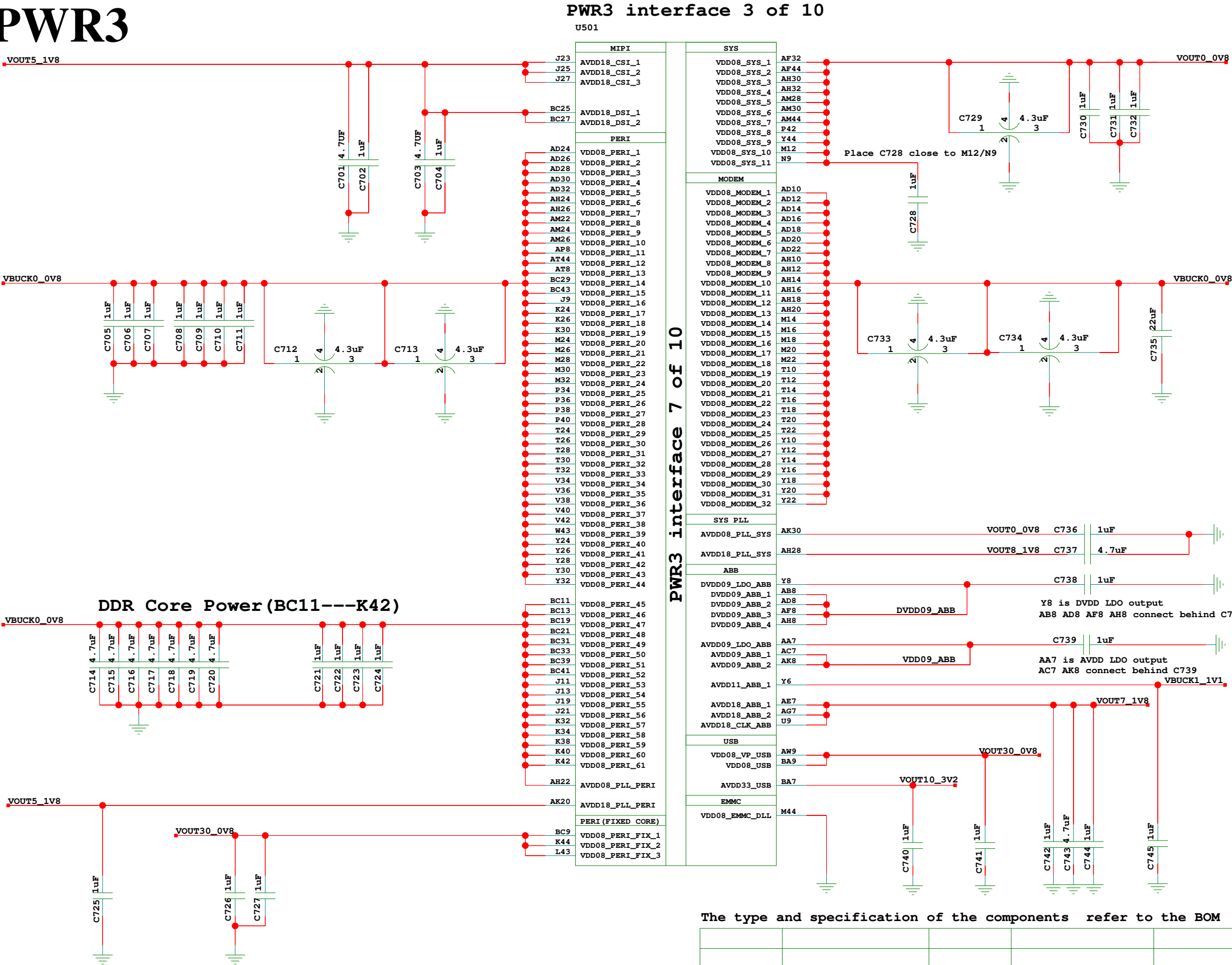
				ECA NO	DATE
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6. SOC PWR2



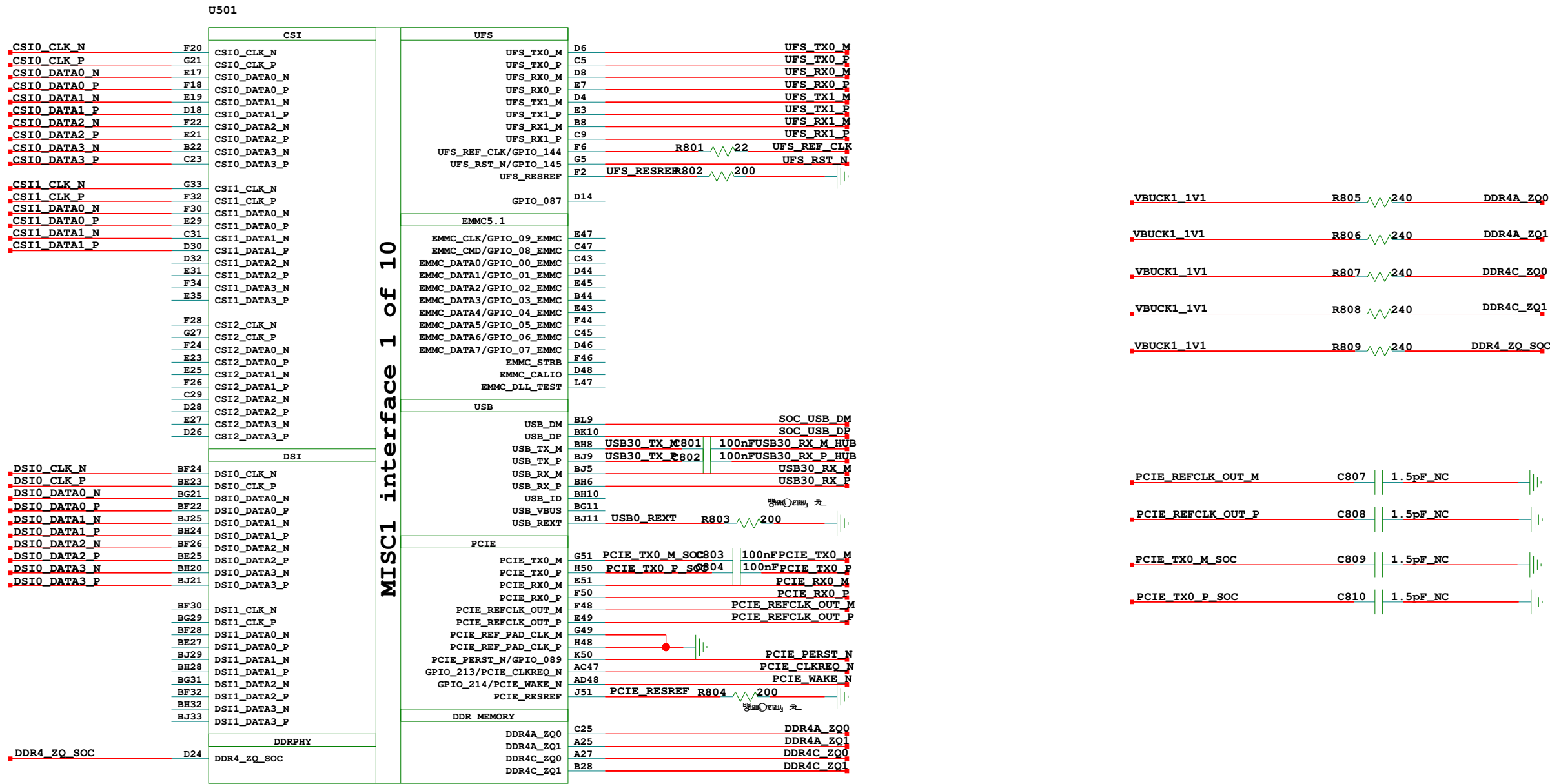
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7. SOC PWR3



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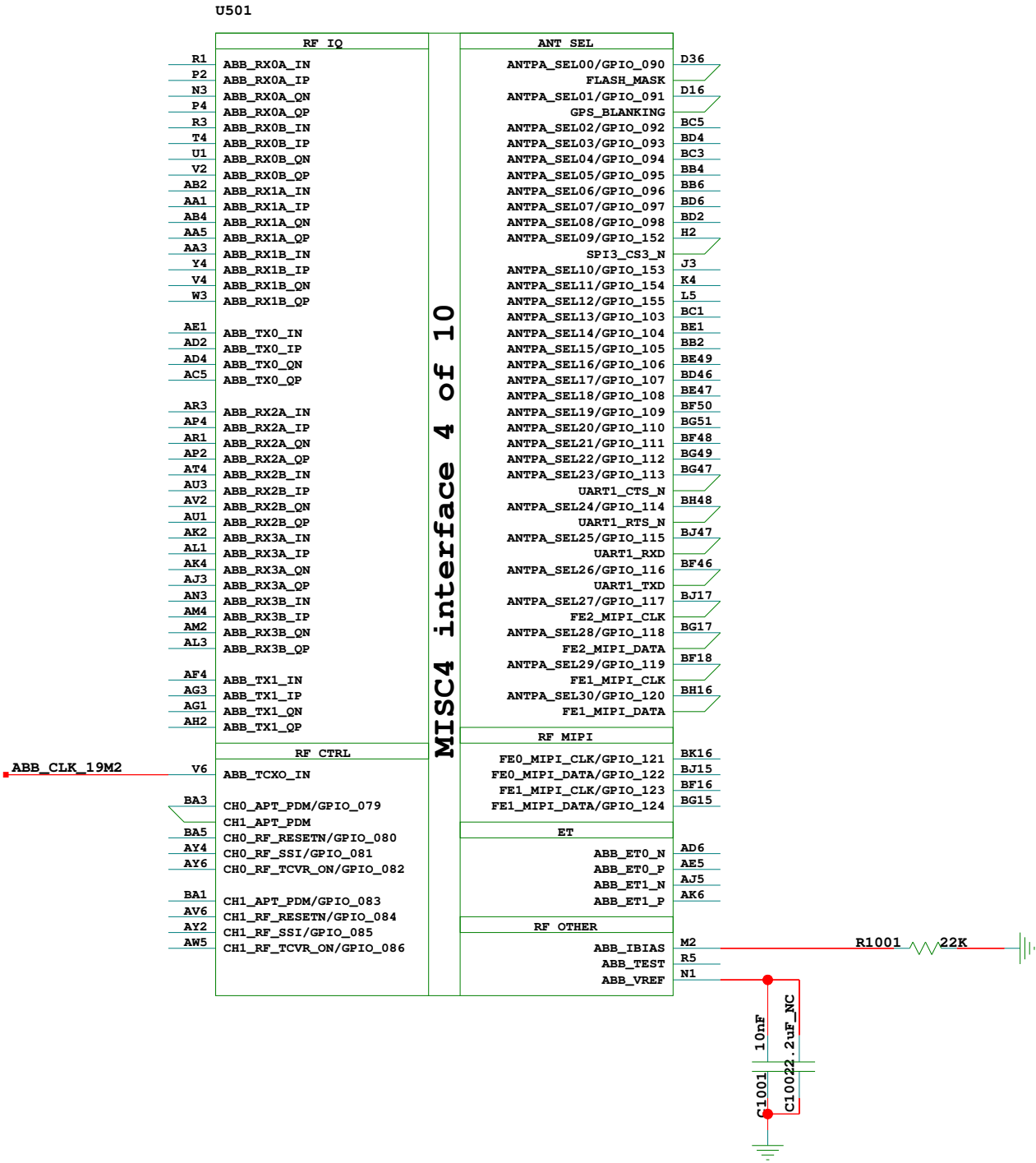
8. SOC HS



