



Radxa ROCK 5 ITX+

Schematic

V1.21

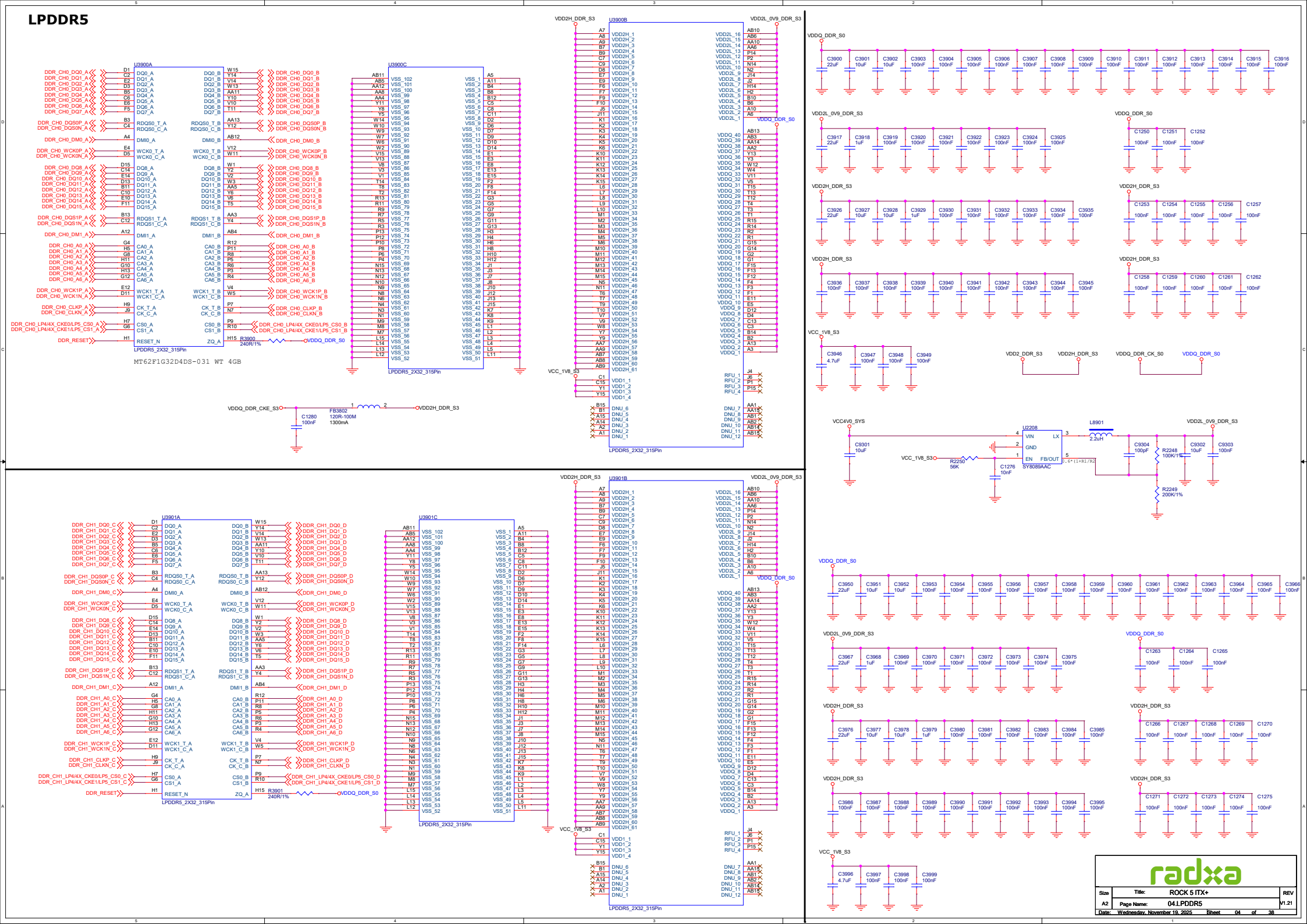
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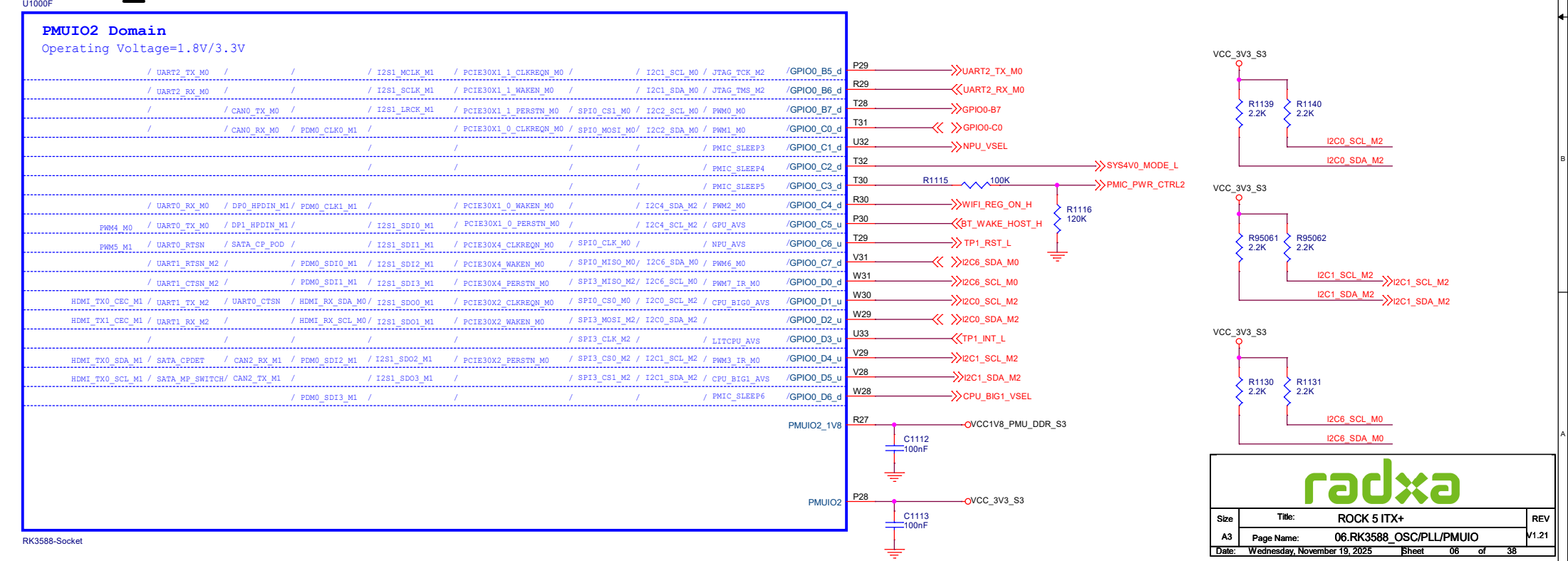
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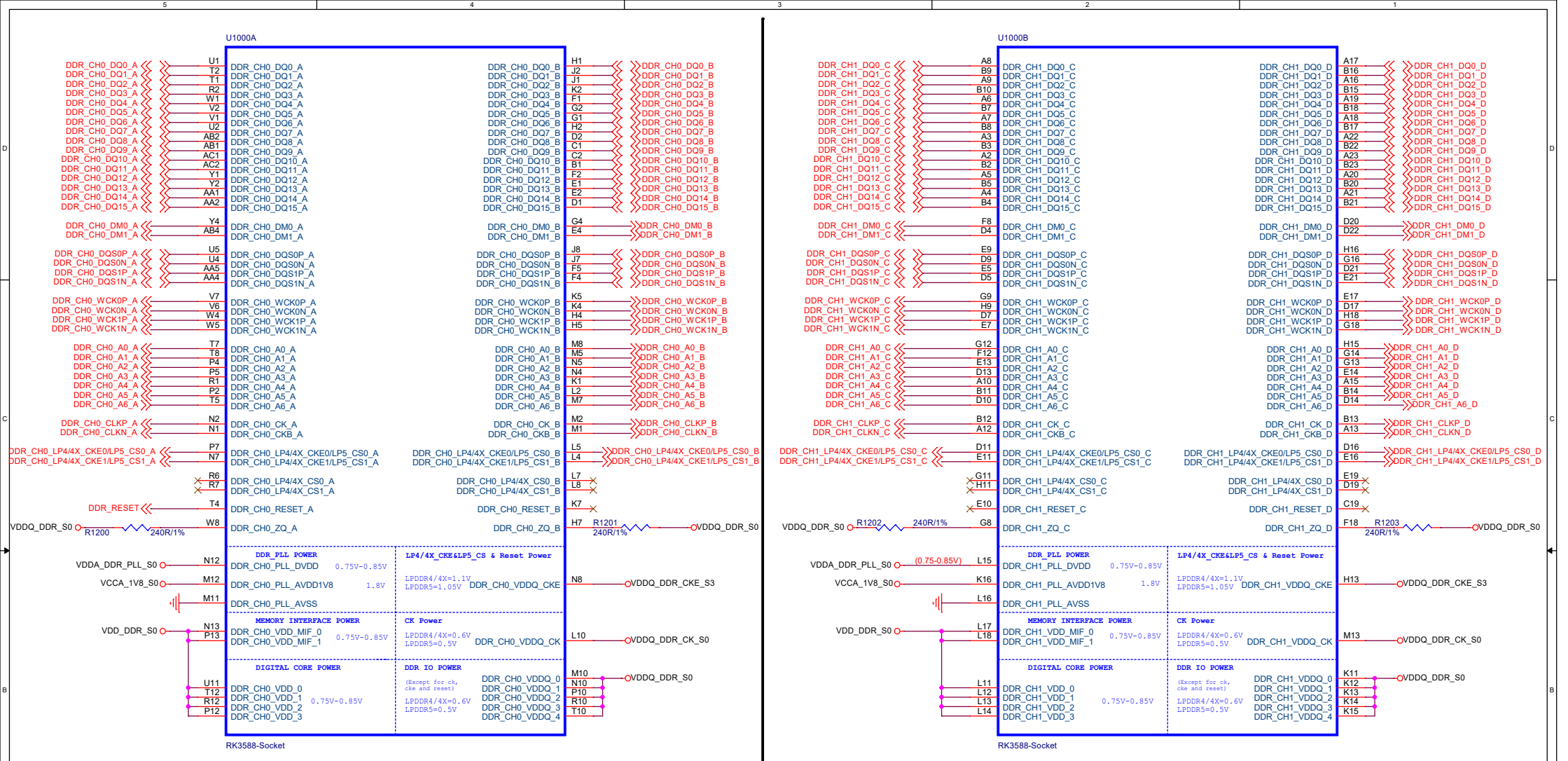
LPDDR5



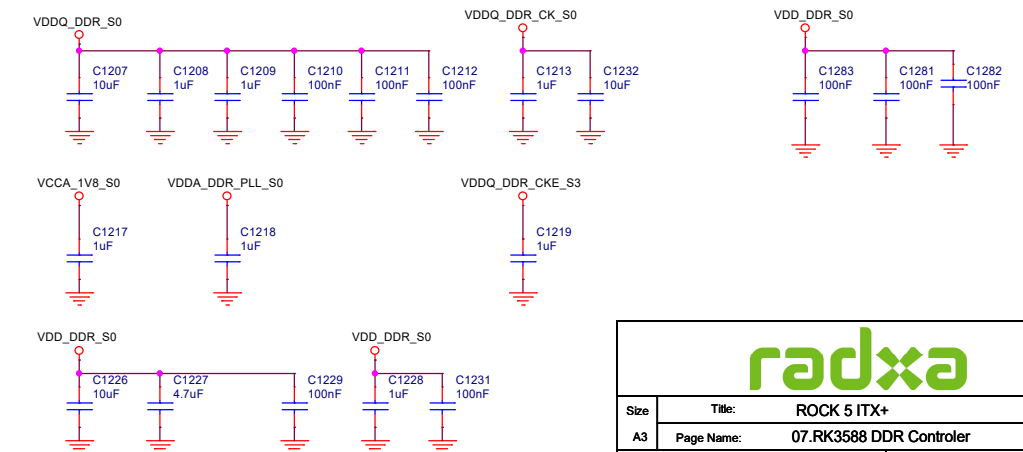
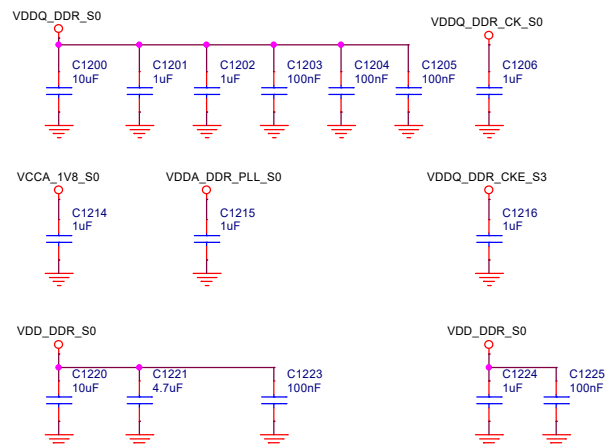
RK3588_E (OSC/PLL/PMUIO1/2)

RK3588_F (PMUIO2)



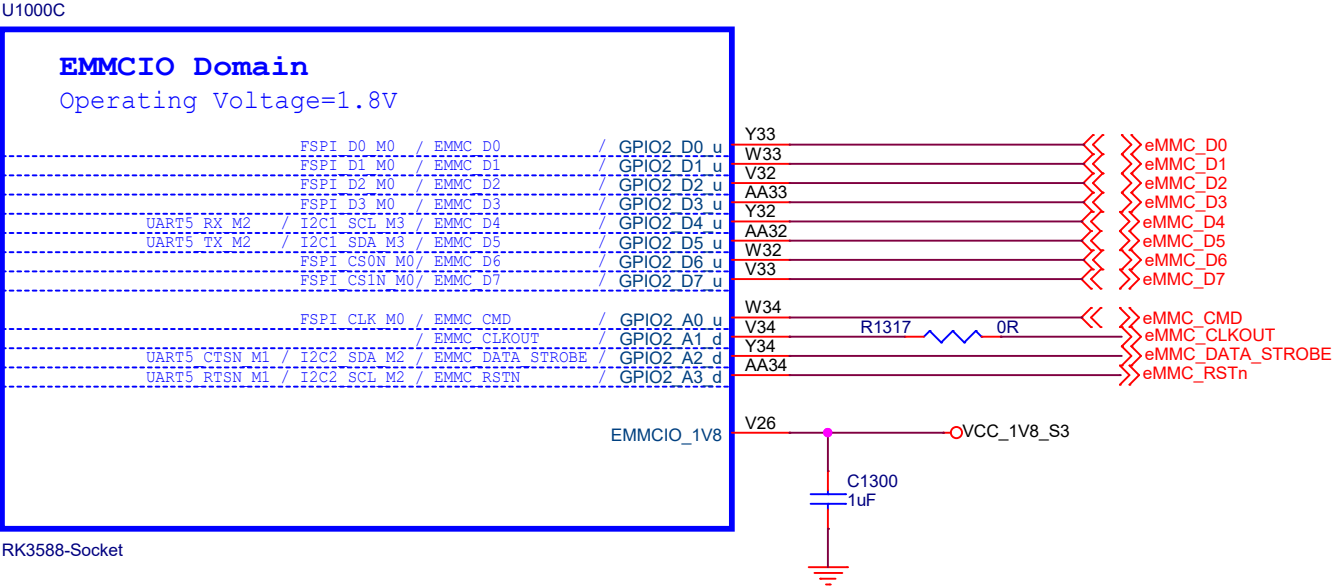


DDR FILTER

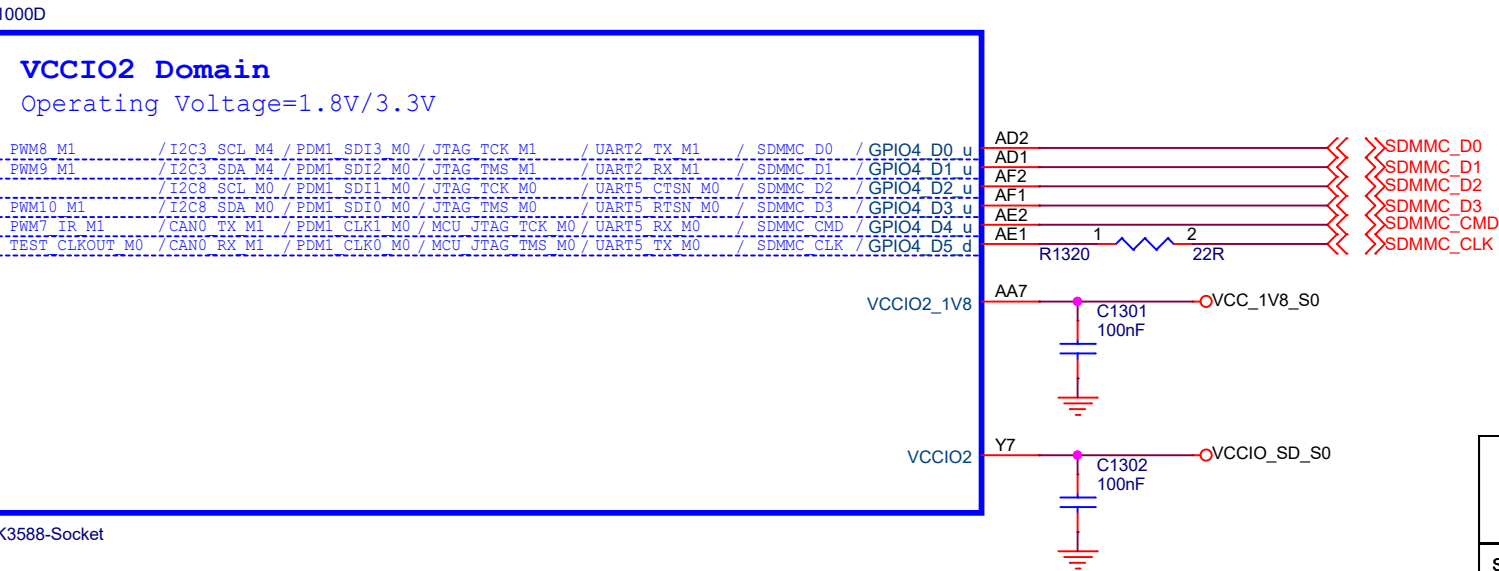


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RK3588_C (EMMCIO Domain)



RK3588_D (VCCIO2 Domain)





Size	Title: ROCK 5 ITX+	REV
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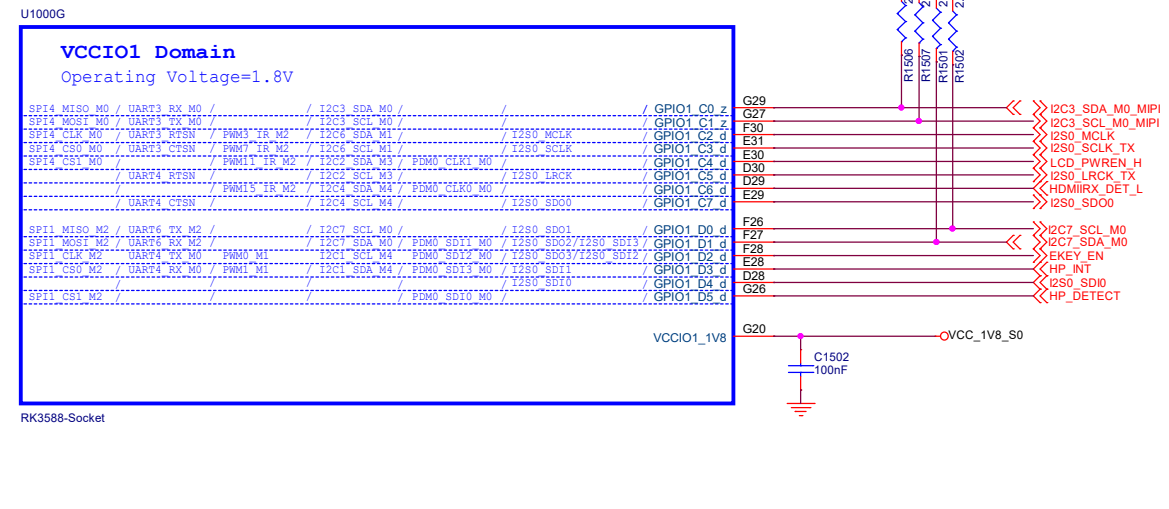
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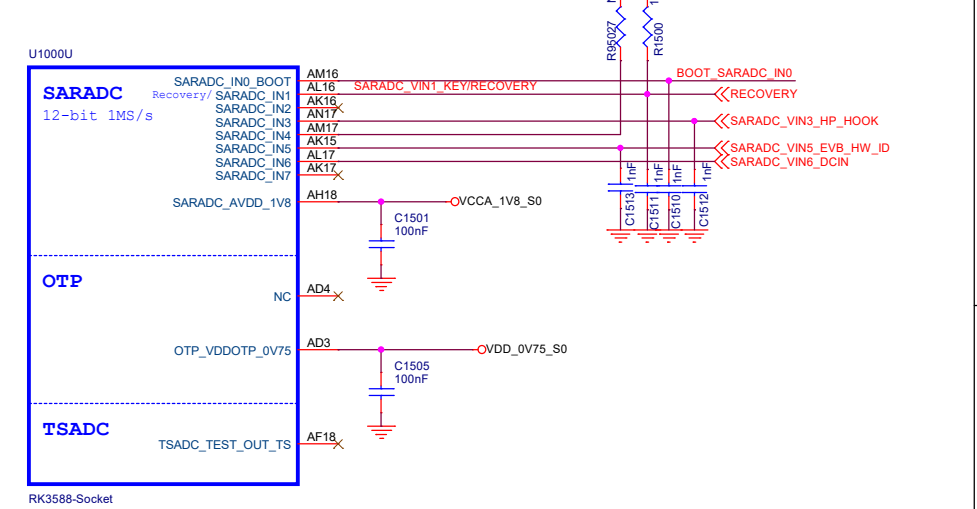
U1000L



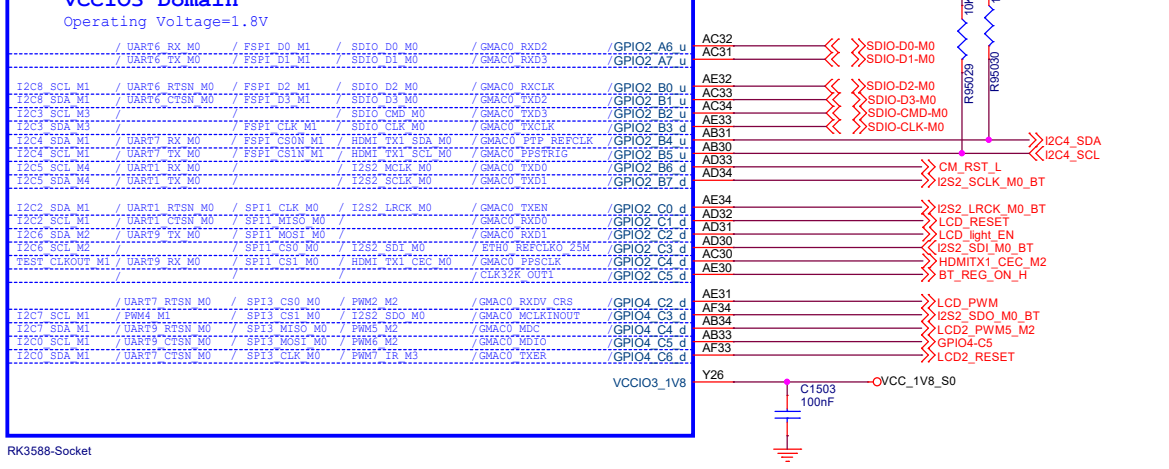
RK3588_G (VCCIO1 Domain)



RK3588_U (SARADC/OTP)



RK3588_H (VCCIO3 Domain)



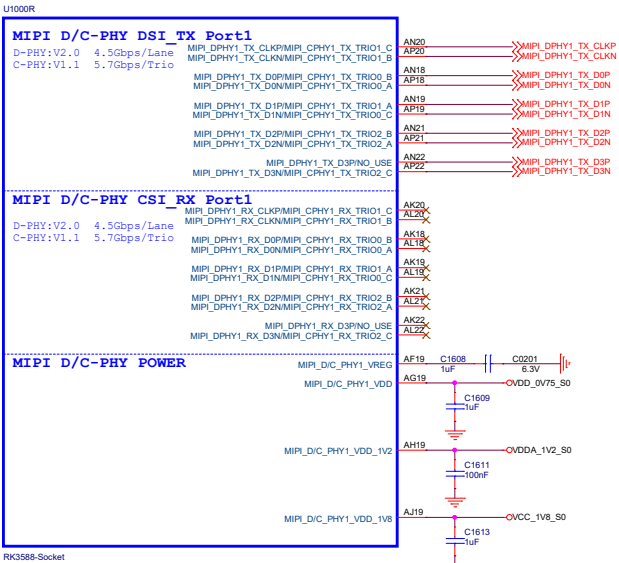
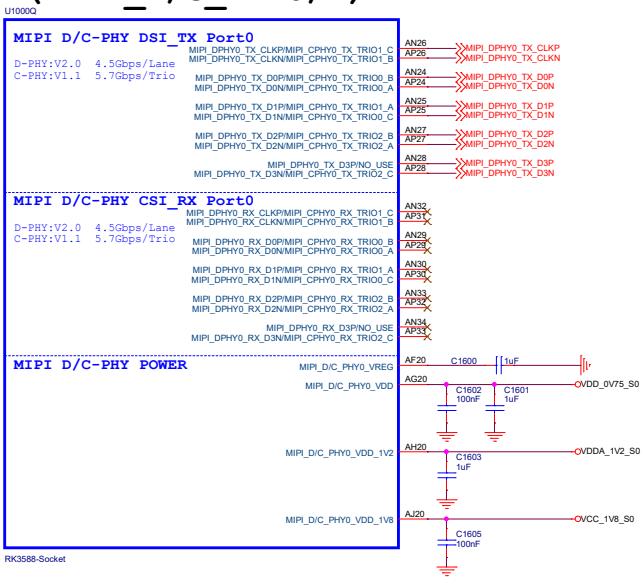
BOOT MODE CONFIG

TABLE 1					
Item	Rup	Rdown	ADC	VOL	BOOT MODE
LEVEL1	DNP	100K	0	0V	USB (Maskrom mode)
LEVEL2	100K	20K	682	0.3V	SD Card-USB
LEVEL3	100K	51K	1365	0.6V	EMMC-USB
LEVEL4	100K	100K	2047	0.9V	FSPI M0-USB
LEVEL5	100K	200K	2730	1.2V	FSPI M1-USB
LEVEL6	100K	499K	3412	1.5V	FSPI M2-USB
LEVEL7	100K	DNP	4095	1.8V	FSPI M2-FSPI M1-FSPI M0-EMMC-SD Card-USB

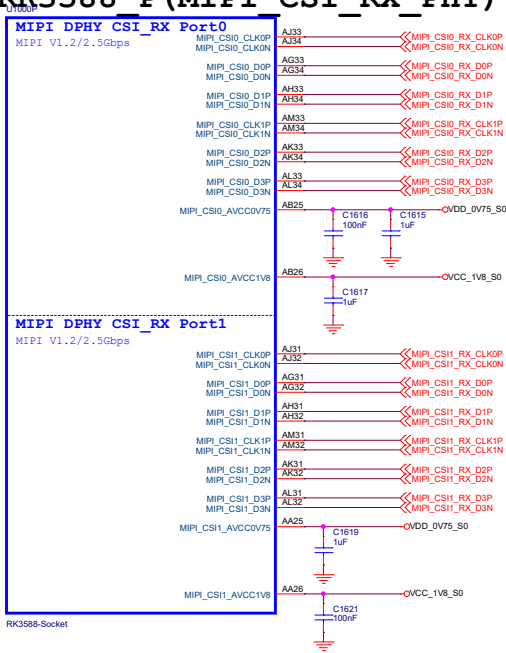
BOARD ID CONFIG

TABLE 2					
Item	Rup	Rdown	ADC	VOL	VERSION
LEVEL1	DNP	100K	0	0V	A
LEVEL2	100K	20K	682	0.3V	B
LEVEL3	100K	51K	1365	0.6V	C
LEVEL4	100K	100K	2047	0.9V	D
LEVEL5	100K	200K	2730	1.2V	E
LEVEL6	100K	499K	3412	1.5V	F
LEVEL7	100K	DNP	4095	1.8V	H

RK3588_Q/R(MIPI_D/C_PHY0/1)



RK3588_P(MIPI CSI_RX_PHY)

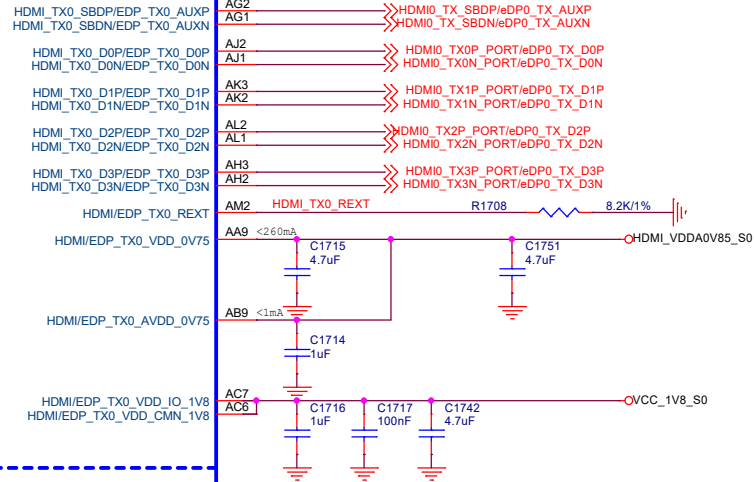


RK3588_S (HDMI2.1 TX)

U1000S

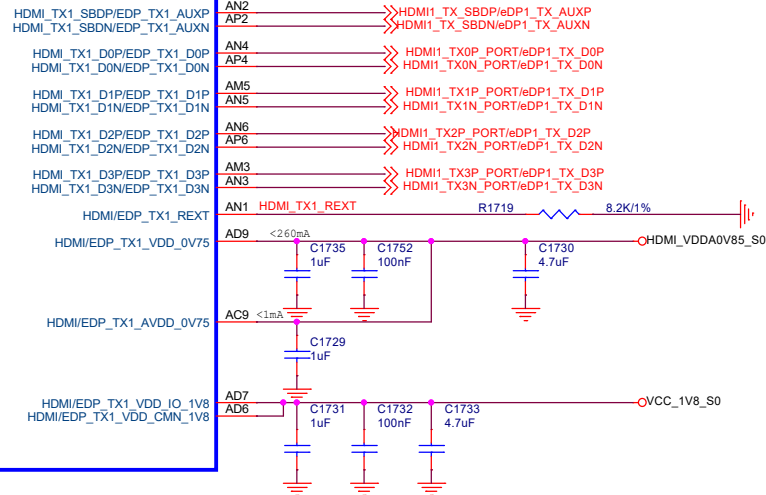
HDMI TX/eDP MUX Port0

HDMI:V2.1 12Gbps
eDP: V1.3 5.4Gbps



HDMI TX/eDP MUX Port1

HDMI:V2.1 12Gbps
eDP: V1.3 5.4Gbps



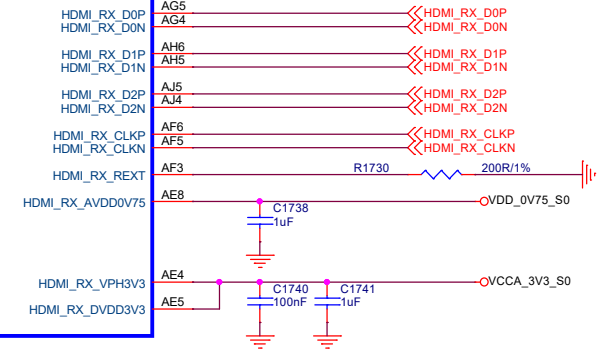
RK3588-Socket

RK3588_T (HDMI20 RX)