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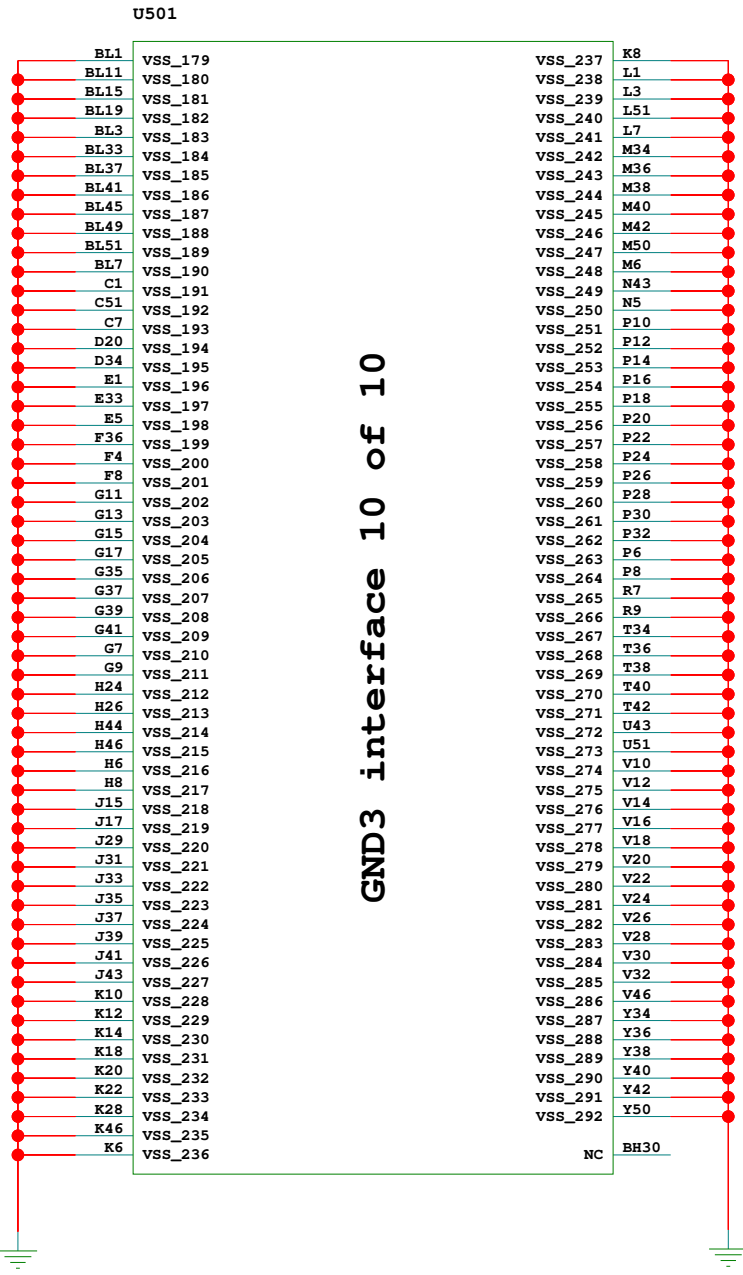
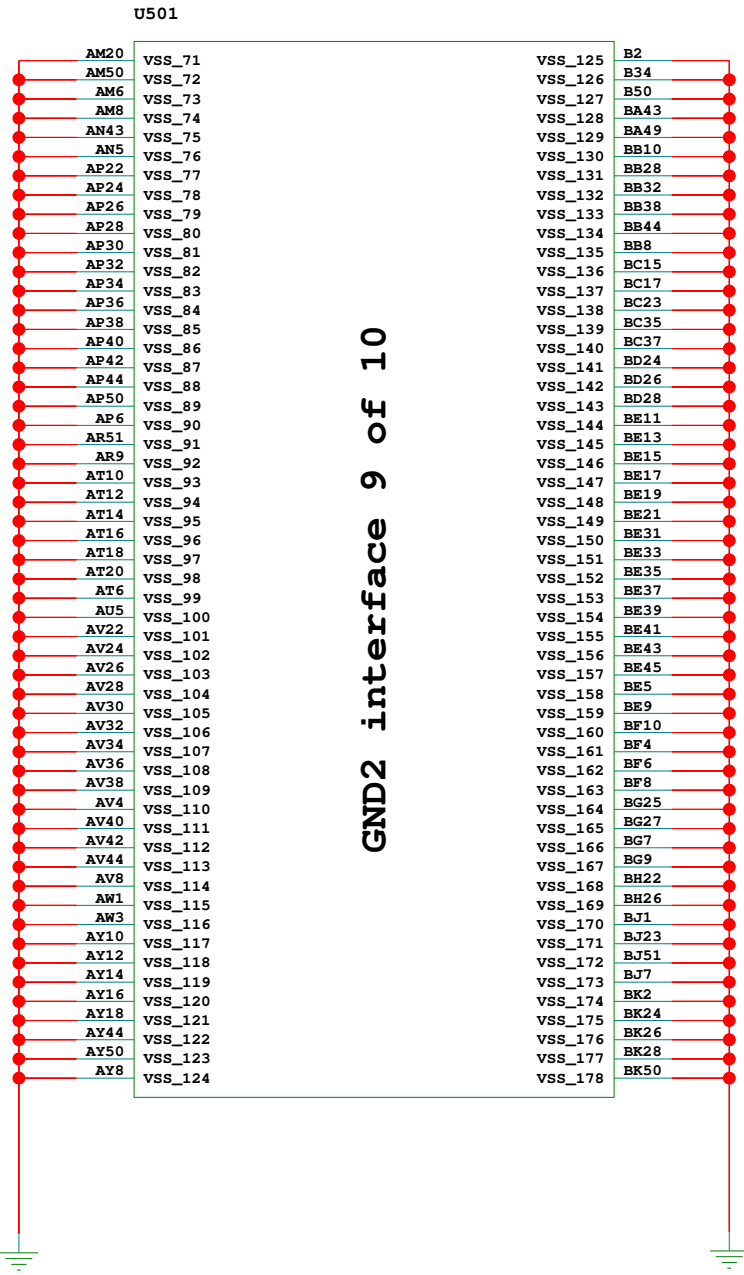
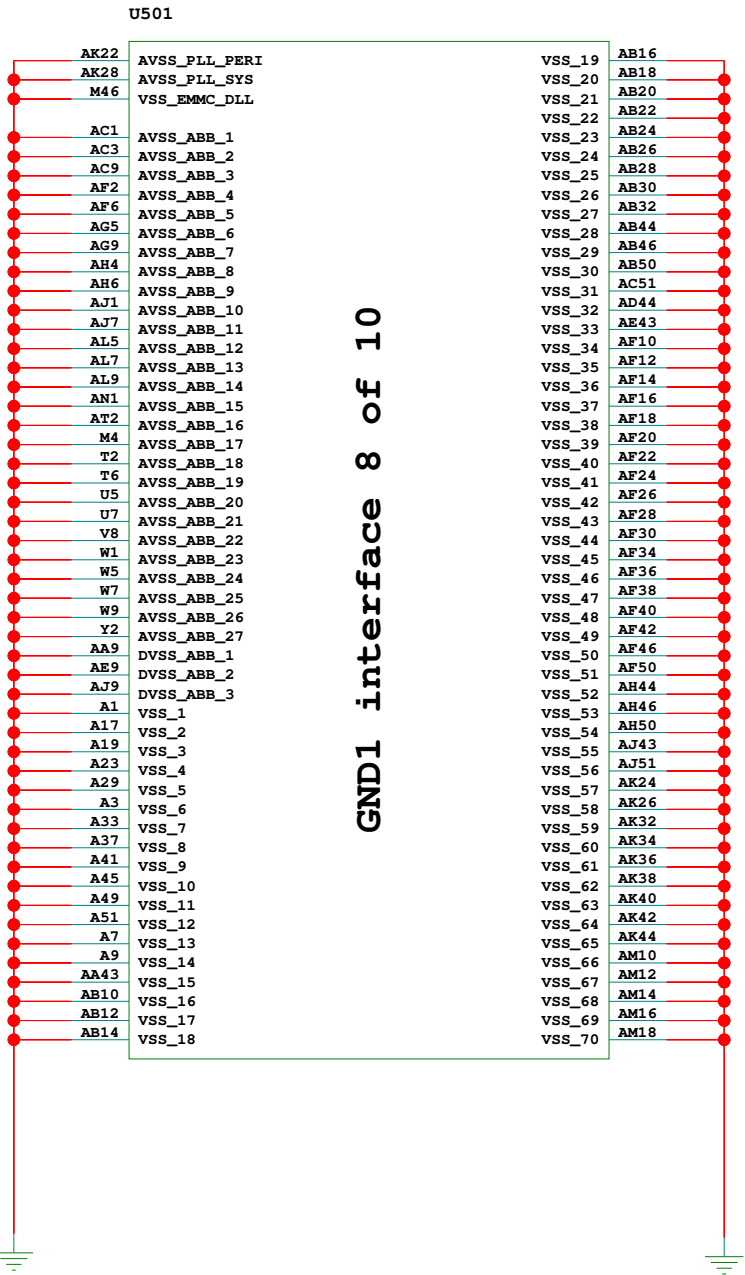
10. SOC RF



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11. SOC GND

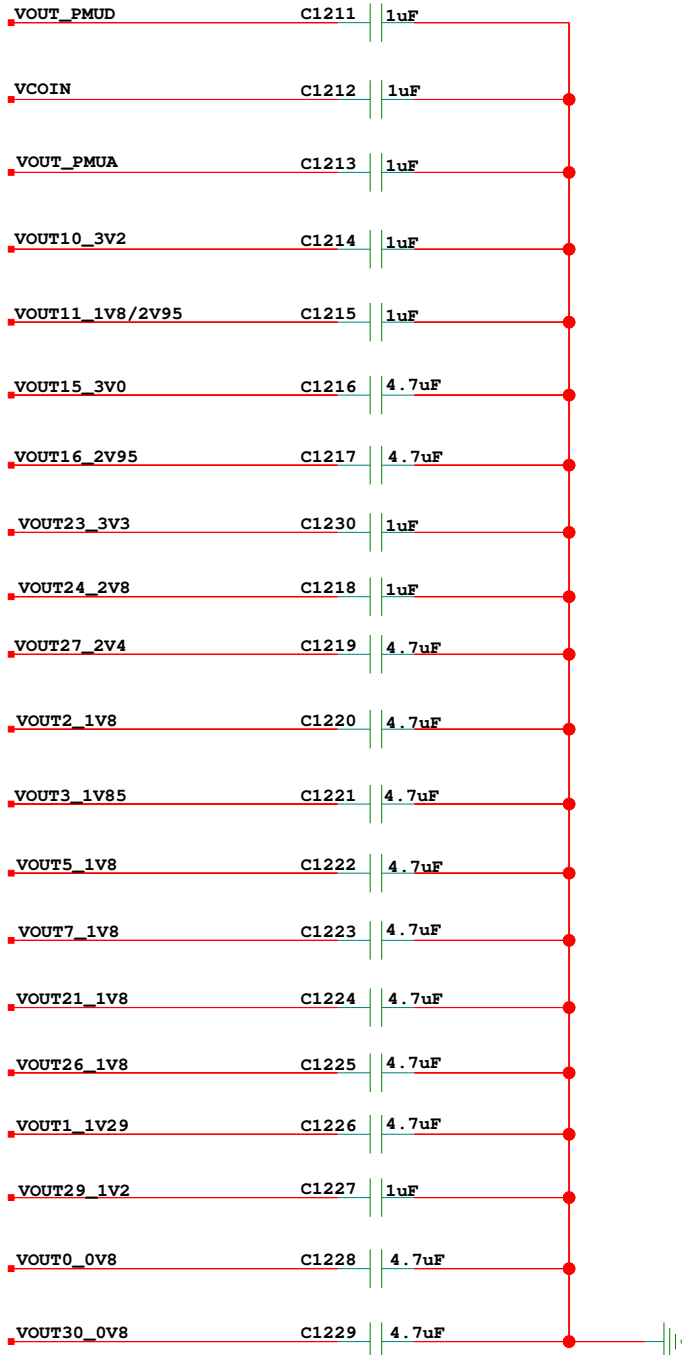
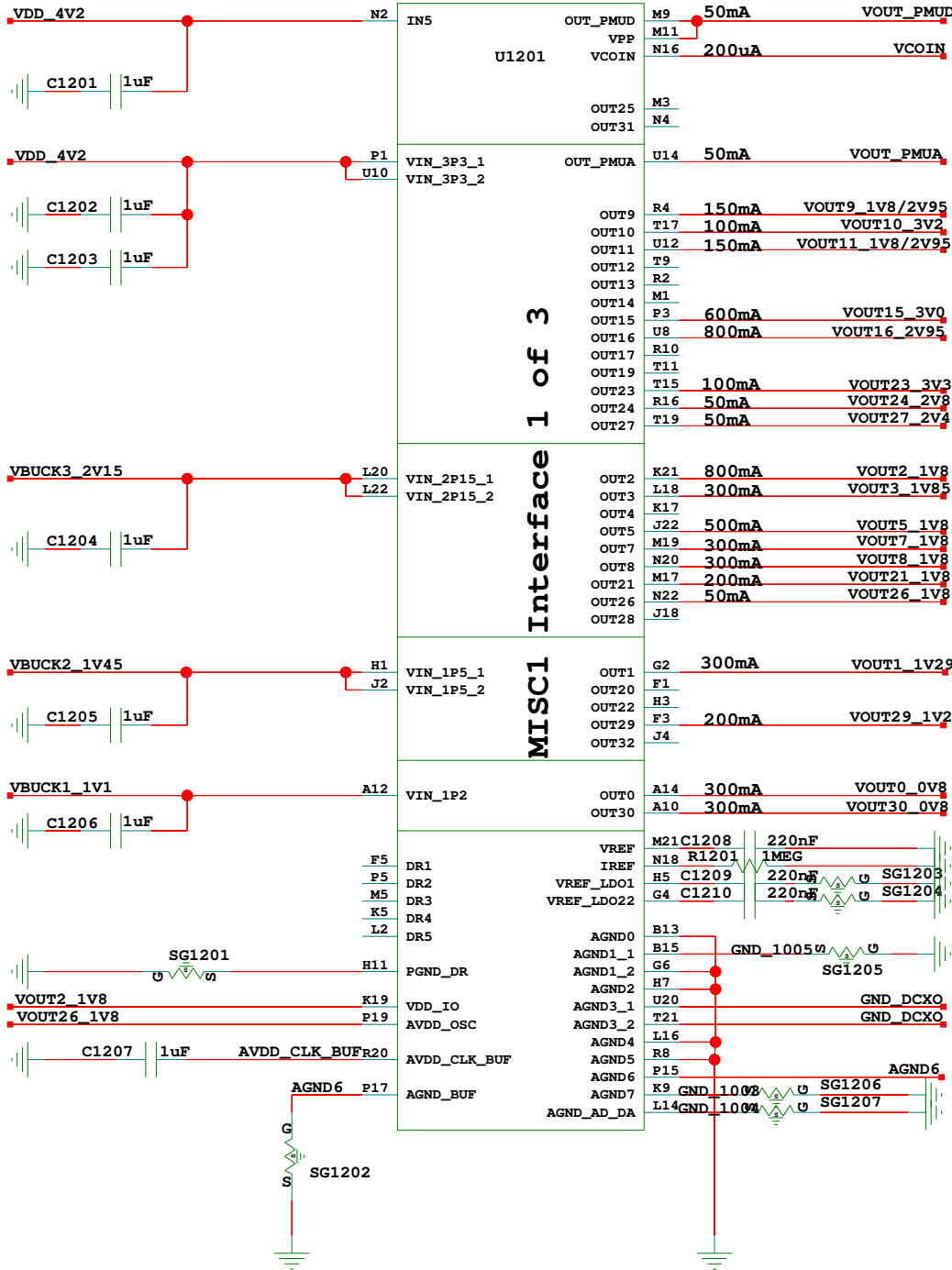