U1000T

HDMI RX

HDMI:V2.0

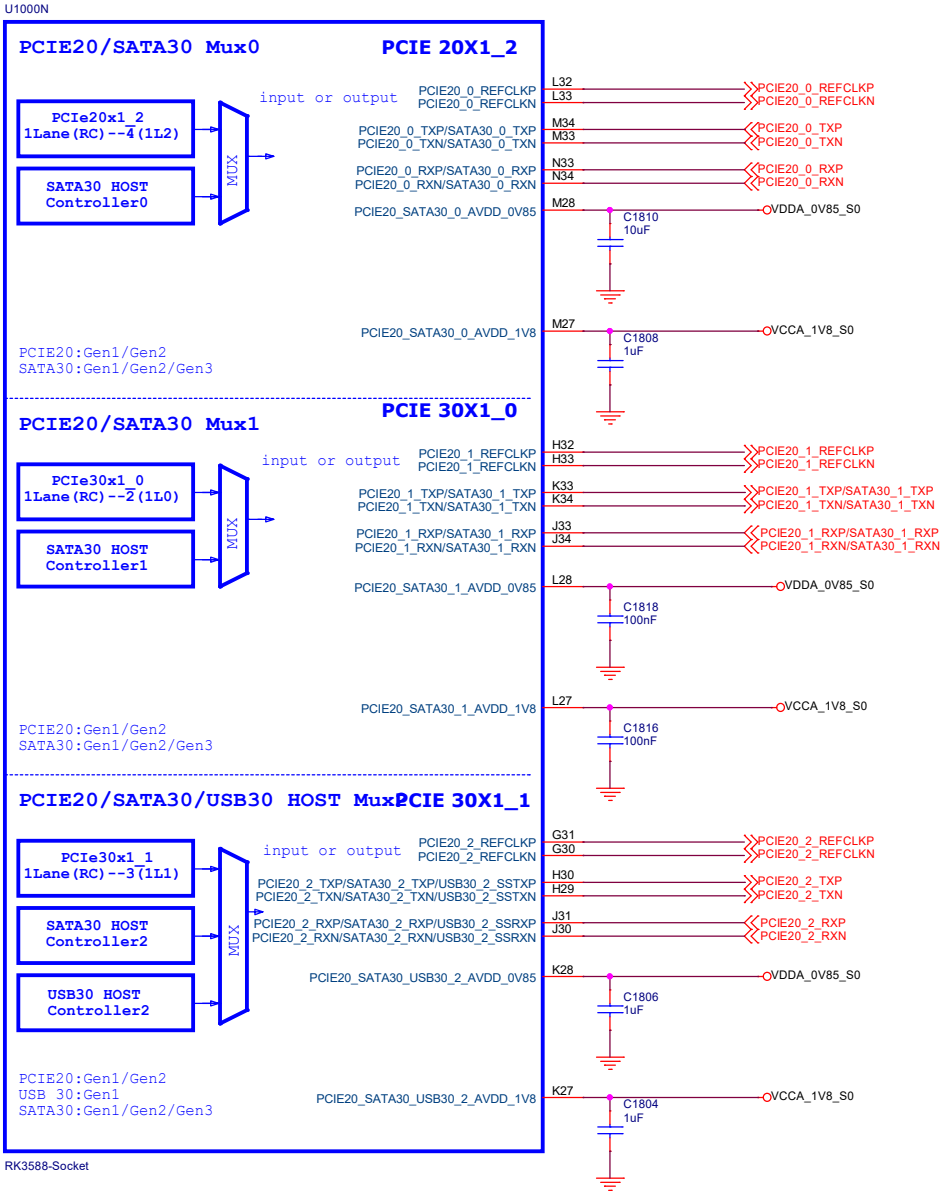


RK3588-Socket

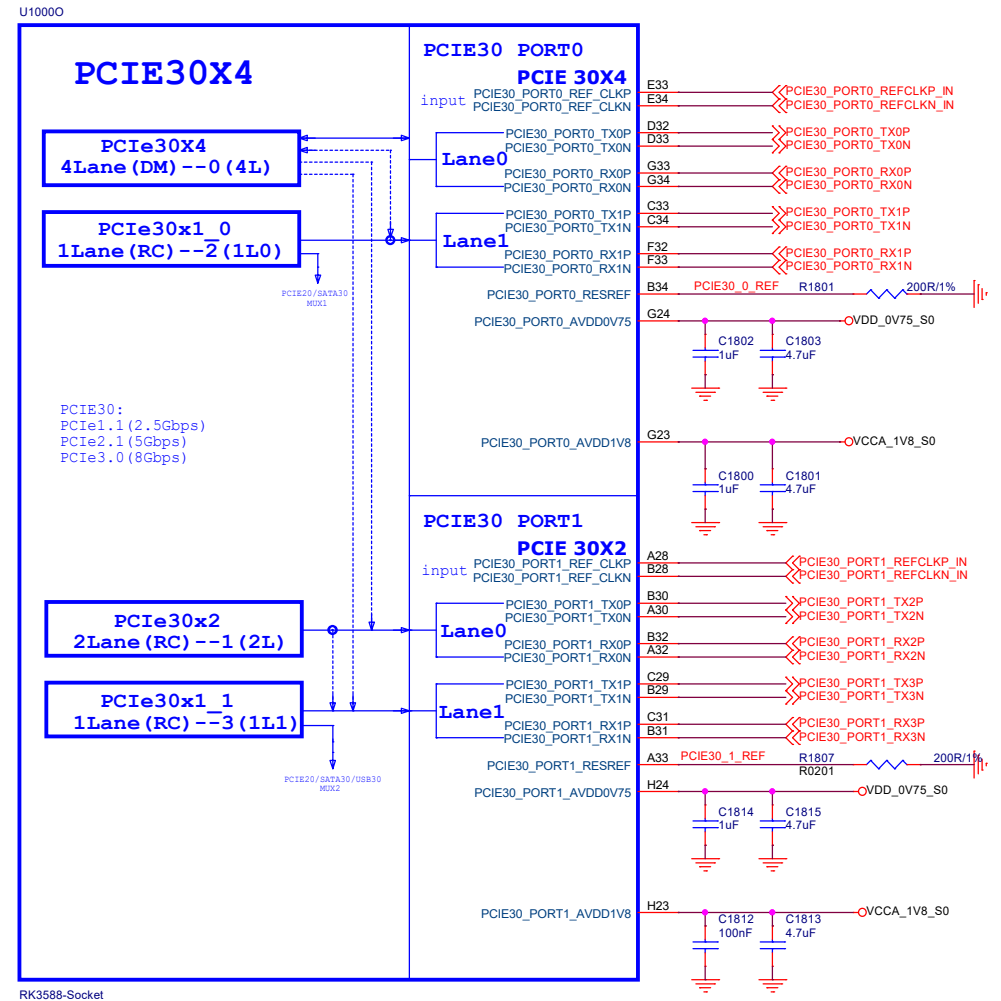
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RK3588_N (PCIE20)



RK3588_O (PCIE30)



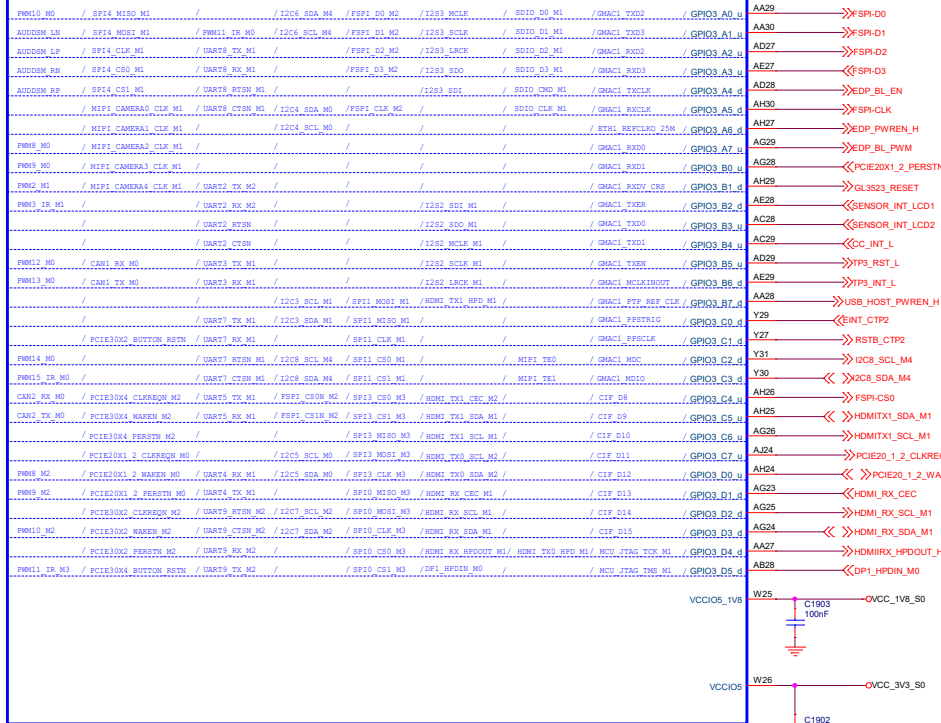
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RK3588_J (VCCIO5 Domain)

U1000J

VCCIO5 Domain

Operating Voltage=1.8V/3.3V



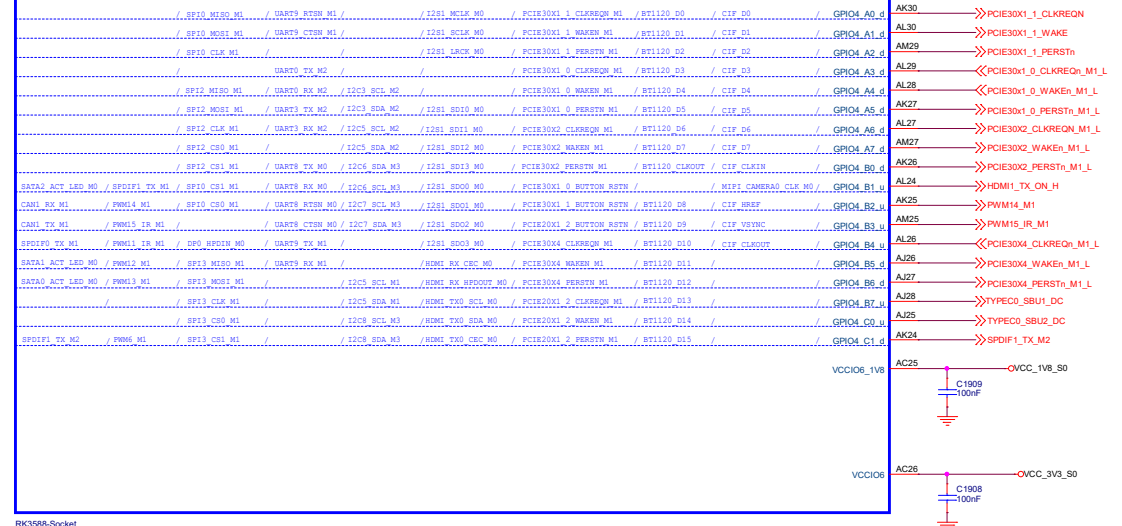
RK3588-Socket

RK3588_K (VCCIO6 Domain)

U1000K

VCCIO6 Domain

Operating Voltage=1.8V/3.3V



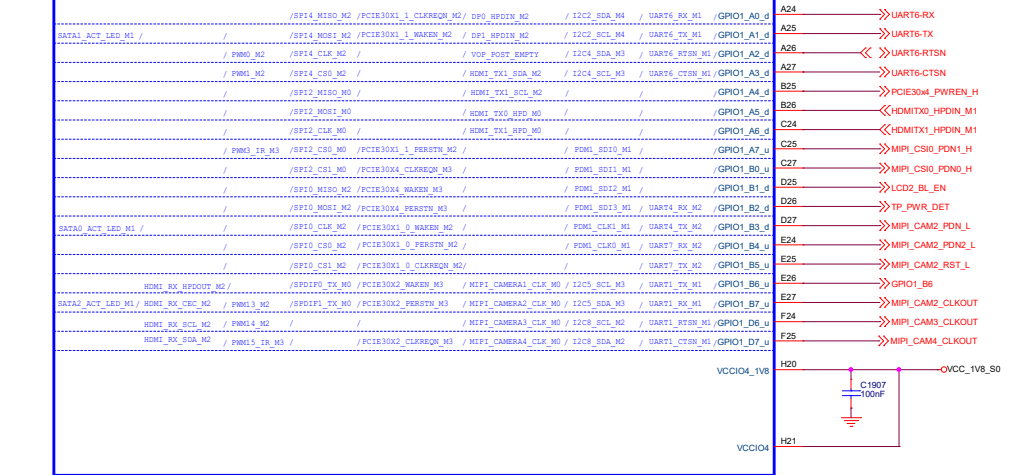
RK3588-Socket

RK3588_I (VCCIO4 Domain)

U1000I

VCCIO4 Domain

Operating Voltage=1.8V/3.3V

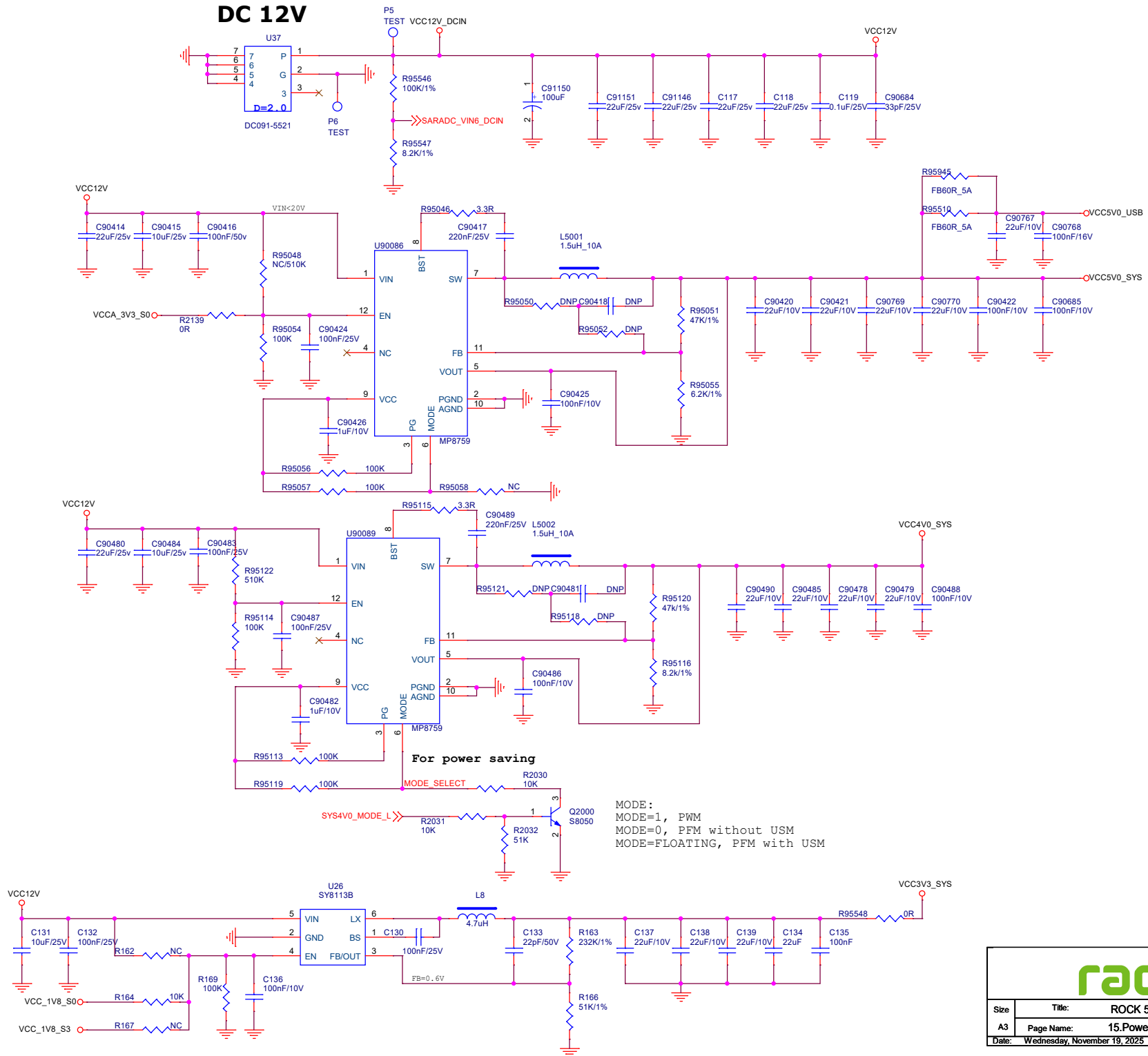


RK3588-Socket

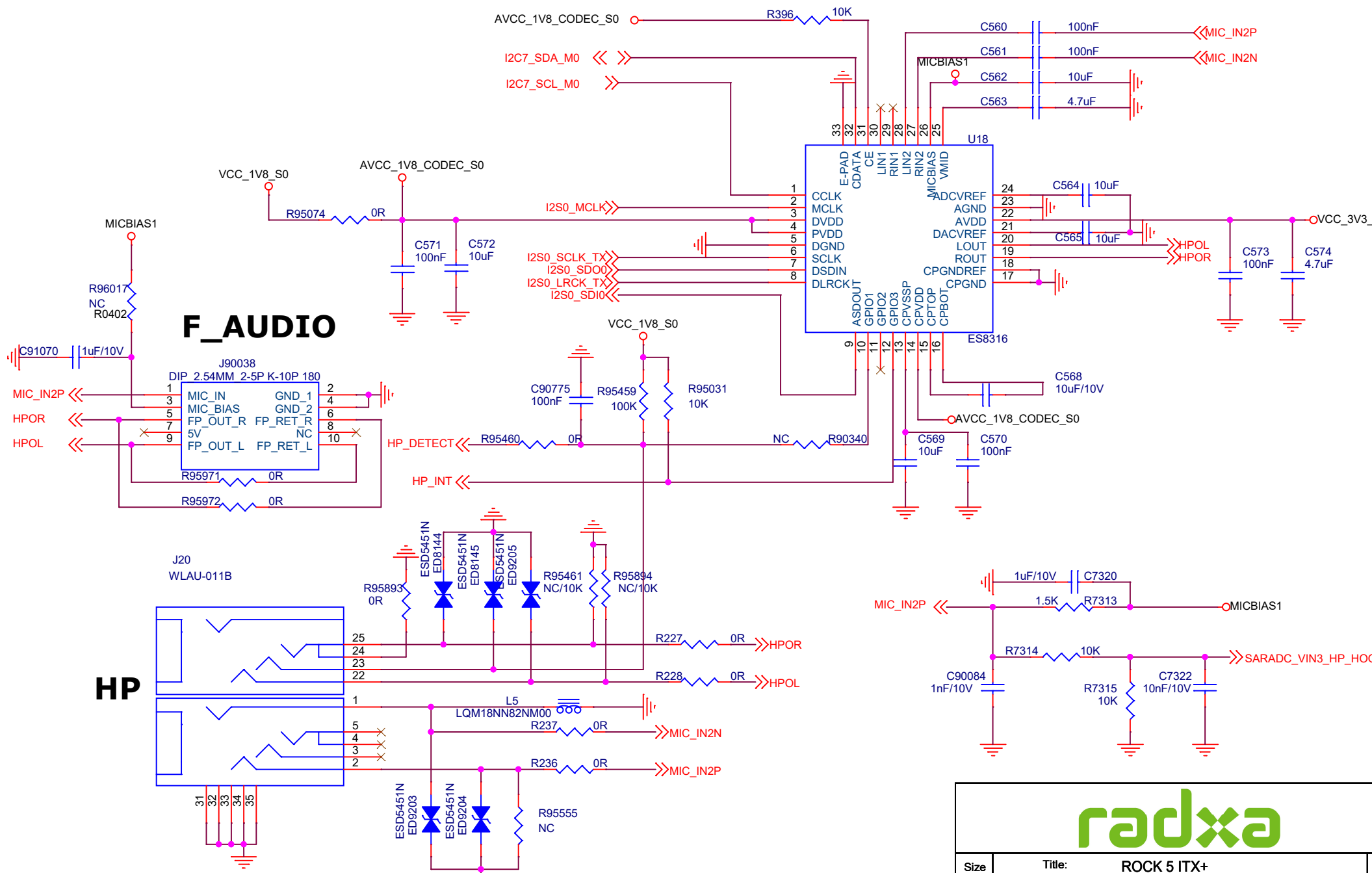
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Power/DC IN

DC 12V



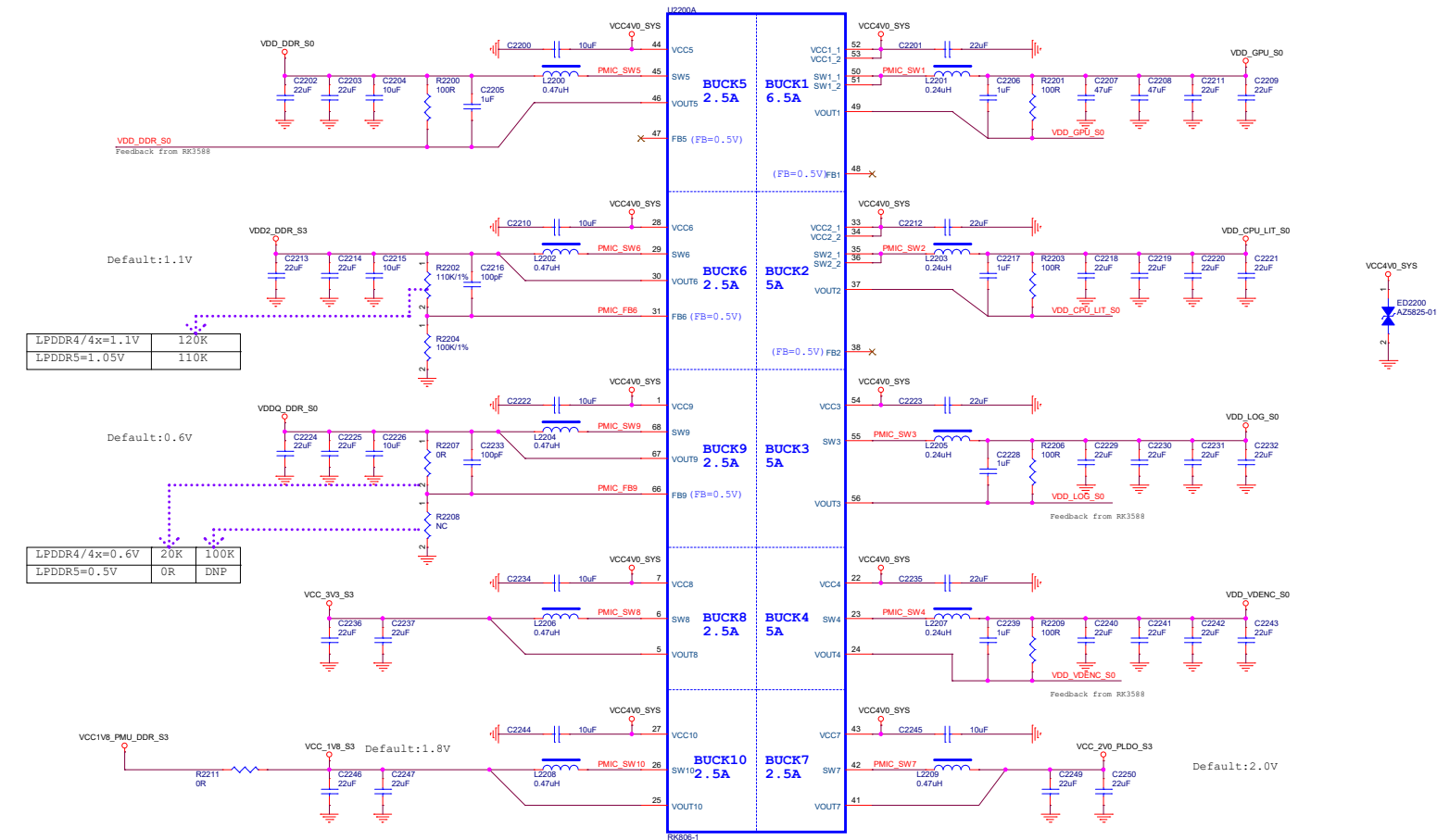
CODEC ES8316



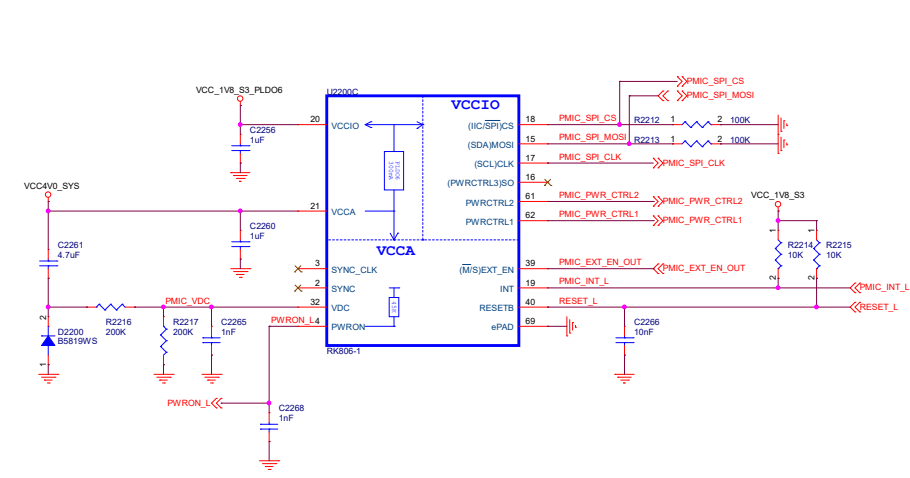


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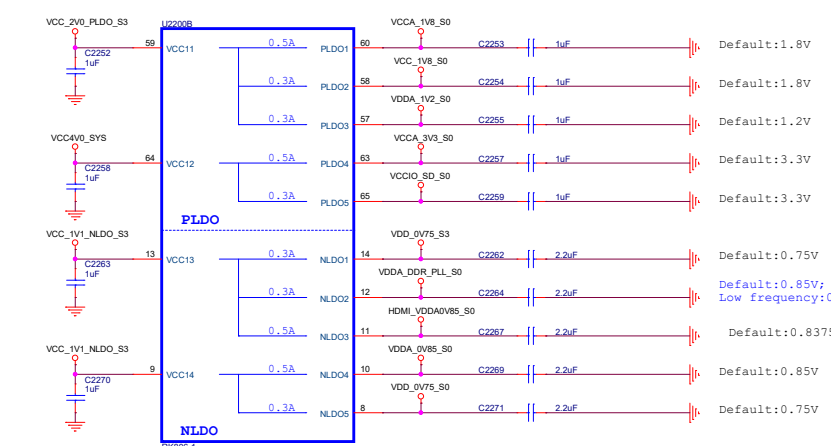
PMIC RK806-1 BUCK