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12. PMU-1

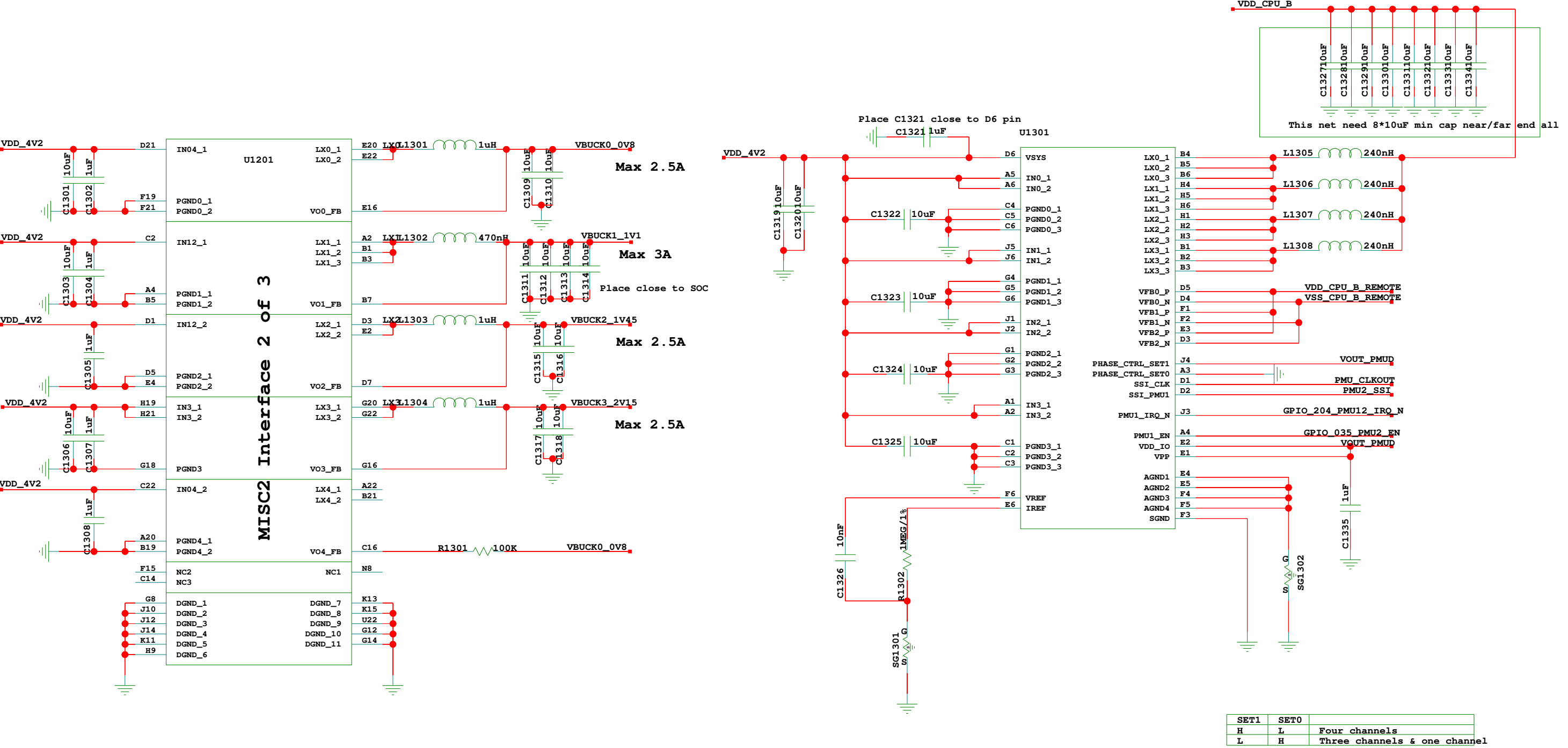
Name	Voltage	Max Current	Function
LDO0	0.8	300	UFS,SYS
LDO1	1.29	300	HDMI V1P2
LDO2	1.8	800	1V8 IO
LDO3	1.85	300	HDMI
LDO4	1.85	200	NC
LDO5	1.8	500	MIPI PHY&DDR PHY&HKADC
LDO7	1.8	300	ABB&PLL ANA_1V8
LDO8	1.8	300	SOC SYS PLL
LDO9	1.8/2.95	150	SDCARD IO
LDO10	3.2	100	USB PHY 3.3V
LDO11	1.8	150	40PIN CONNECTOR
LDO12	1.8	150	NC
LDO13	2.8	150	NC
LDO14	2.85	50	NC
LDO15	3	600	UFS VCC
LDO16	2.95	800	SD
LDO17	3.3	50	NC
LDO19	2.8	300	NC
LDO20	1.1	600	NC
LDO21	1.8	200	EFUSE_SYS
LDO22	1.29	300	NC
LDO23	3.3	100	RESERVED
LDO24	2.8	50	RESERVED
LDO25	2.85	400	NC
LDO26	1.8	50	19M2 XO
LDO27	2.4	50	RESERVED
LDO28	1.8	50	NC
LDO29	1.2	200	SOC UFS 1.2V
LDO30	0.8	300	UFS/EMMC 0.8V Core
LDO31	2.8	300	NC
LDO32	1.25	600	NC



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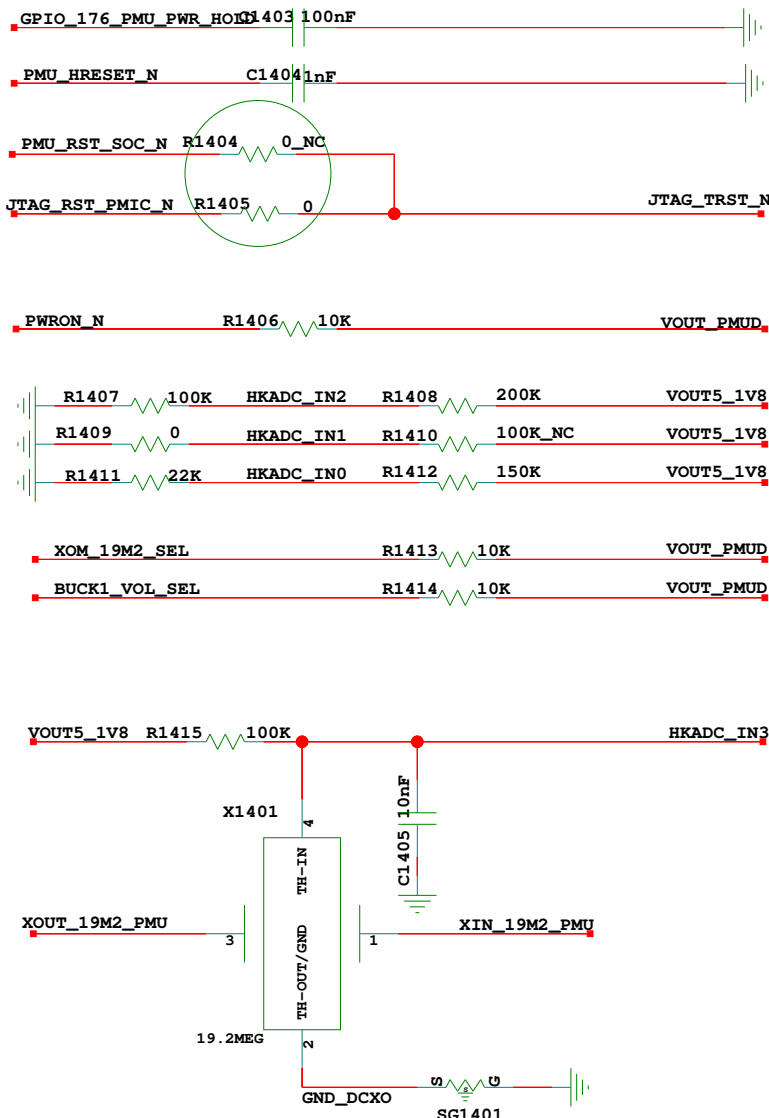
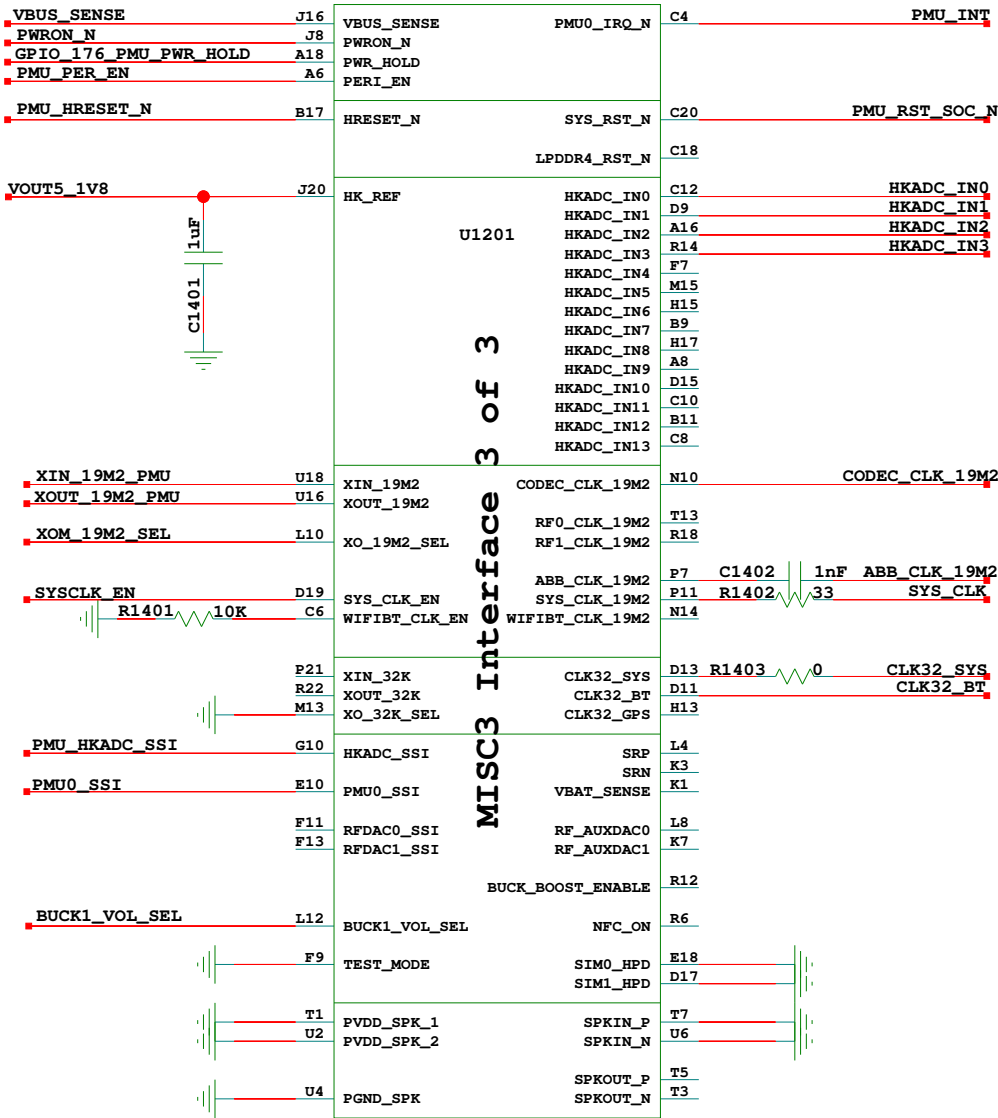
13. PMU-2