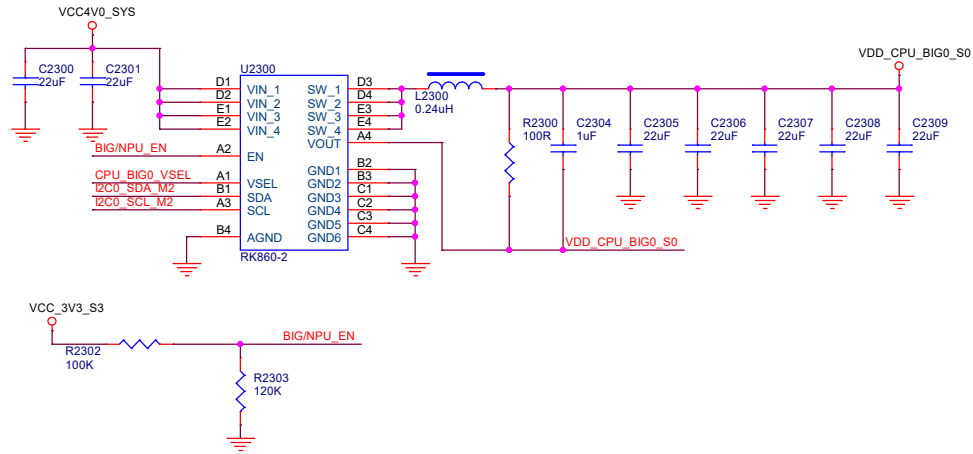
PMIC RK806-1 Managerment



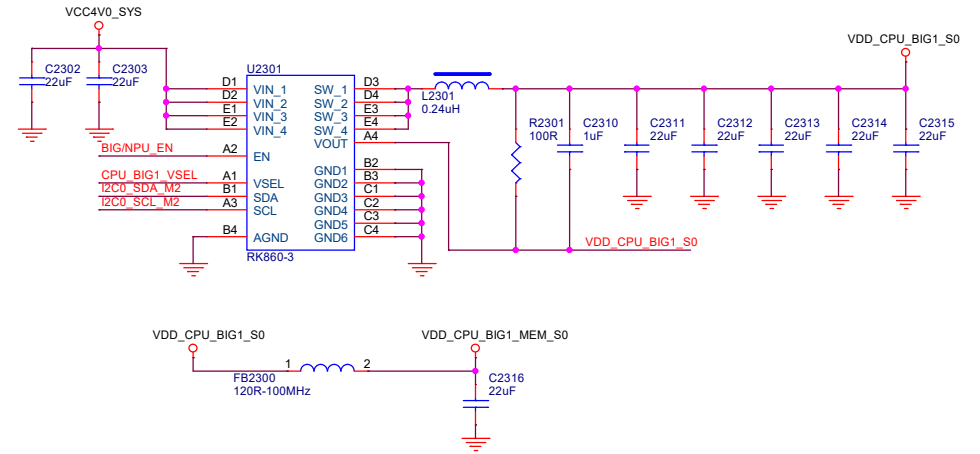
PMIC RK806-1 LDO



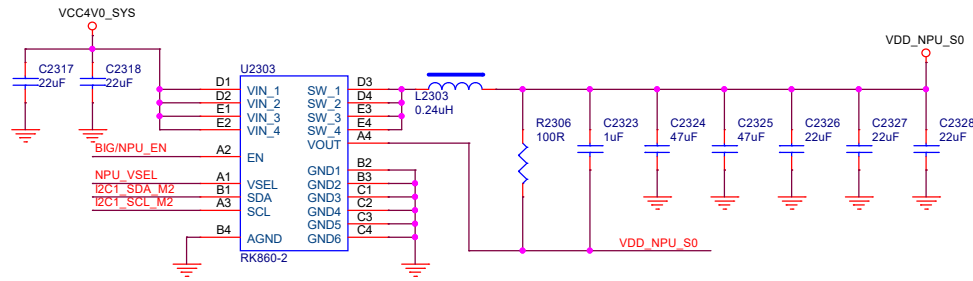
VDD_CPU_BIG0



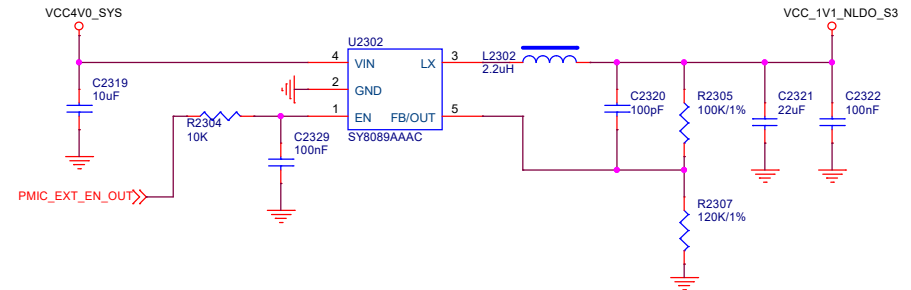
VDD_CPU_BIG1



VDD_NPU



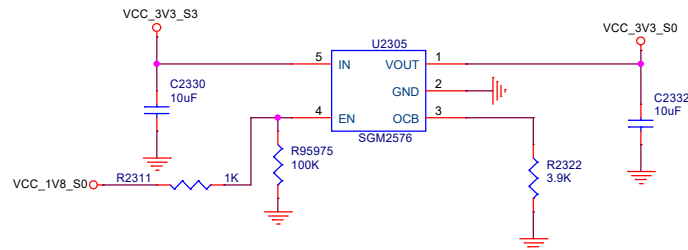
VCC_1V1_NLDO_S3



>>>X2C1_SCL_M2
<<<X2C1_SDA_M2

>>>X2C0_SCL_M2
<<<X2C0_SDA_M2

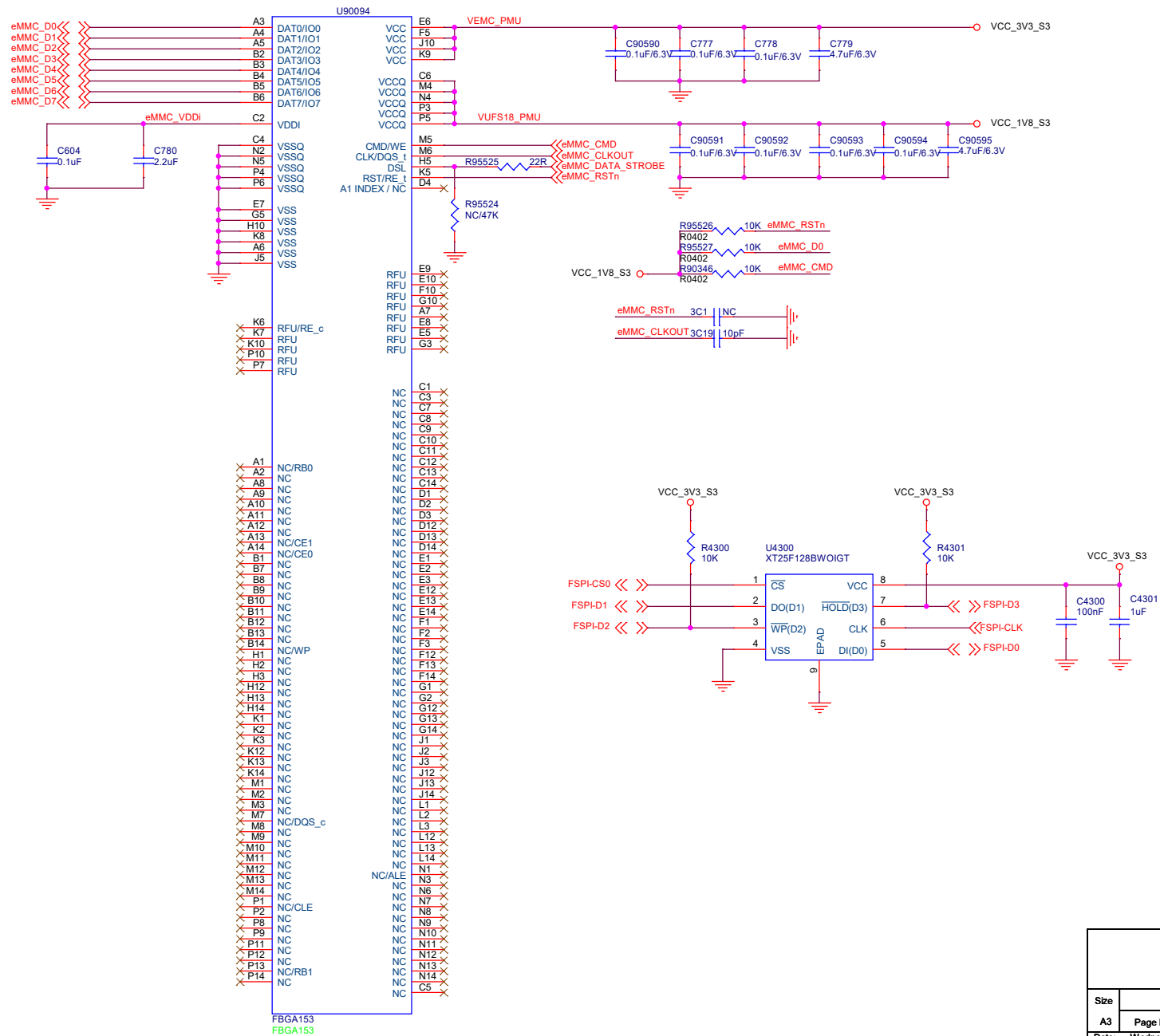
>>>CPU_BIG0_VSEL
>>>CPU_BIG1_VSEL
>>>NPU_VSEL



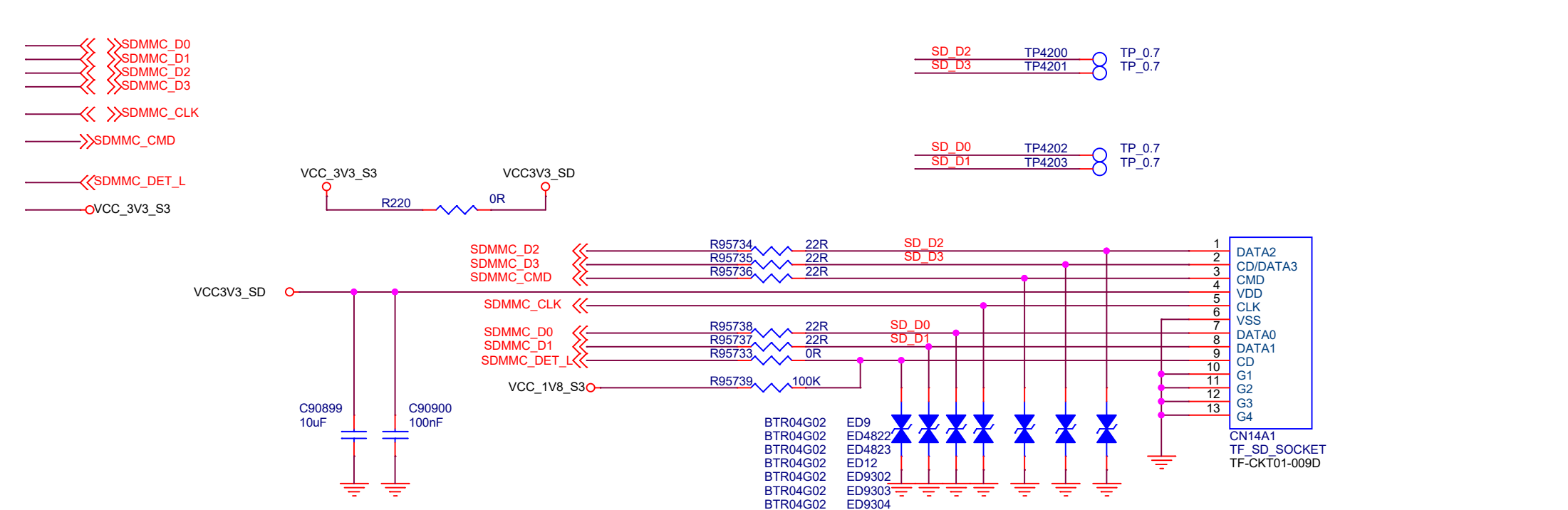
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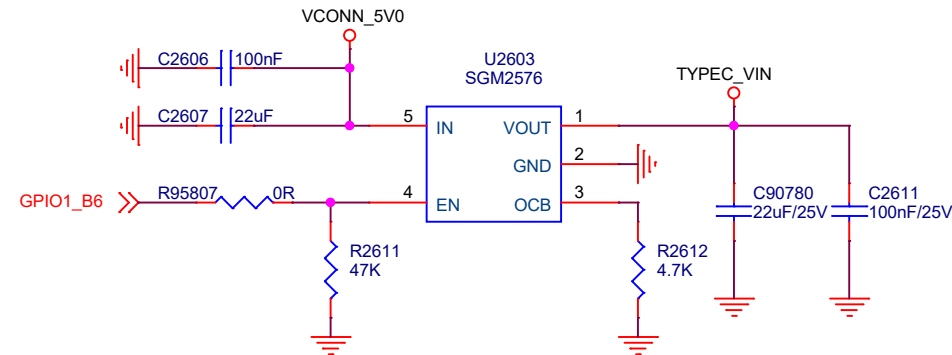
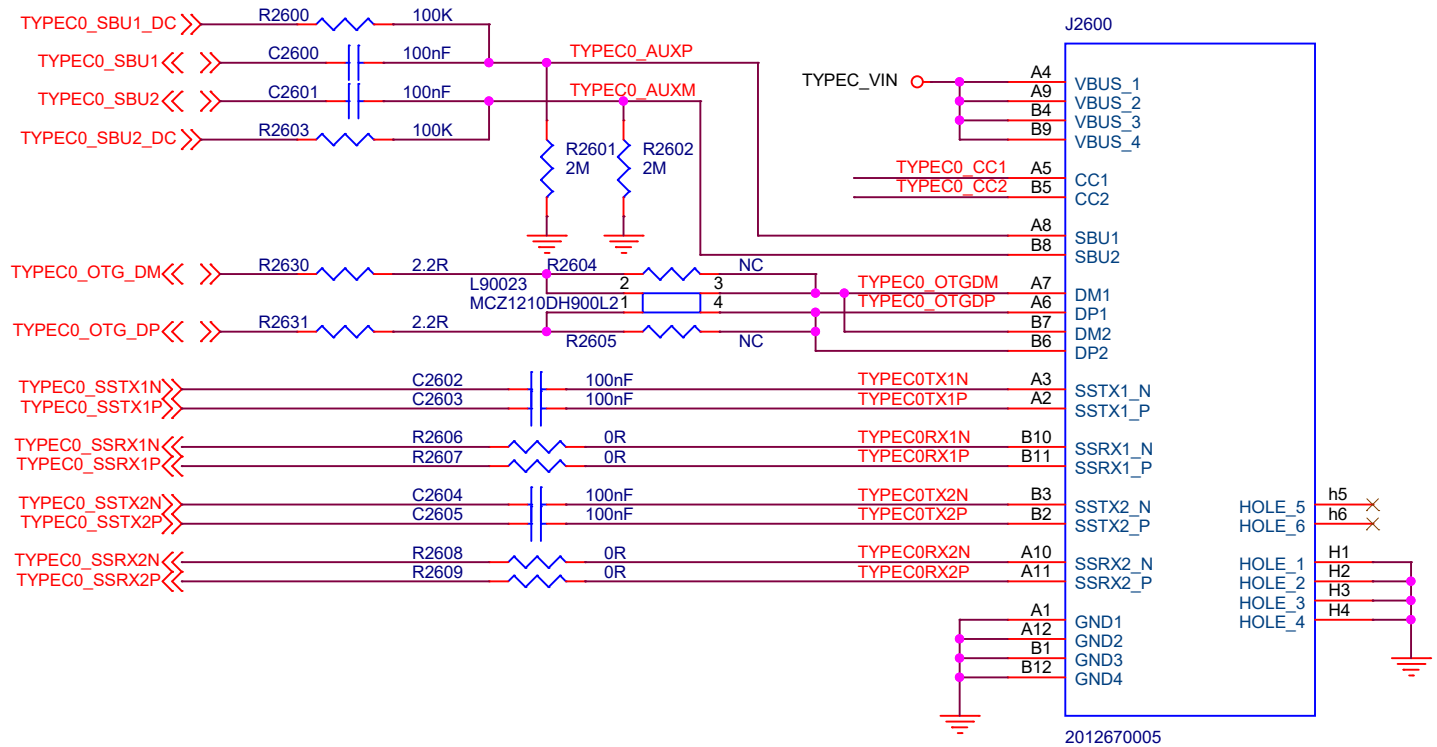
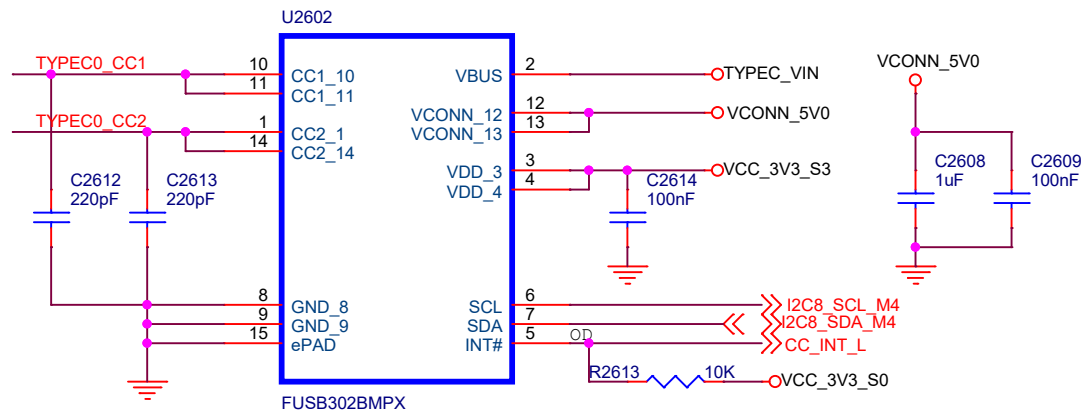
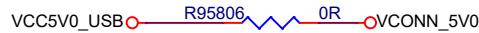
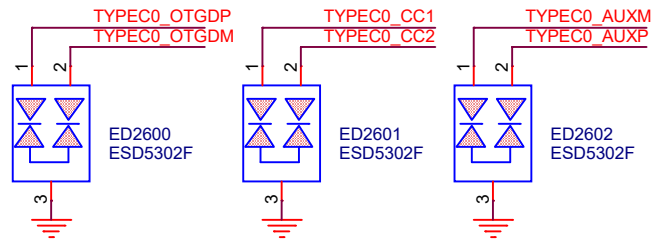
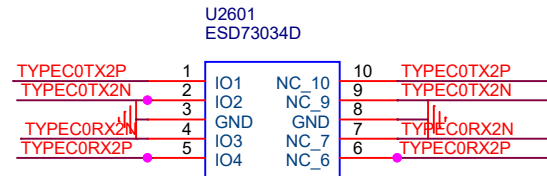
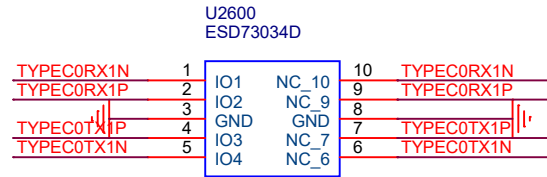
eMMC/FSPI FLASH