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DESIGNED		Hikey960 Board			
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14. PMU-3



BOARD ID

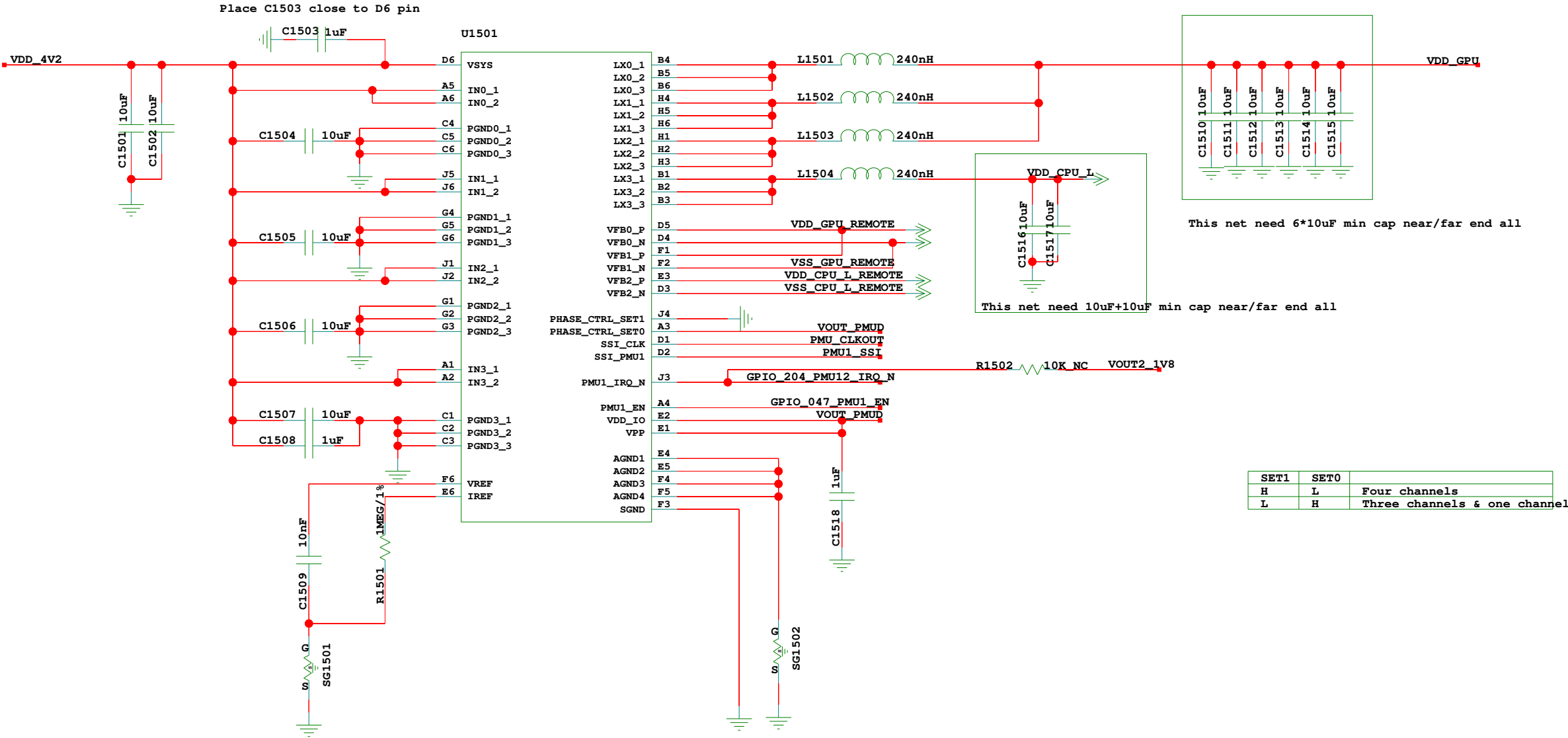
Board ID	HKADC2	HKADC1	HKADC0
hikey960	3	0	1

	0	1
XO_32K_SEL	WITHOUT CRYSTAL	WITH CRYSTAL
XO_19M2_SEL	38M4	19M2
BUCK1_VOL_SEL	1V2	1V1

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15. PMU-4

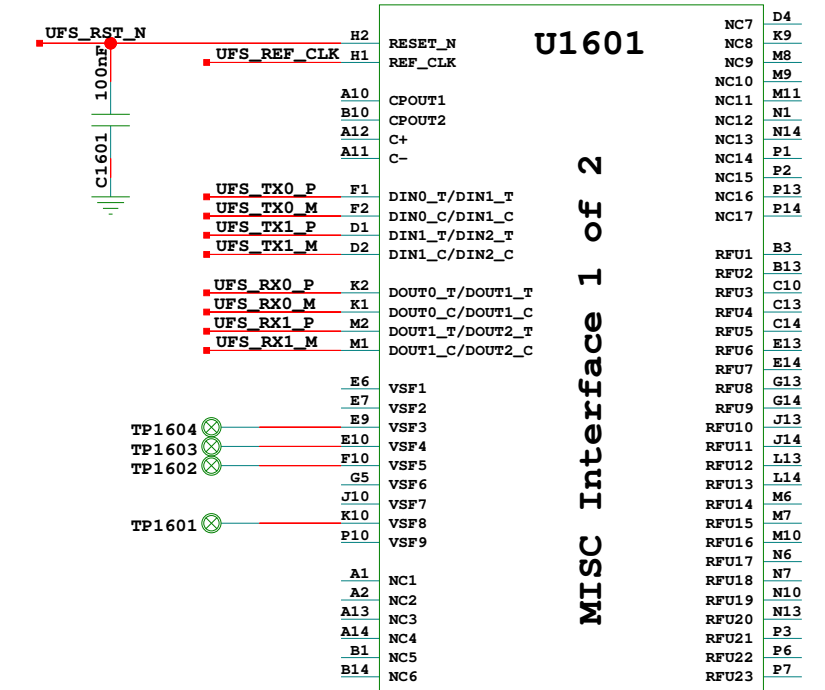
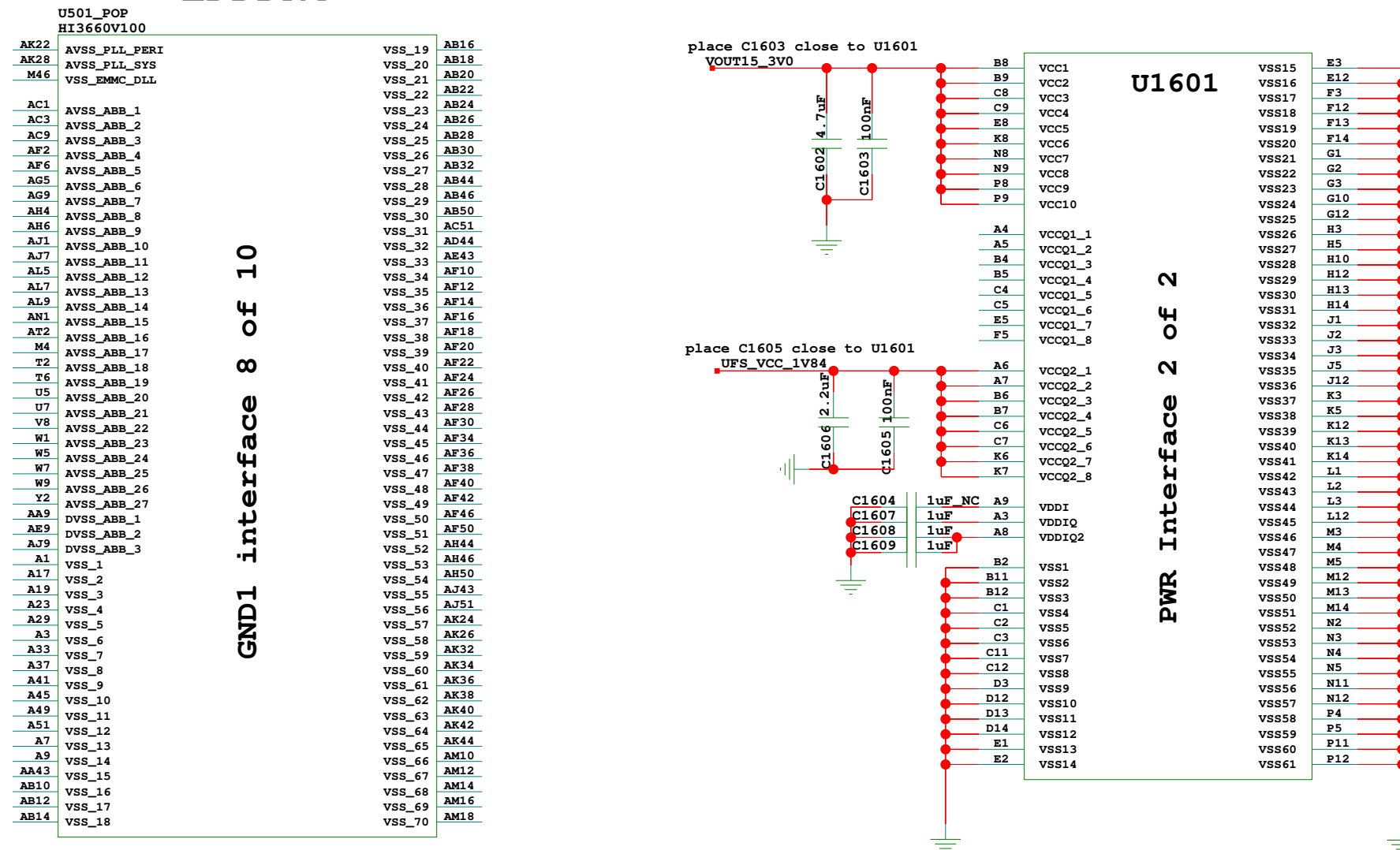


The type and specification of the components refer to the BOM

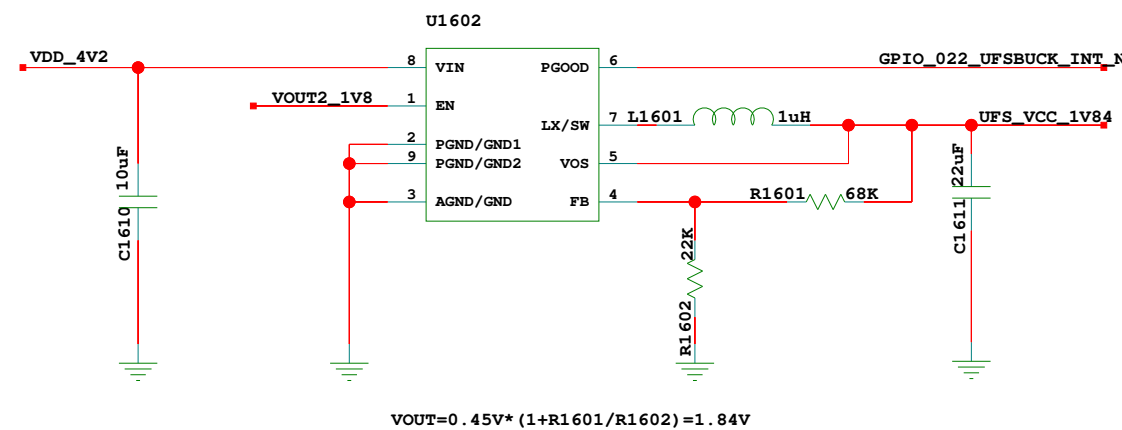
				ECA NO	DATE
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16. UFS/LPDDR4