MicroSD Card



Type-C PORT

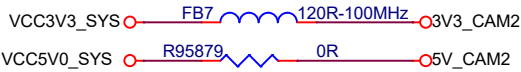
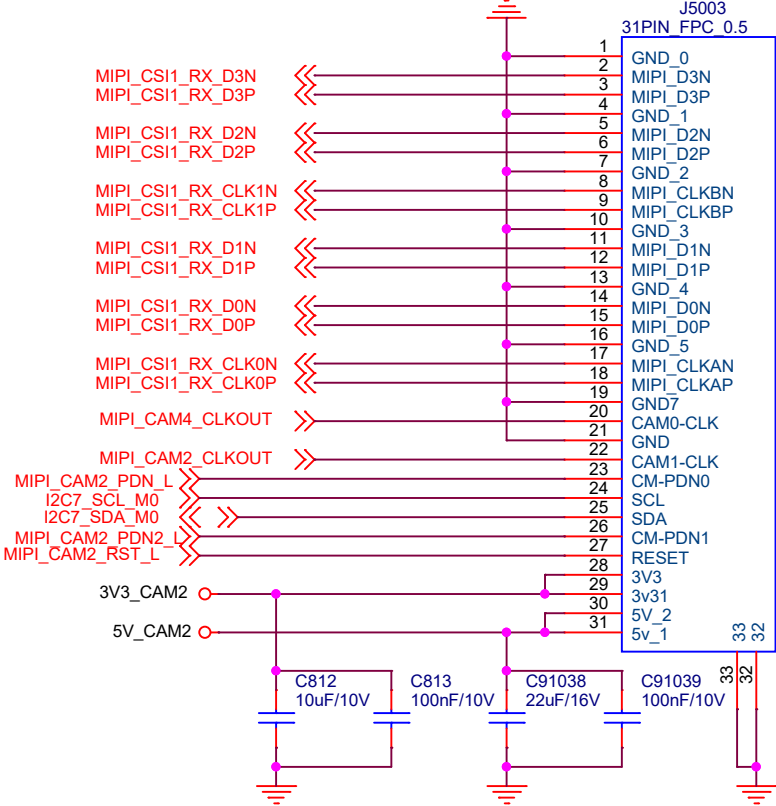
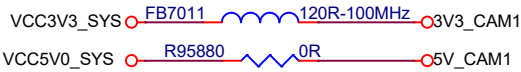
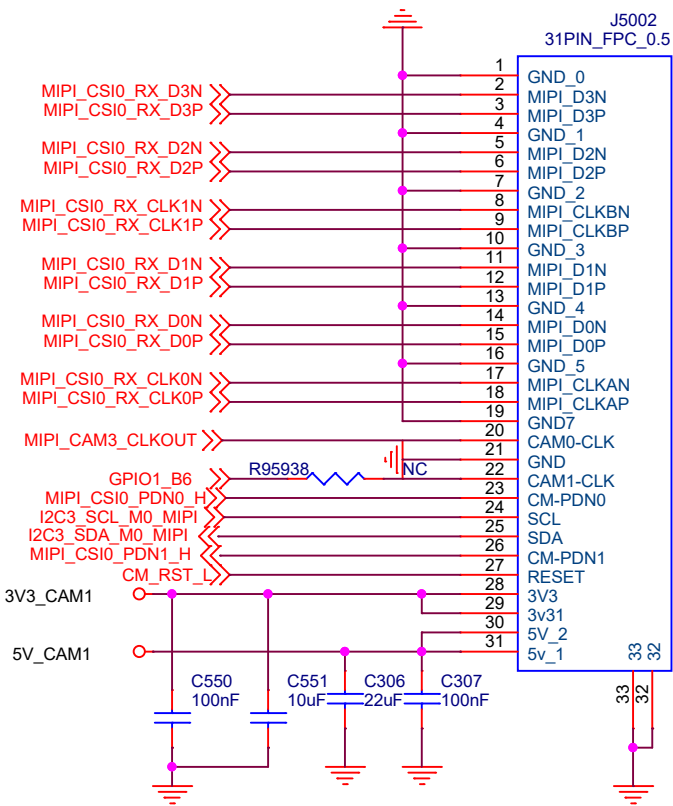


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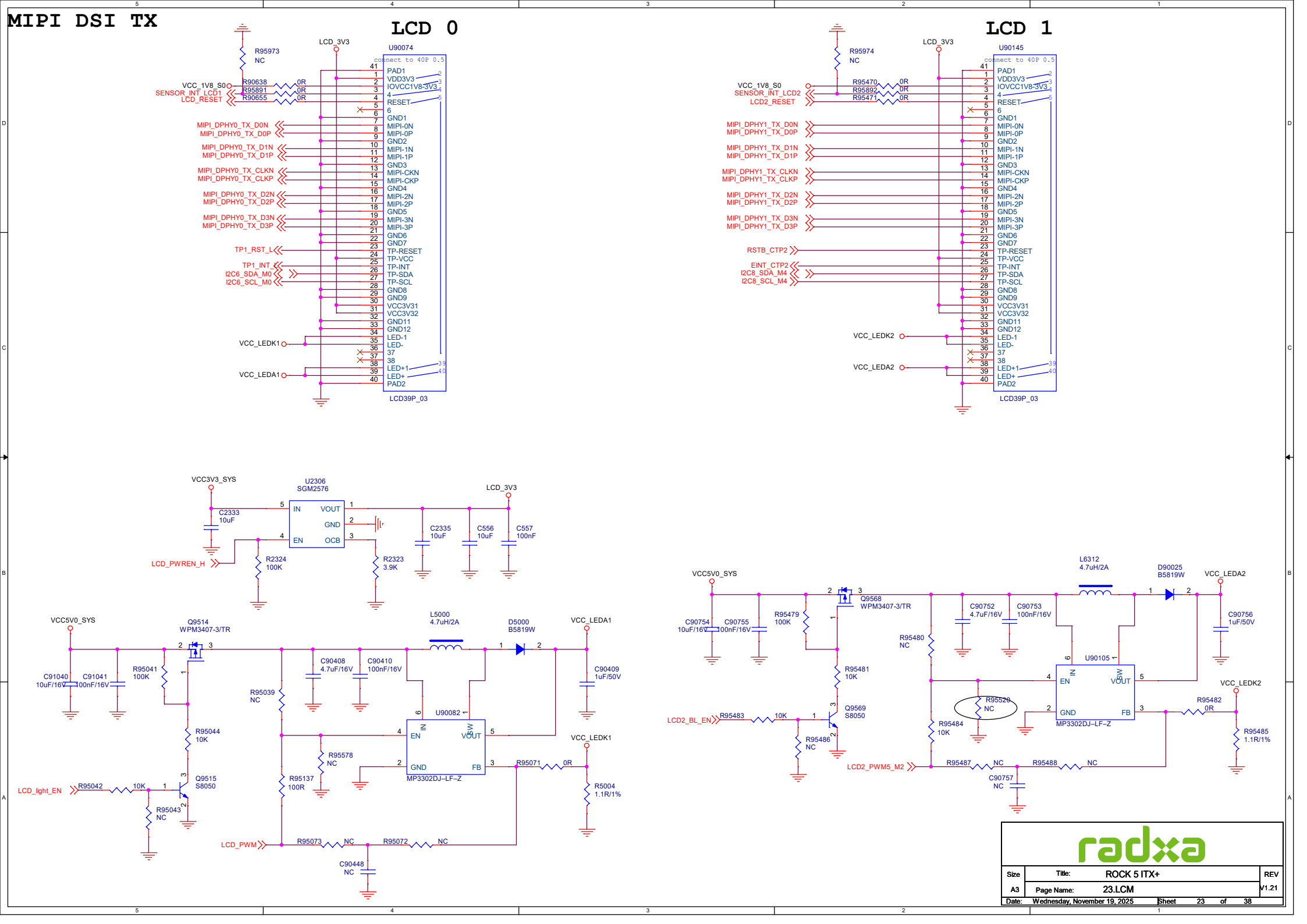
MIPI CSI RX

CAM 0

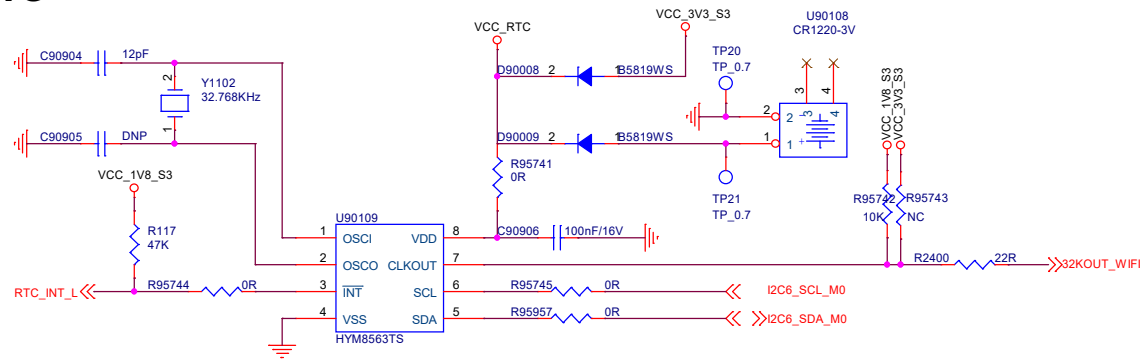
CAM 1



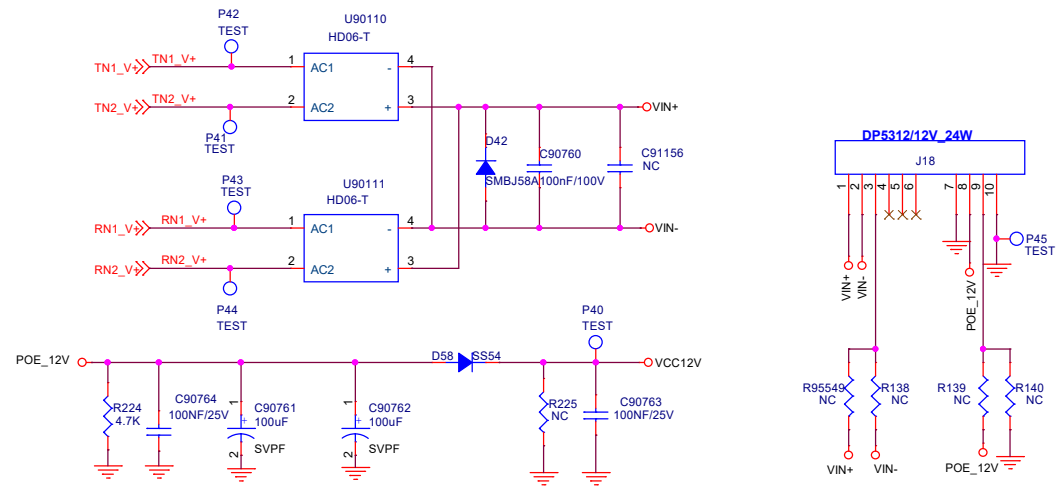
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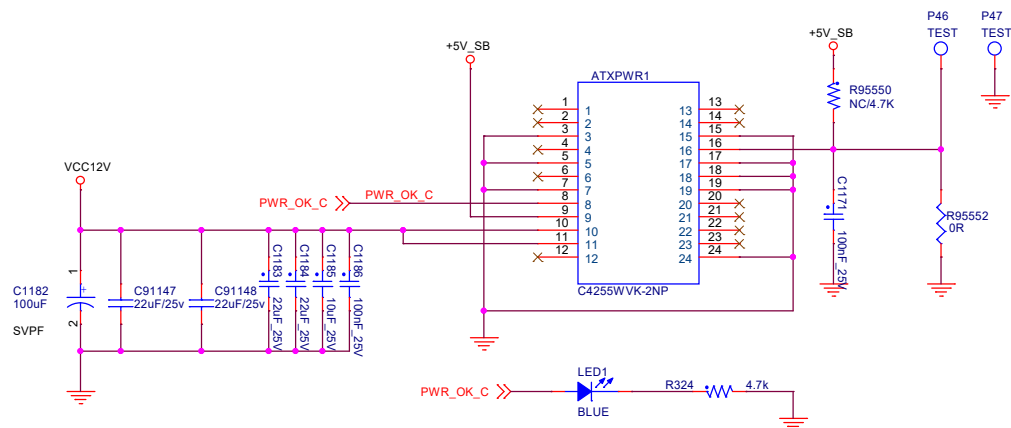
RTC