LPDDR4



UFS BUCK

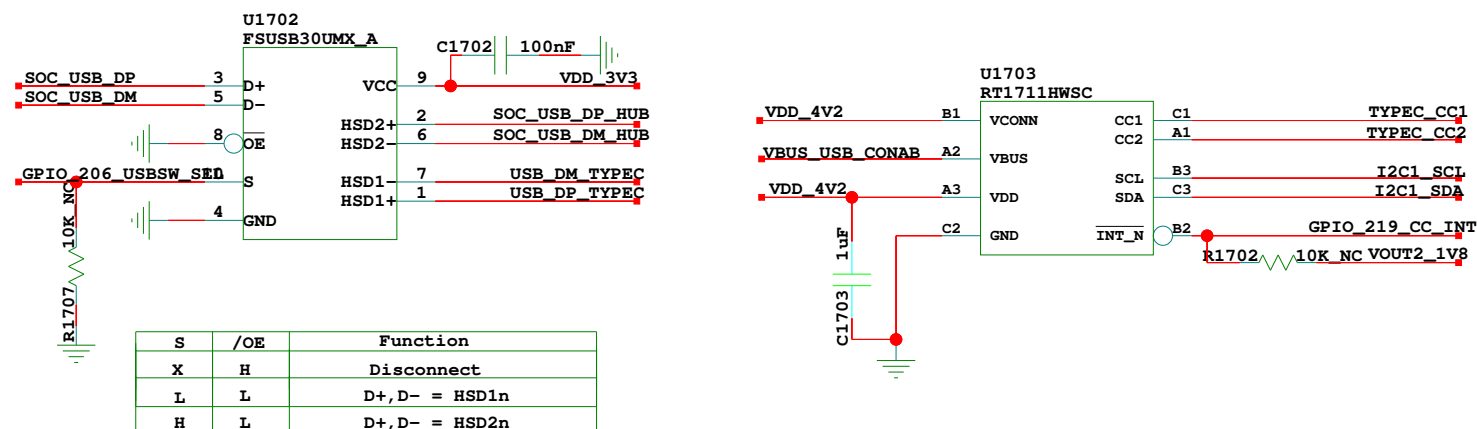
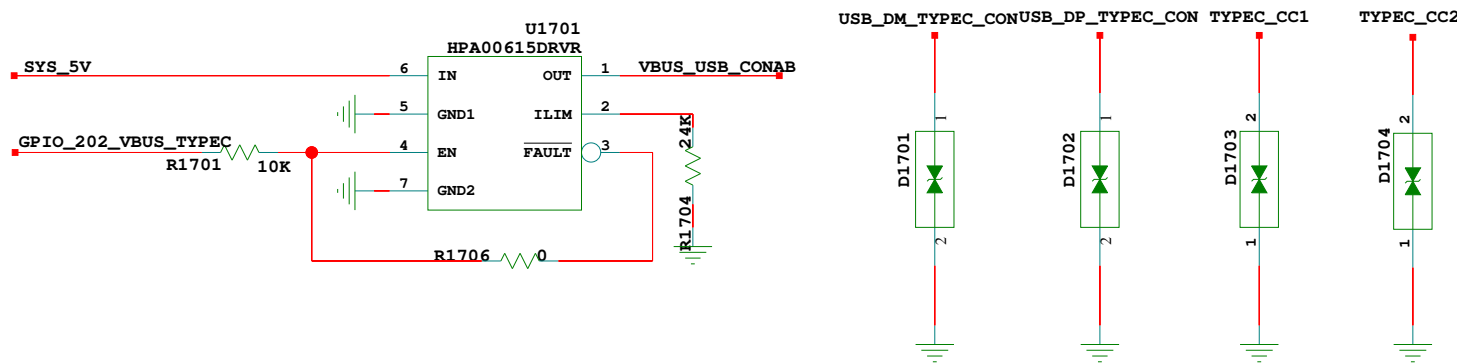
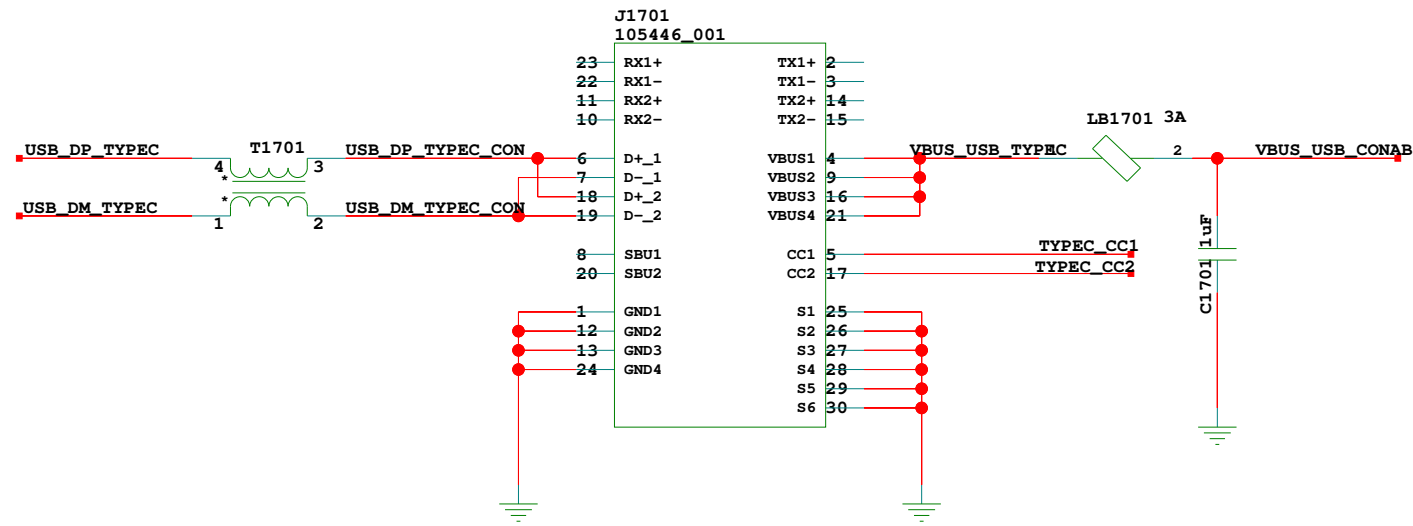


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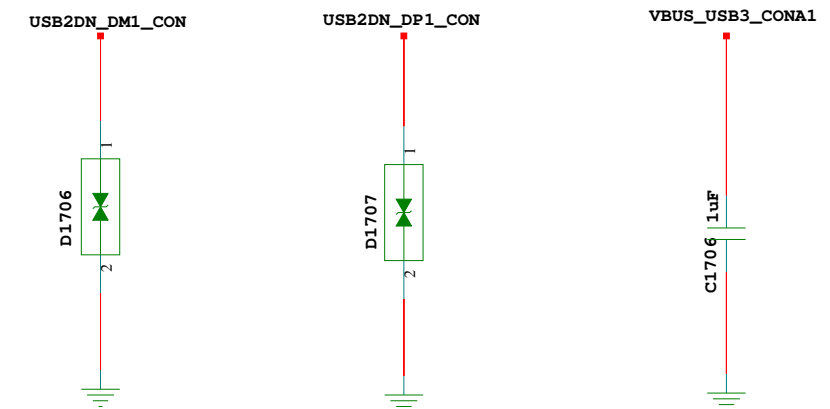
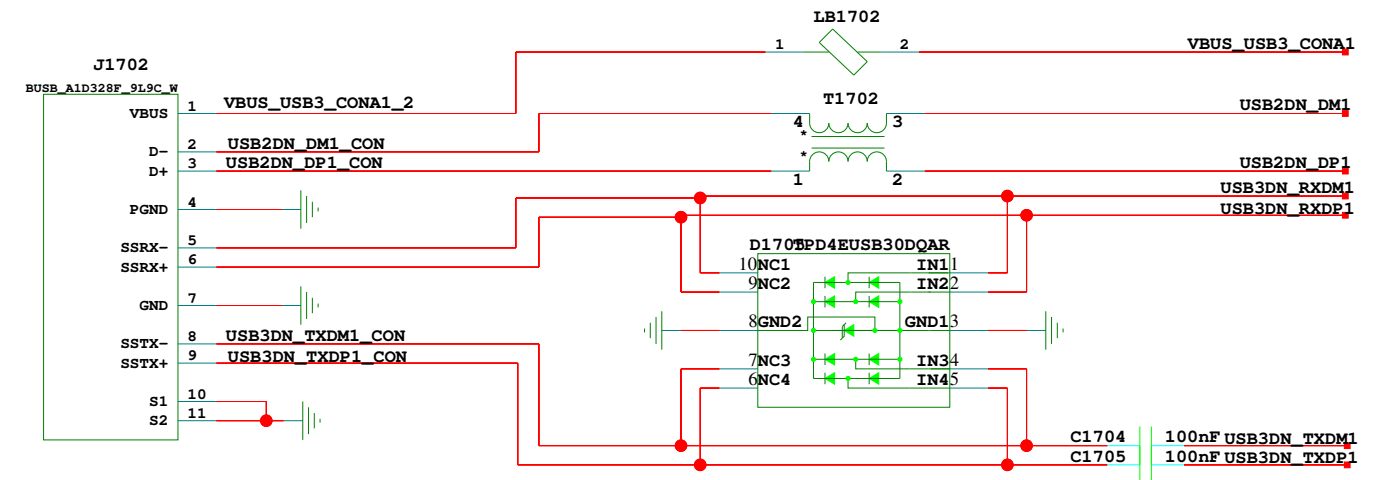
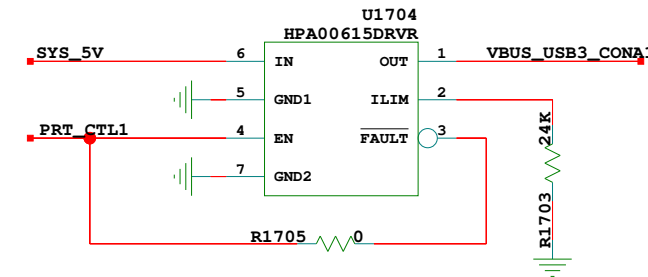
17 USB/Hub-1

TYPEC USB



S	/OE	Function
X	H	Disconnect
L	L	D+, D- = HSD1n
H	L	D+, D- = HSD2n

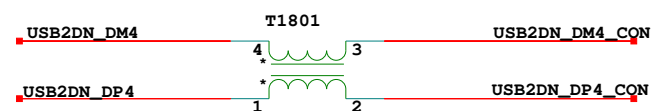
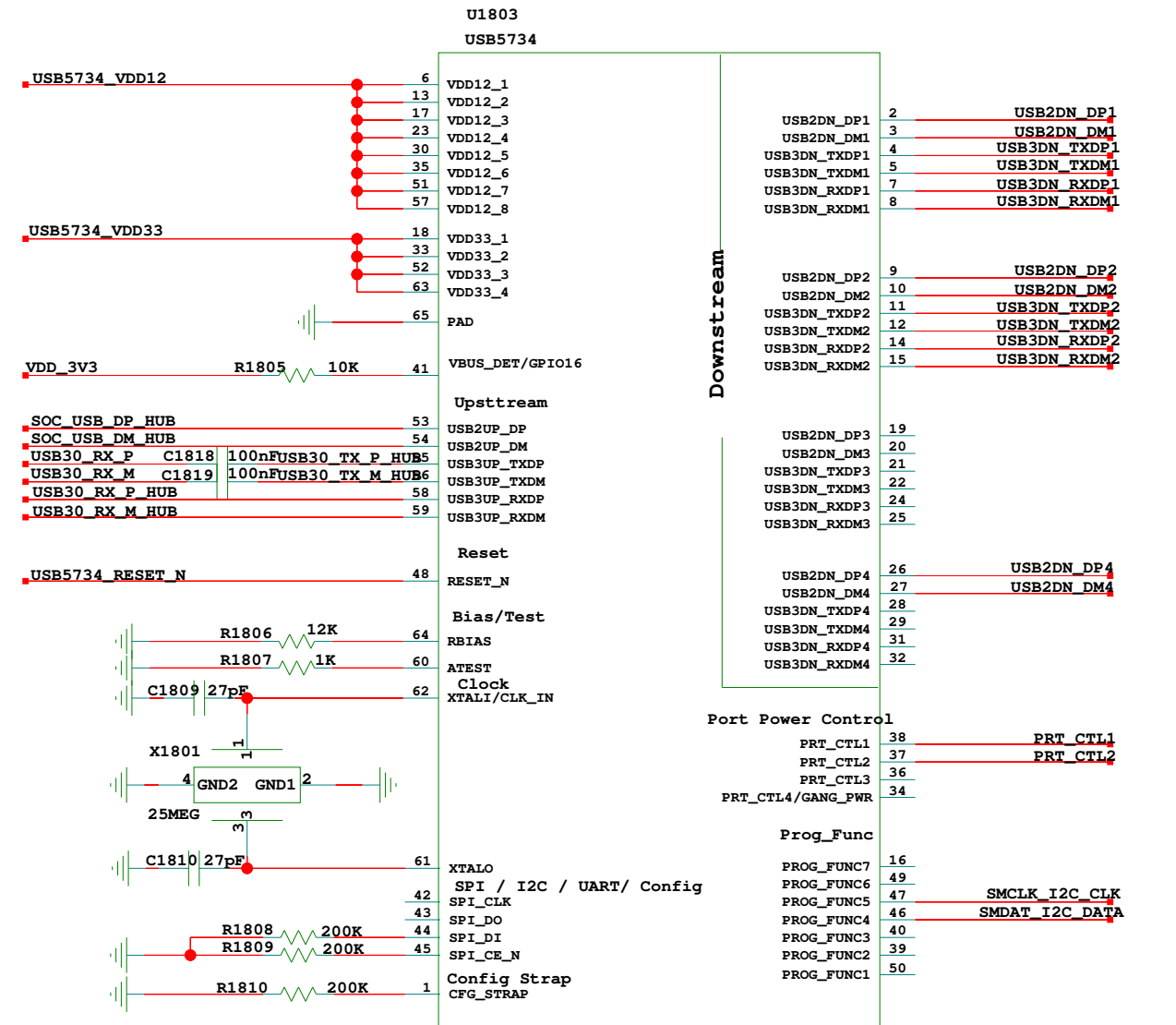
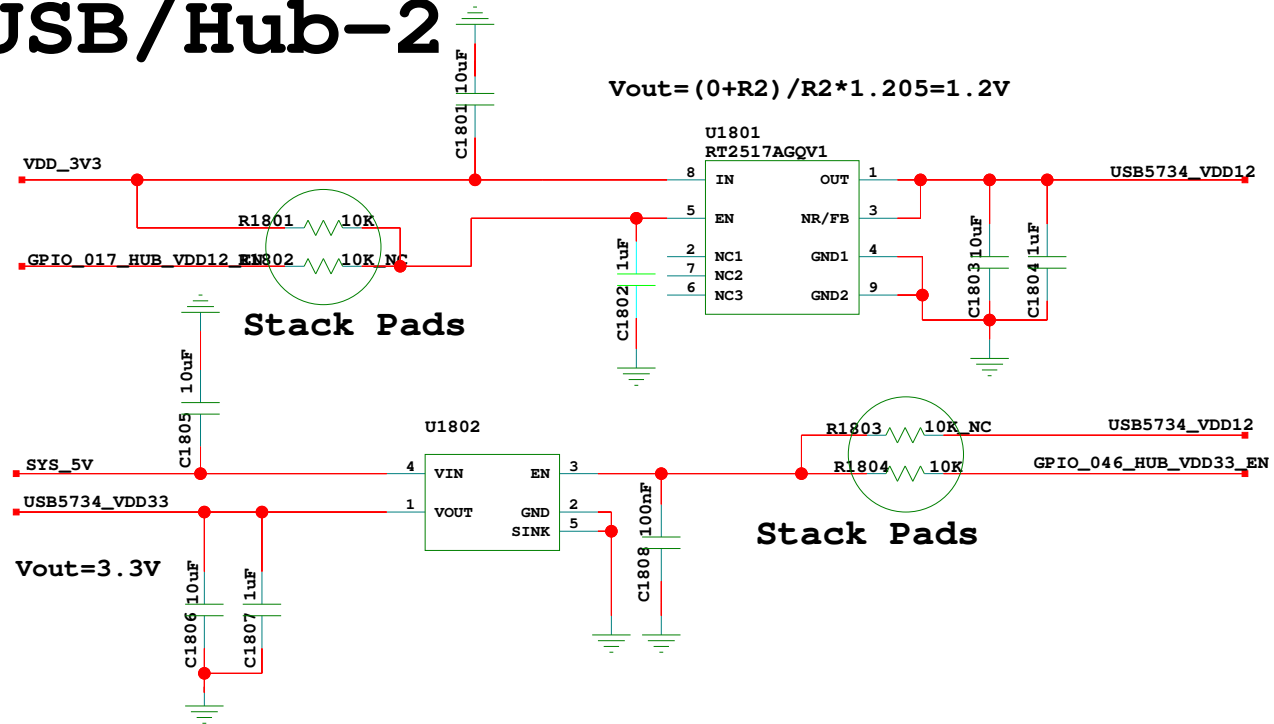
USB3.0 Connector 1



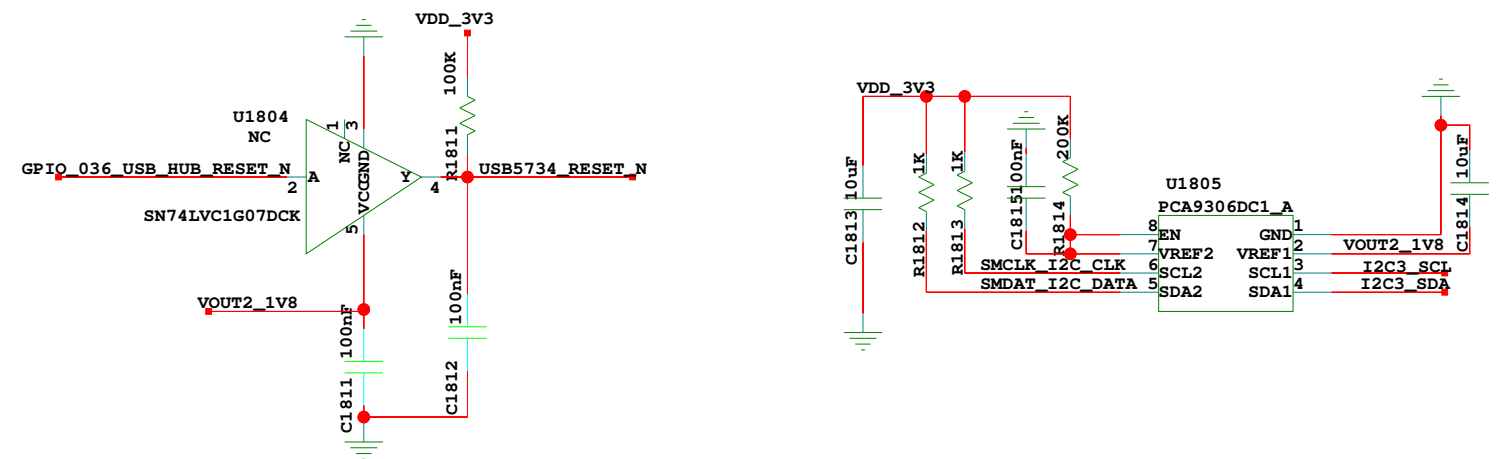
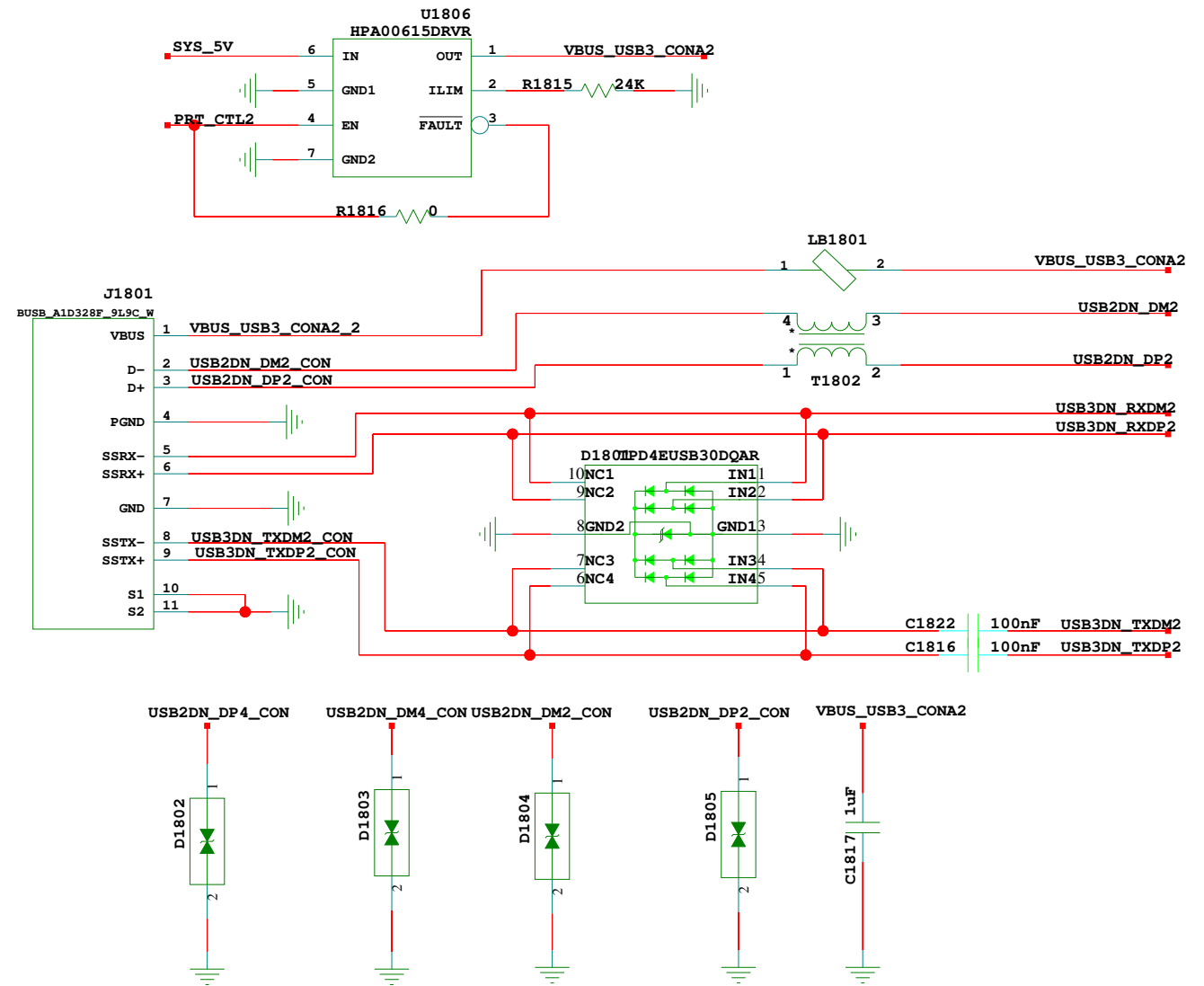
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18 USB/Hub-2



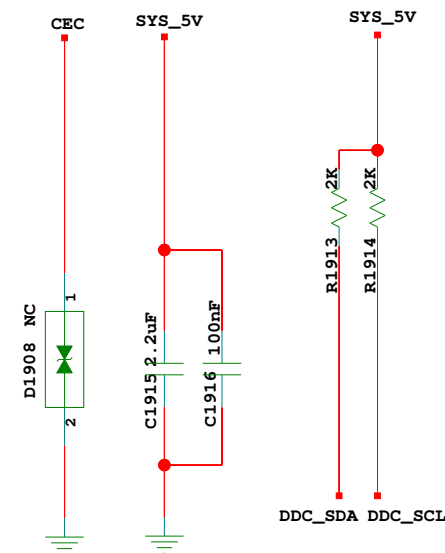
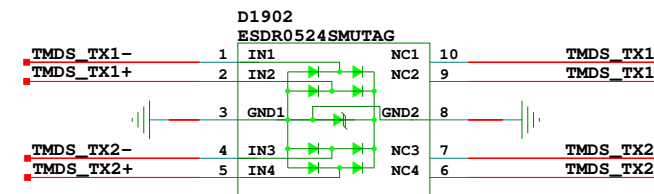
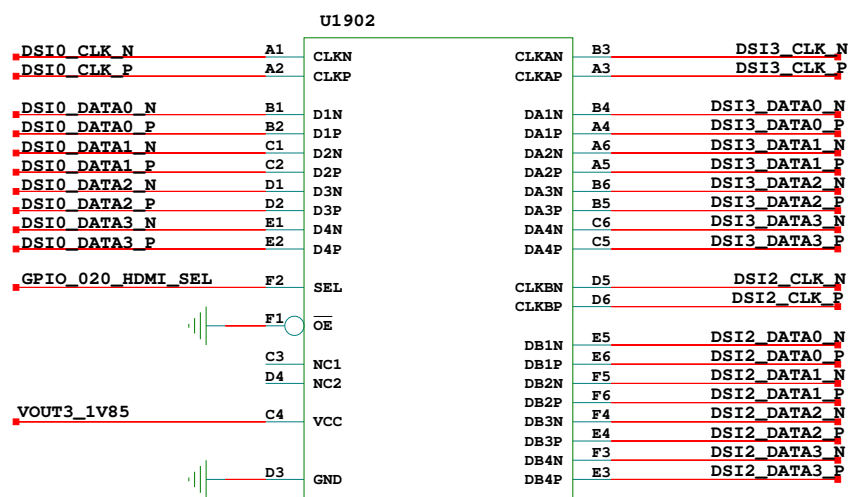
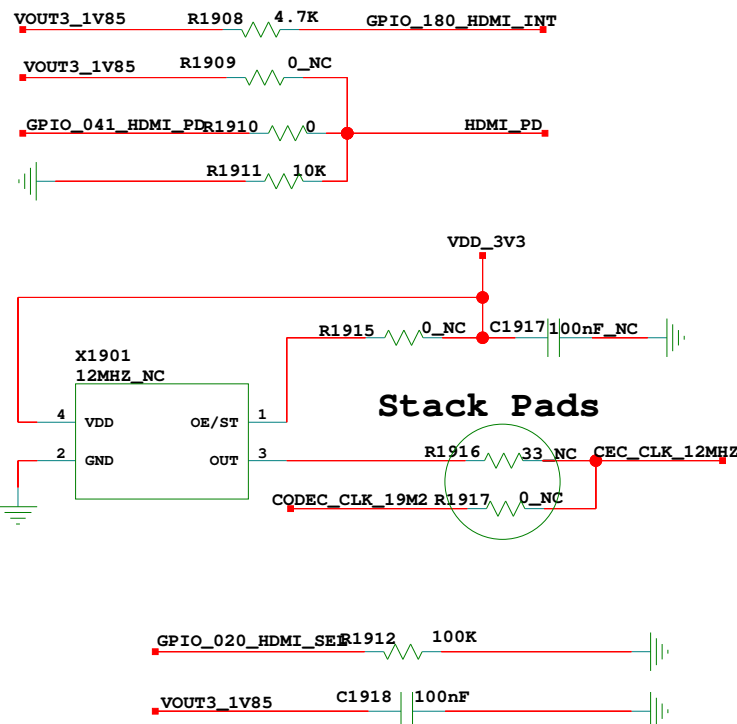
USB3.0 Connector 2