POE



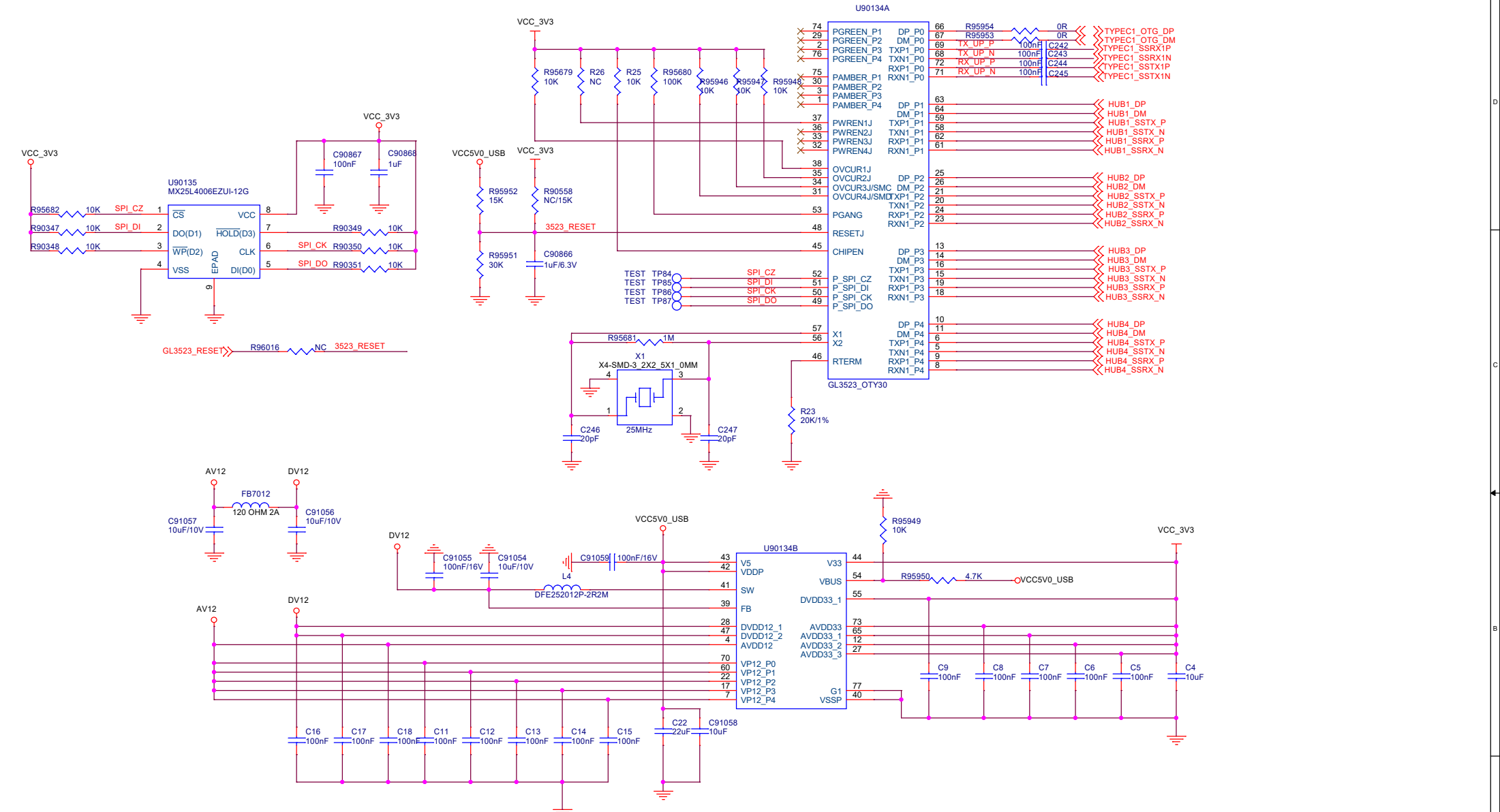
ATX_POWER



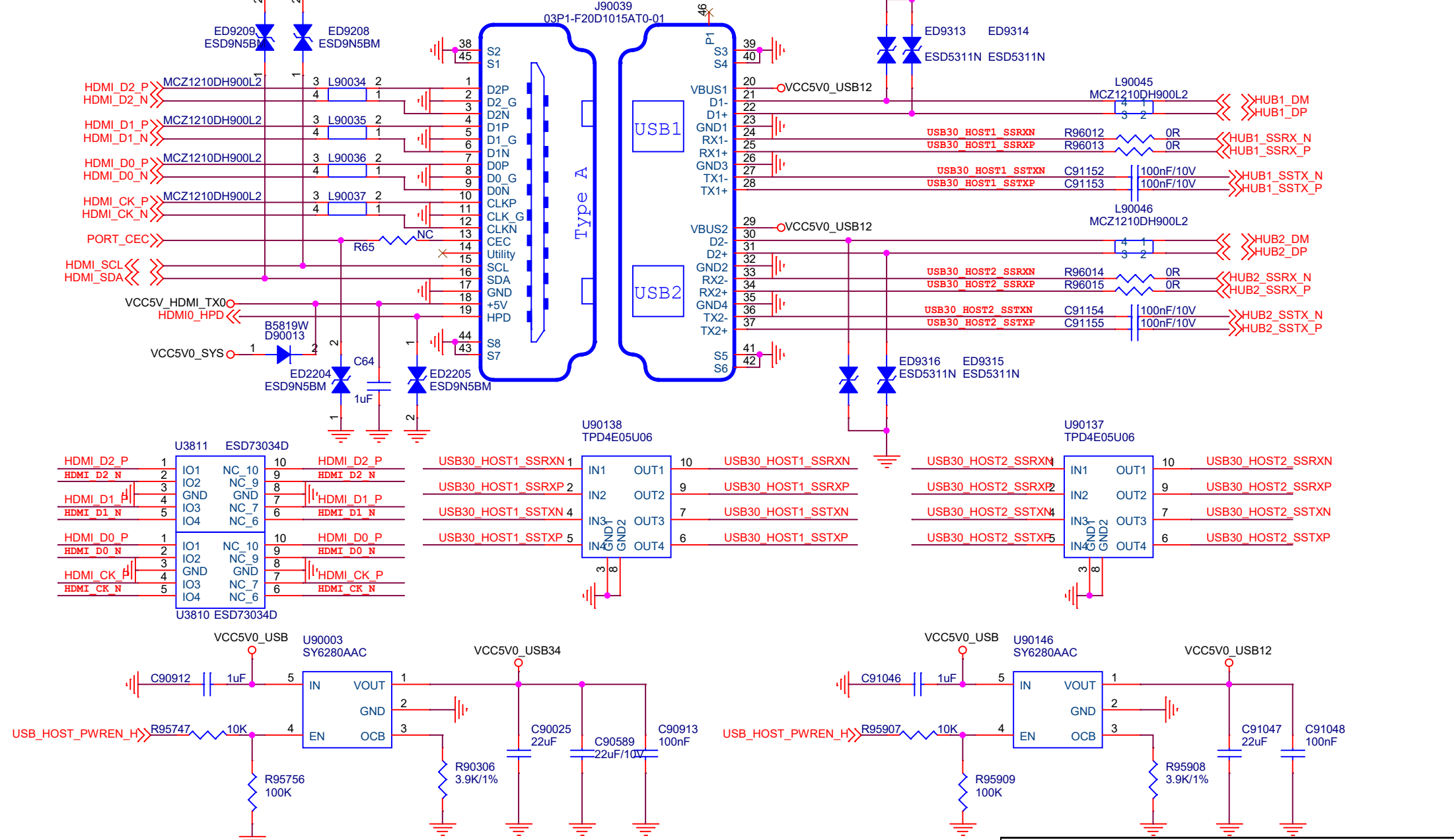
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USB3.0 HUB

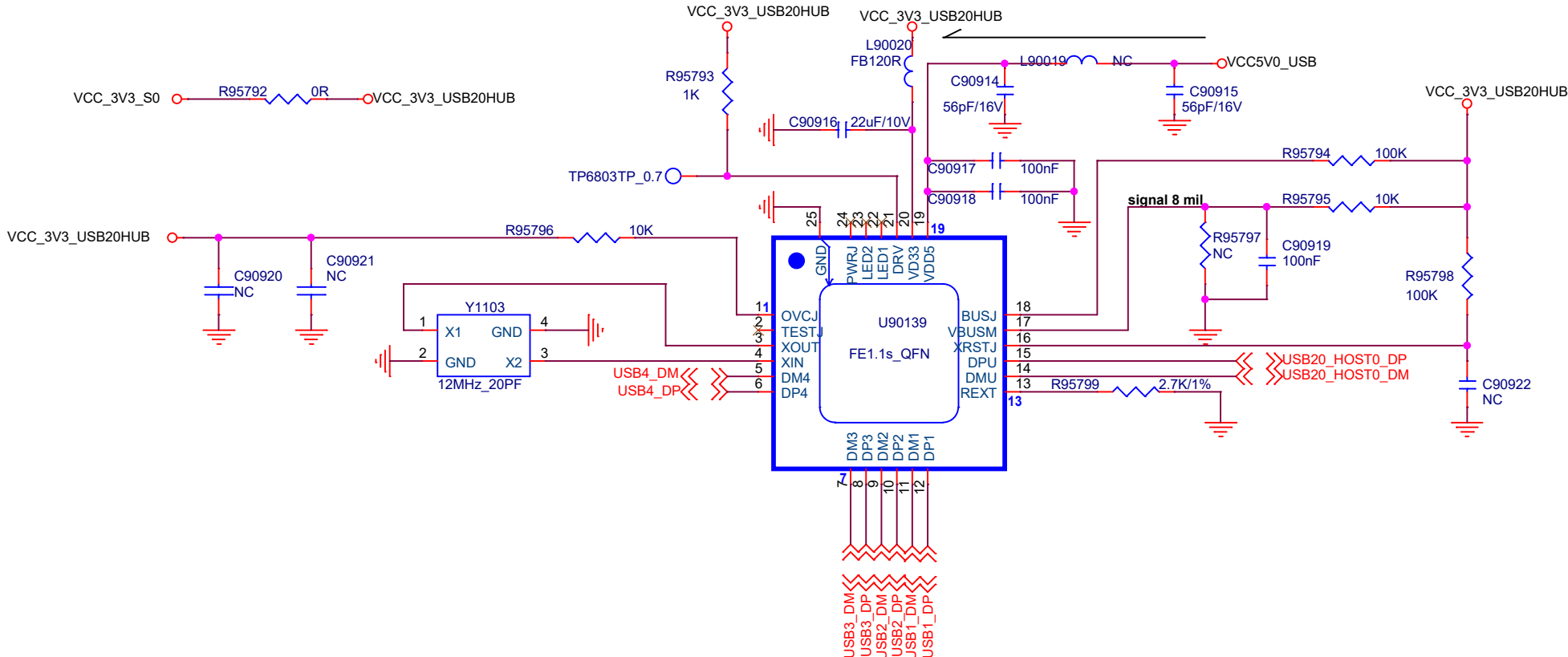


USB3.0+HDMI HDMI TX2 4K



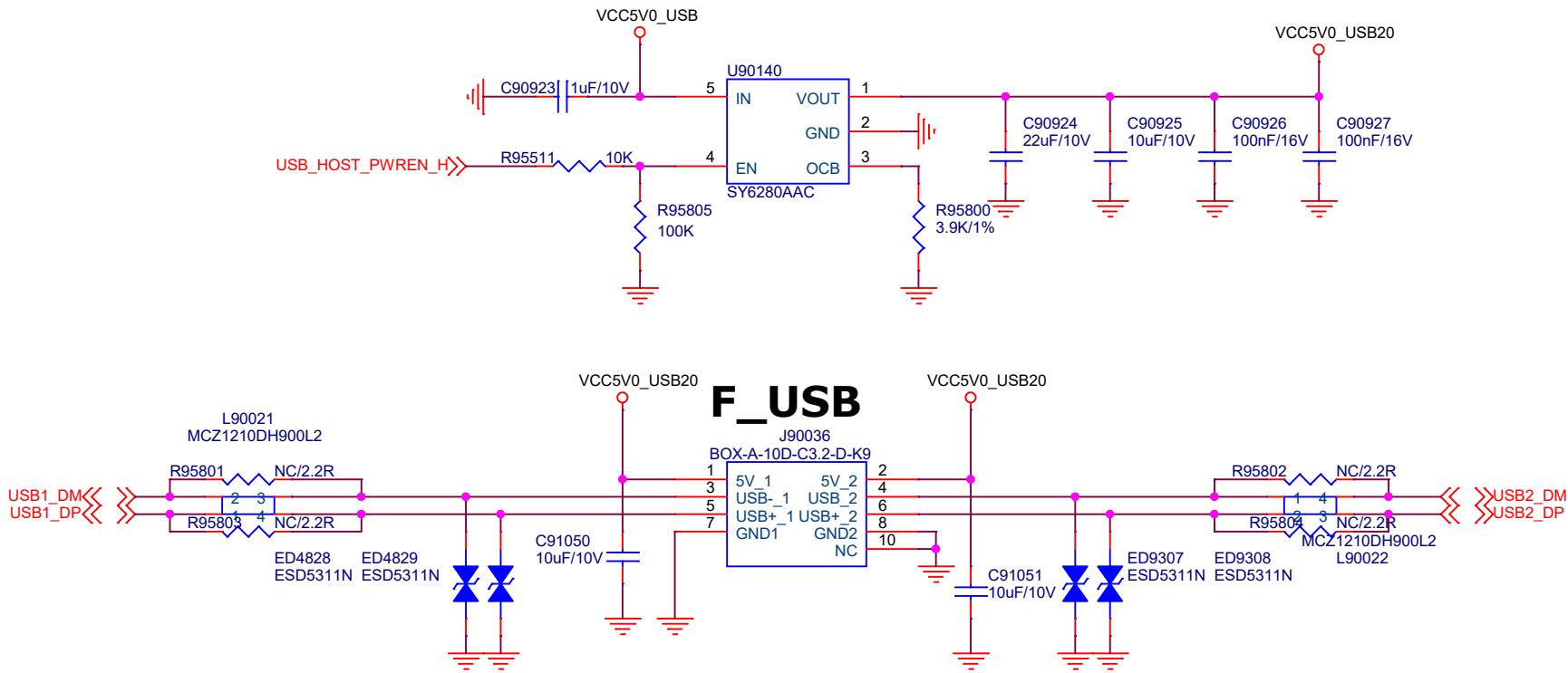
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USB2.0 HUB