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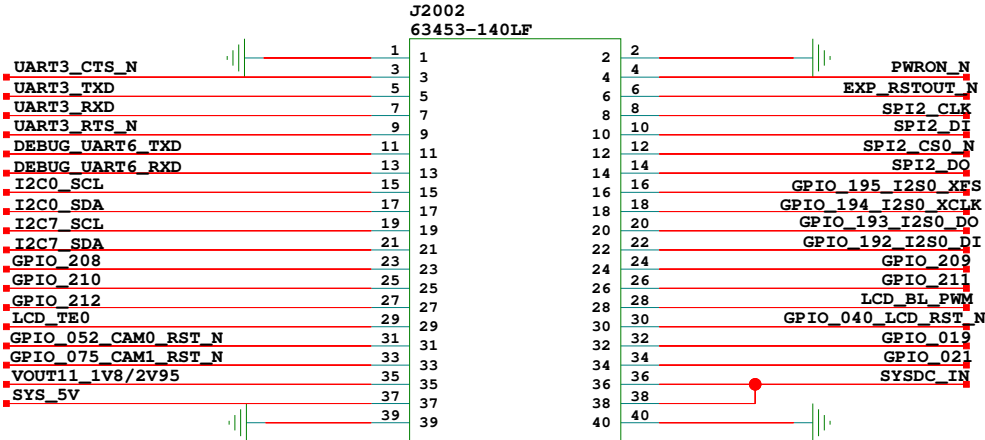
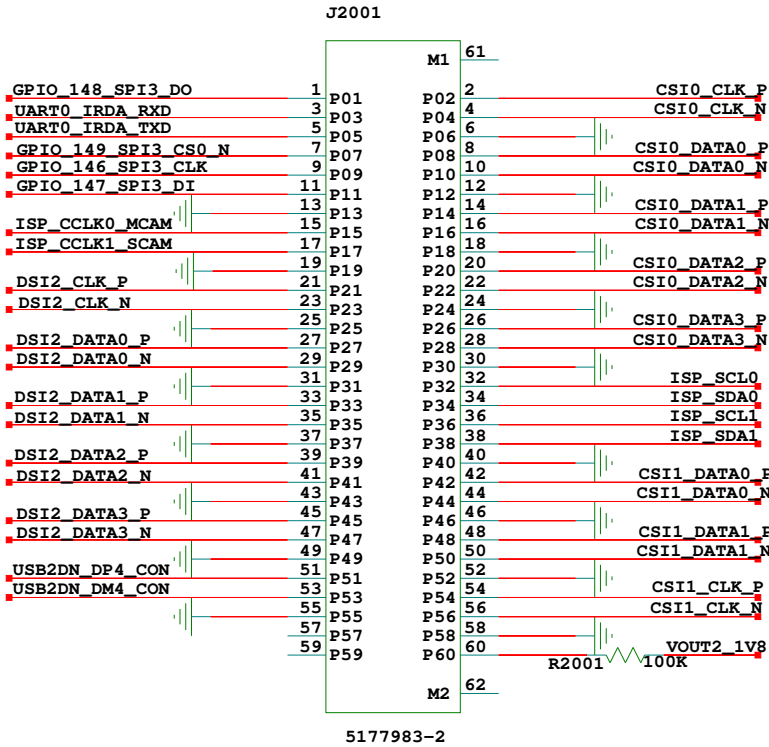
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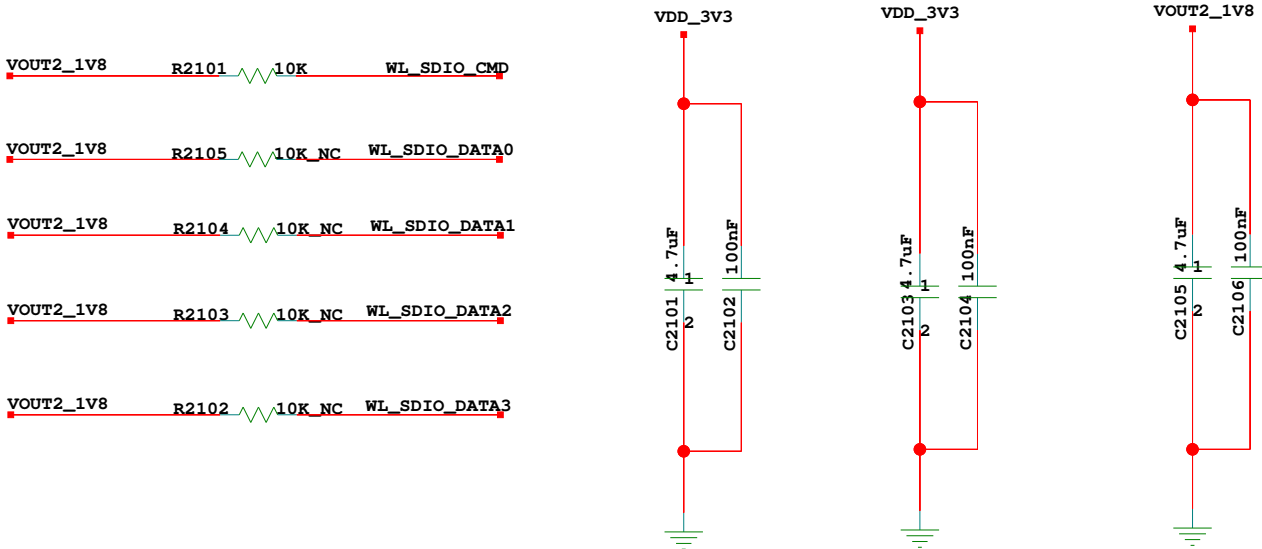
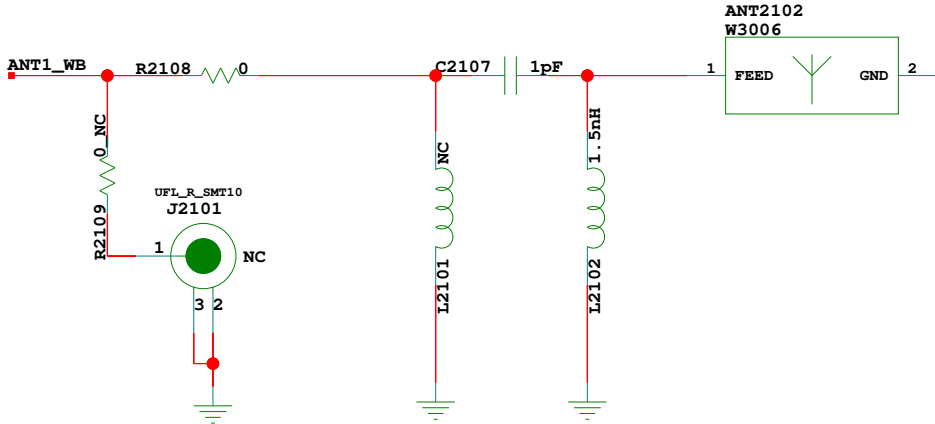
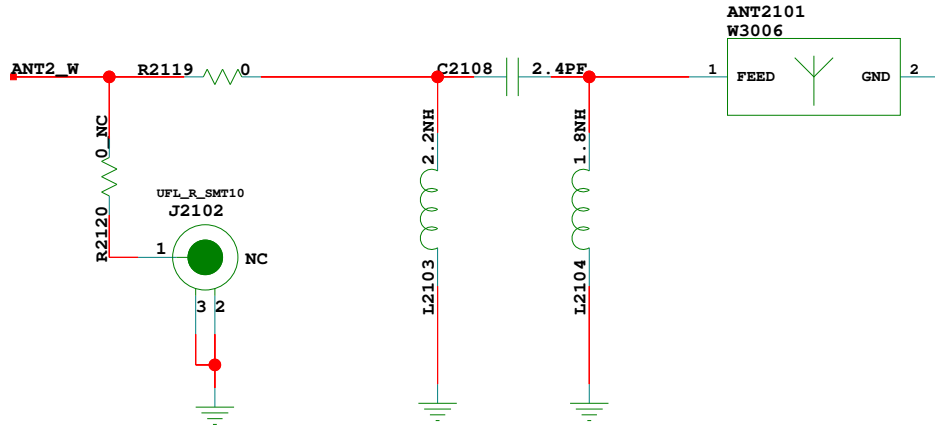
20 IO_CONN



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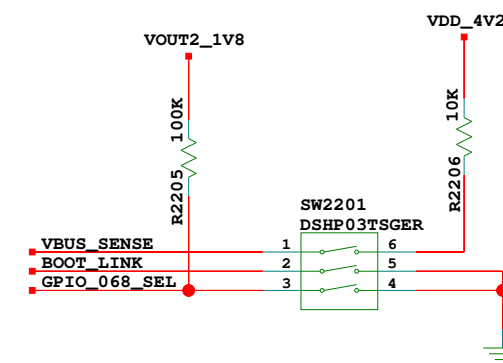
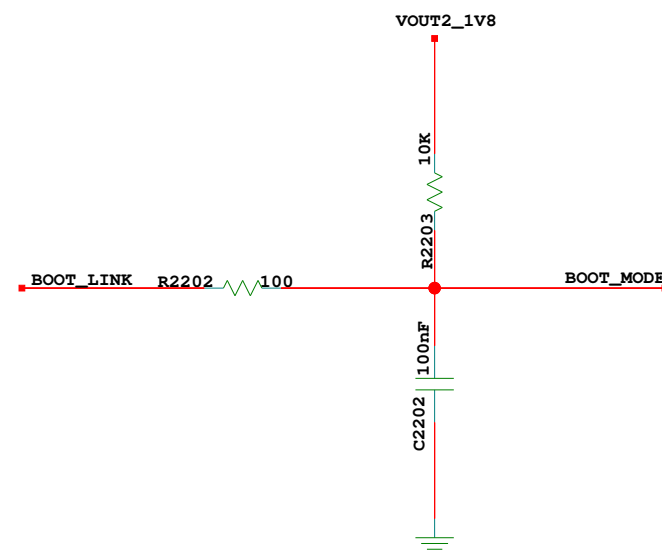
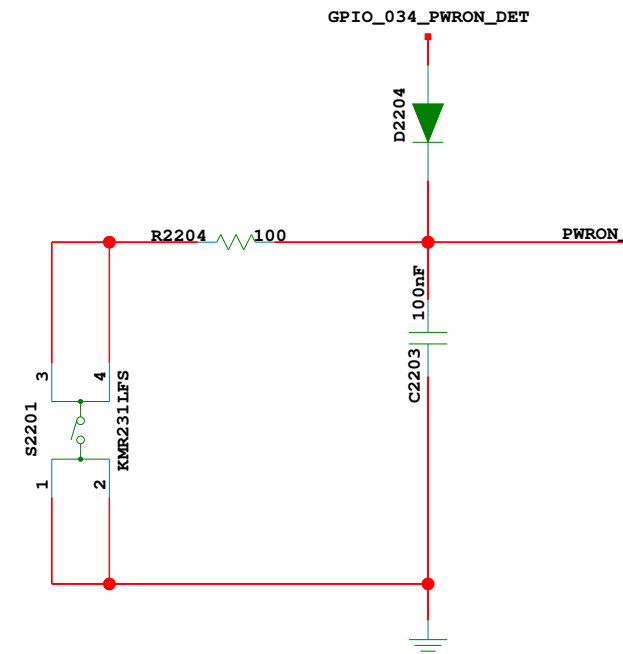
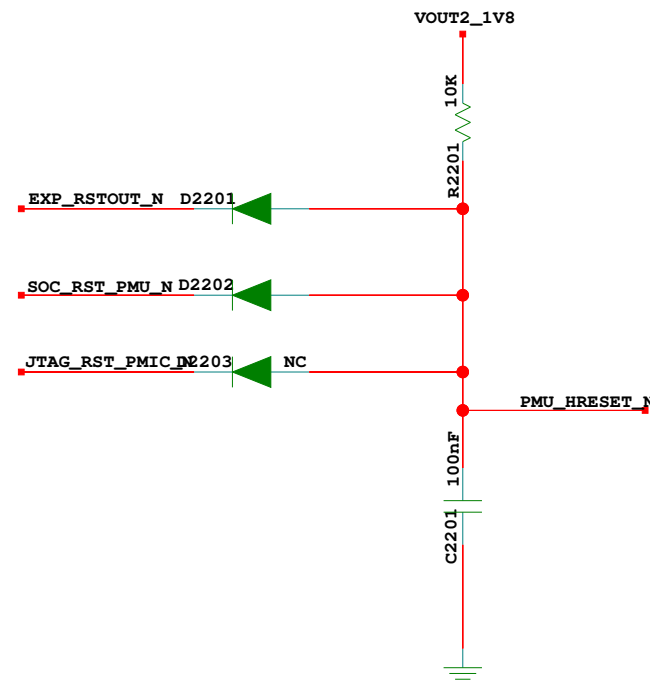
21 WIFI/BT



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22 KEY



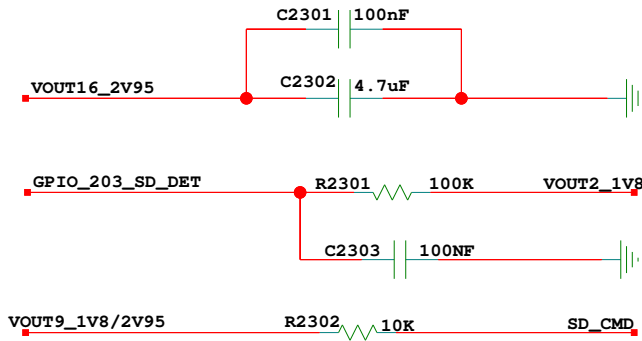
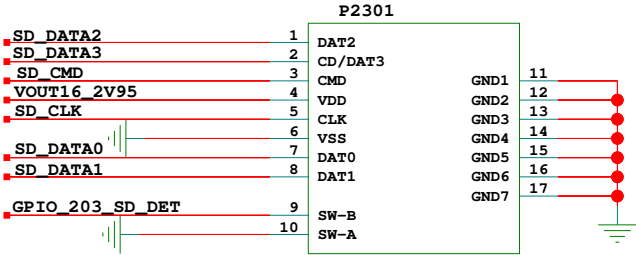
Auto Power Boot SEL

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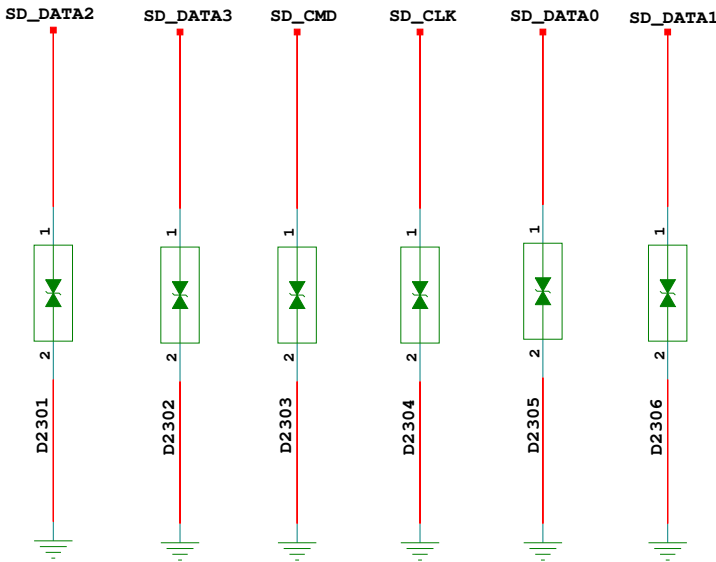
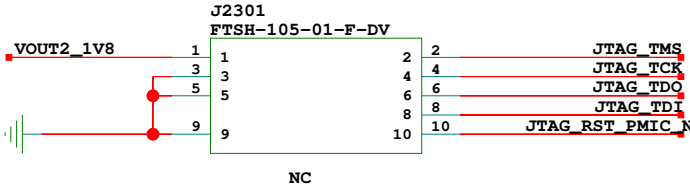
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23 SD/JTAG

SD



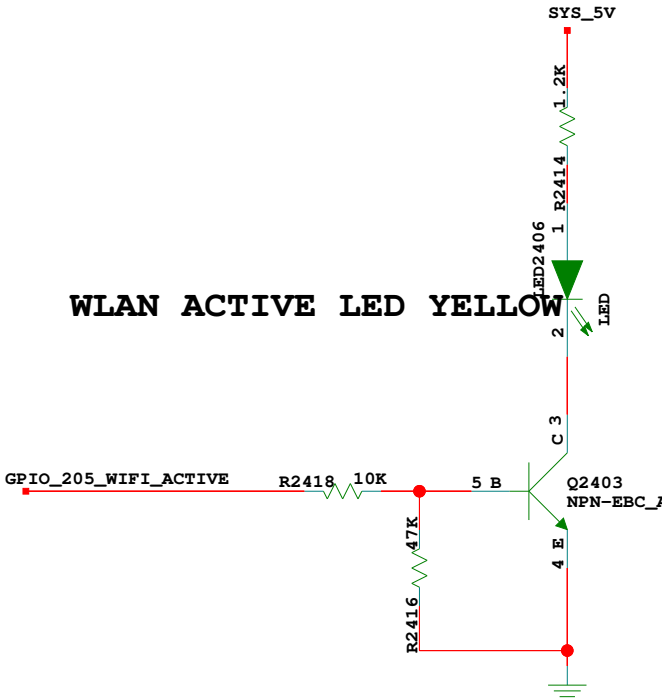
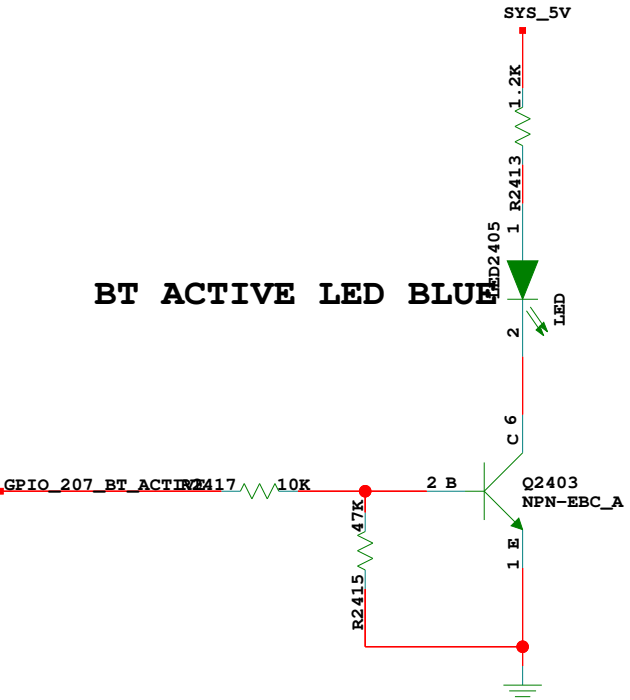
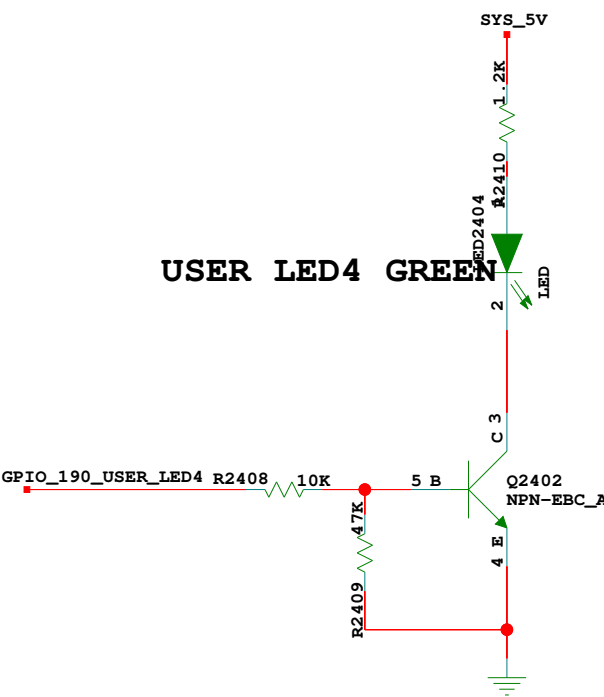
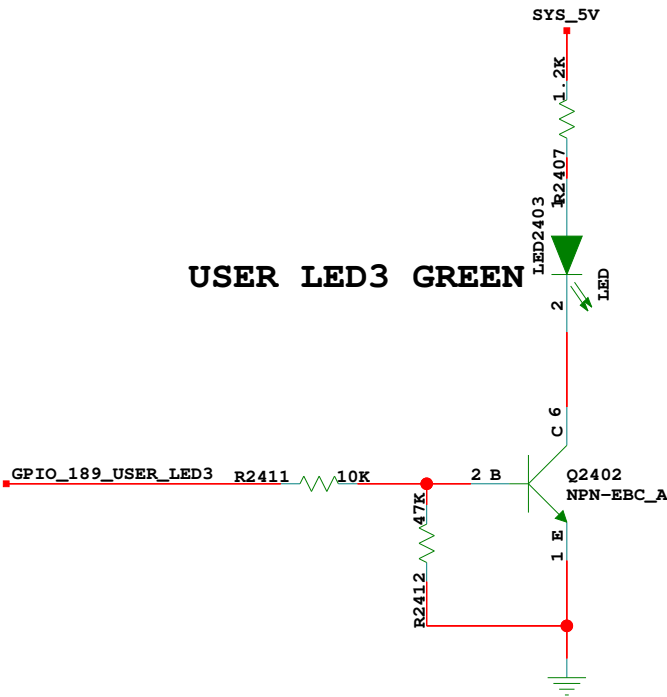
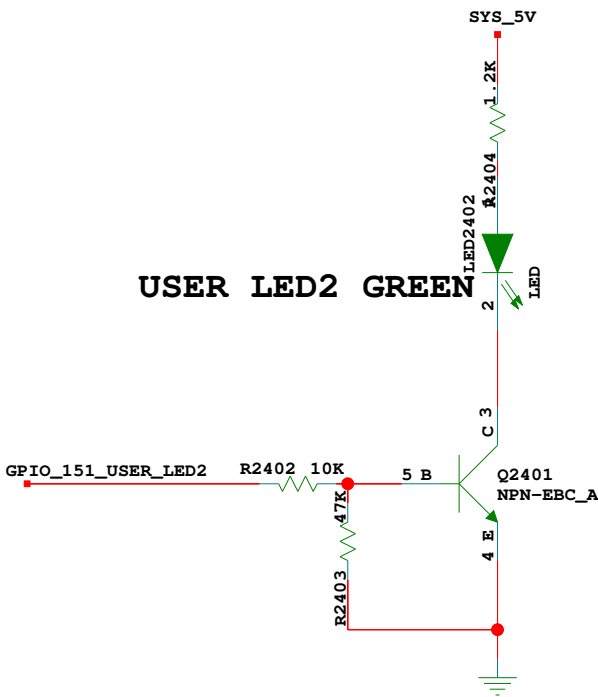
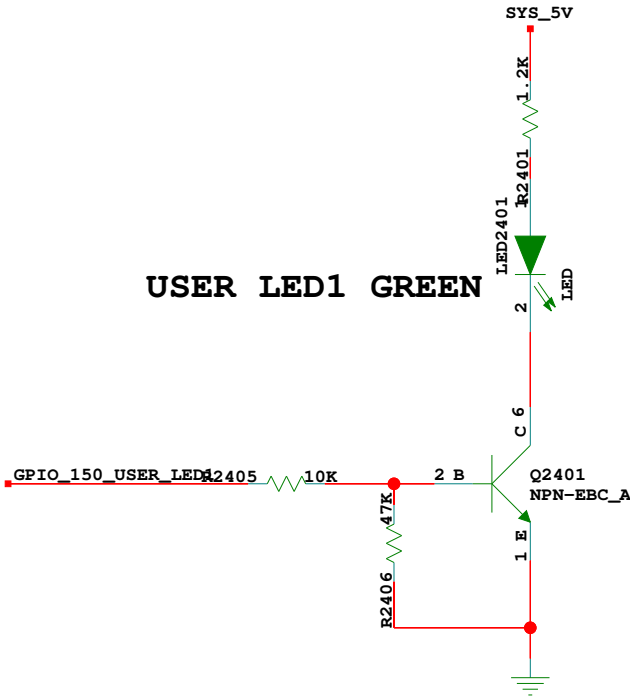
JTAG



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24 User LED



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25 PCIE M.2