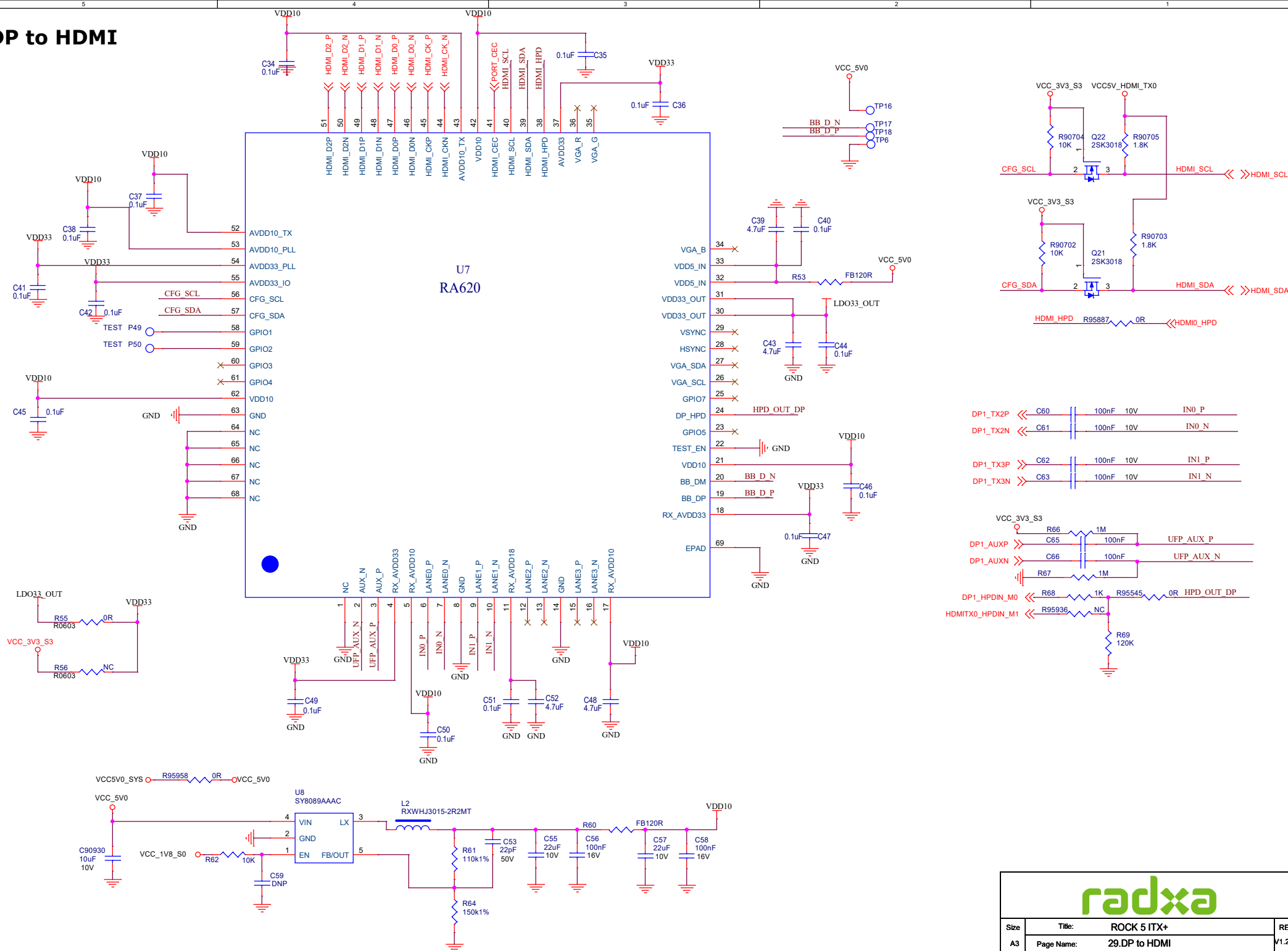


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USB 2.0

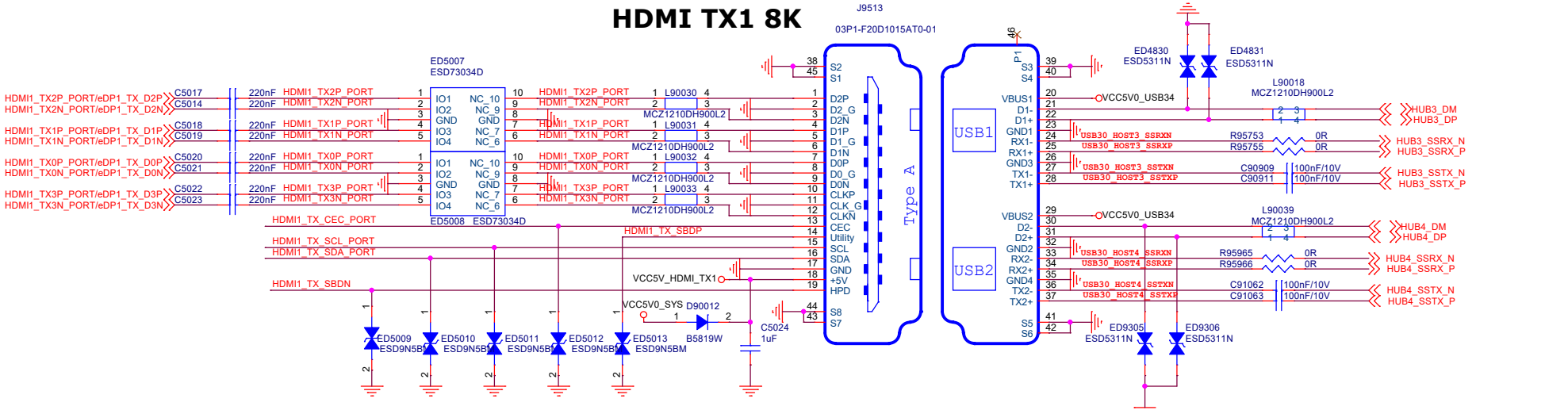


DP to HDMI

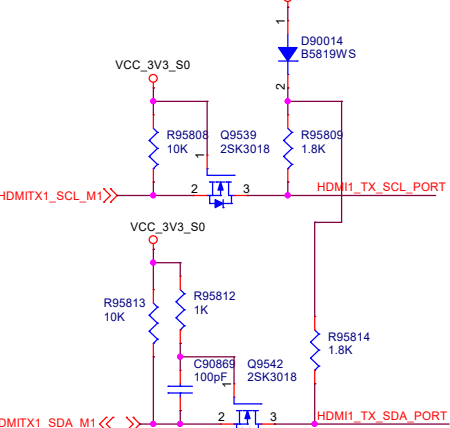


USB3.0+HDMI

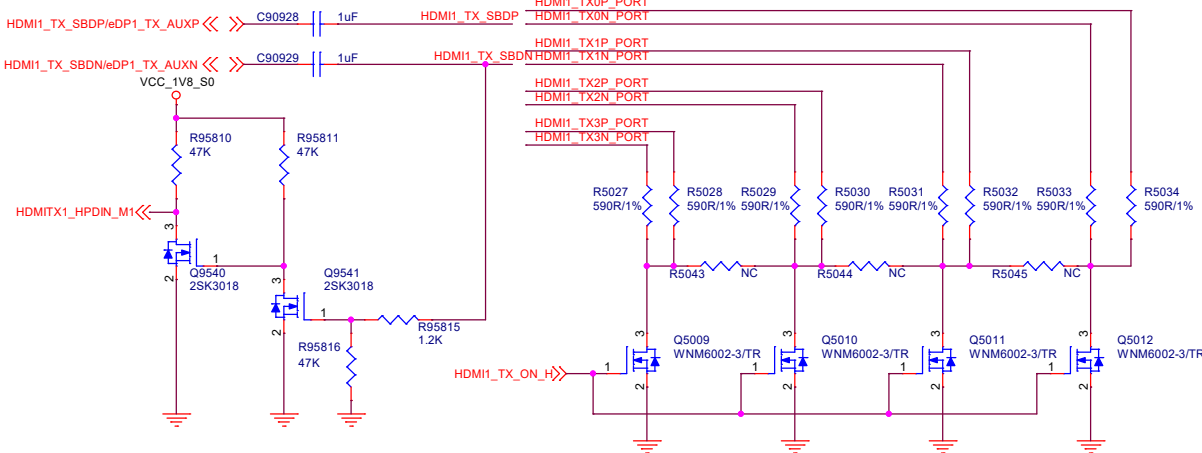
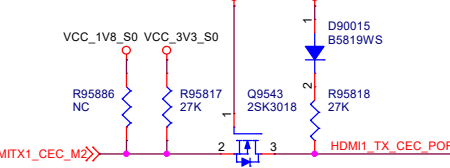
HDMI TX1 8K



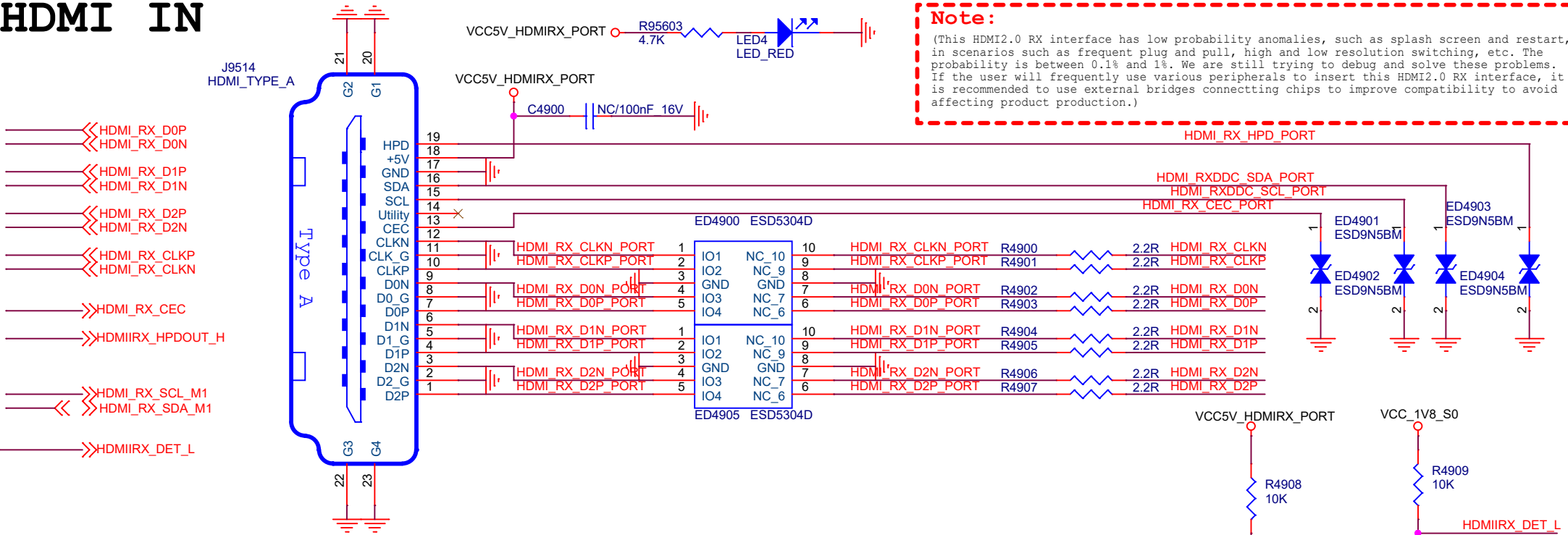
HDMI TX DDC



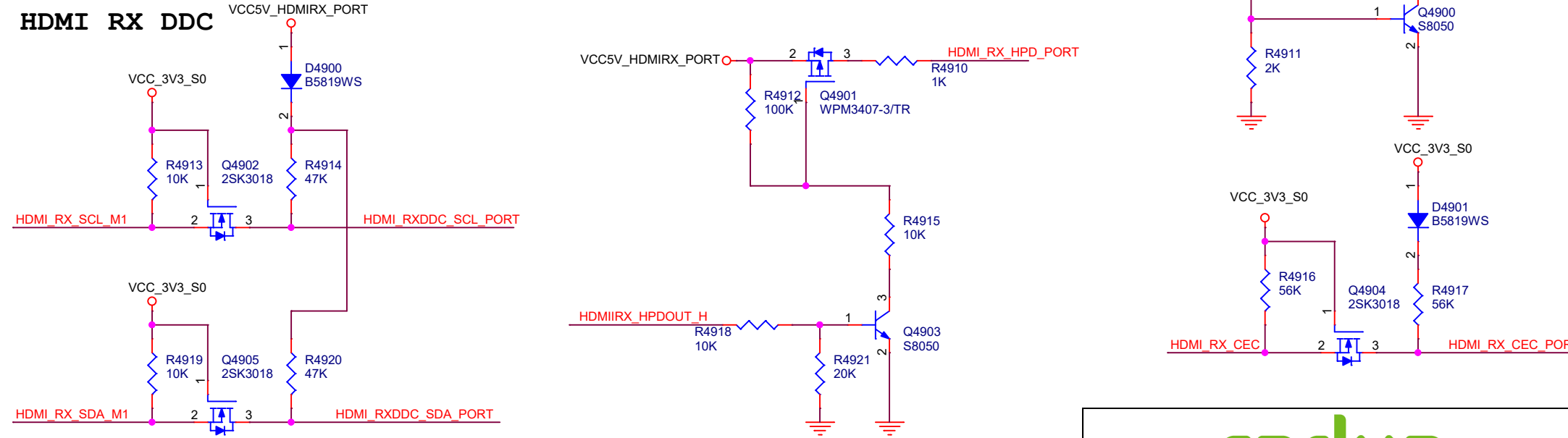
HDMI TX CEC

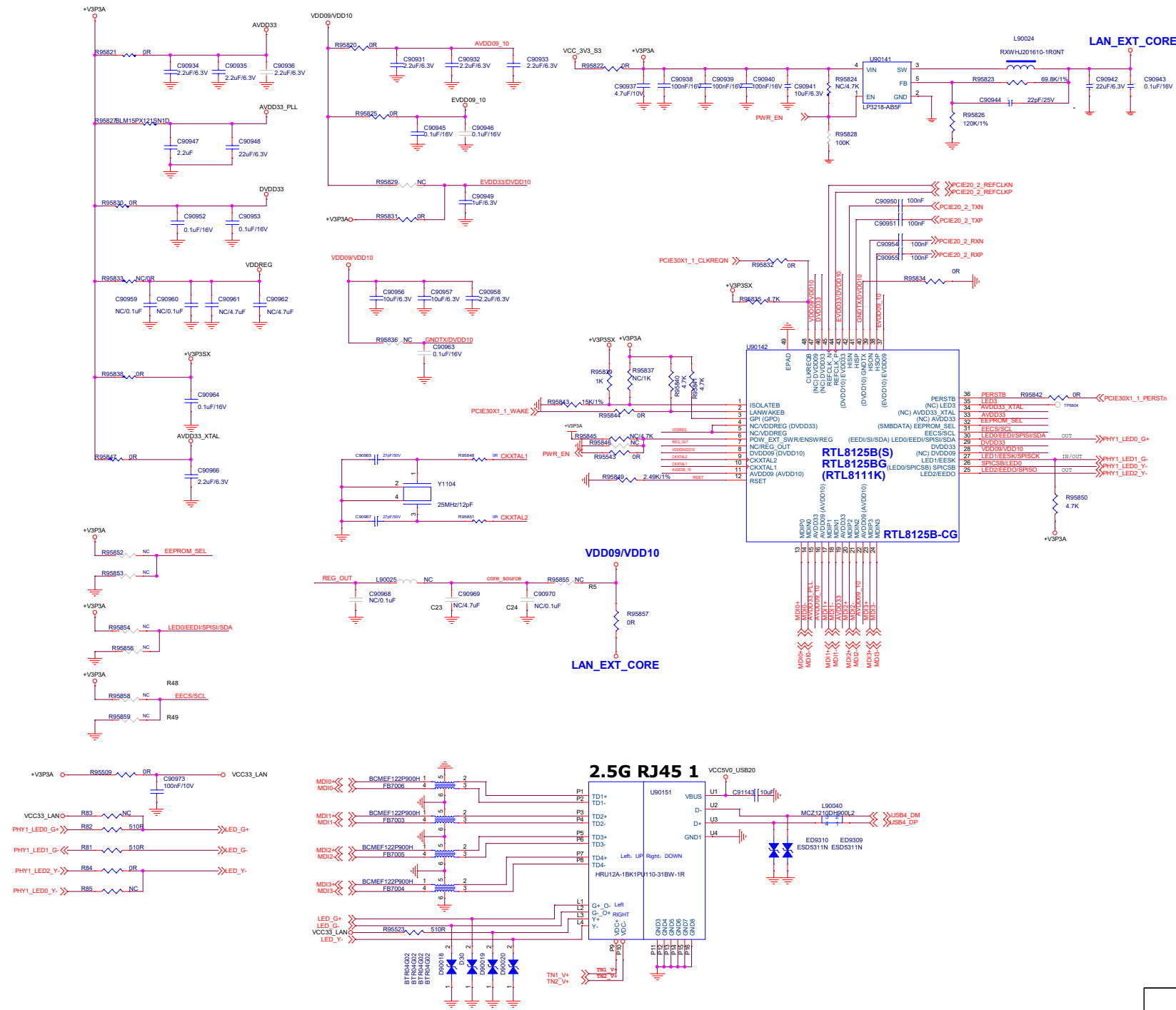


HDMI IN

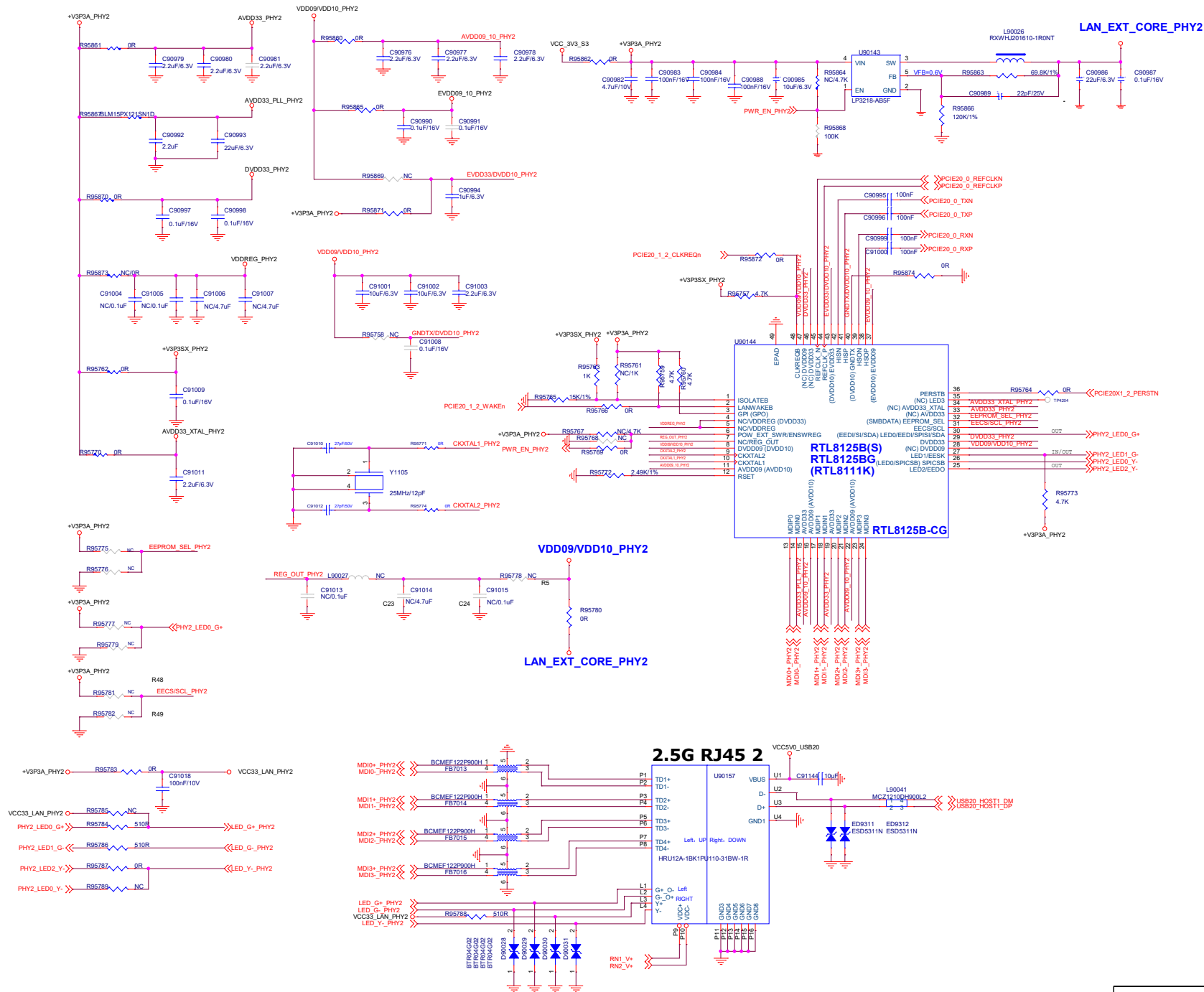


HDMI RX DDC





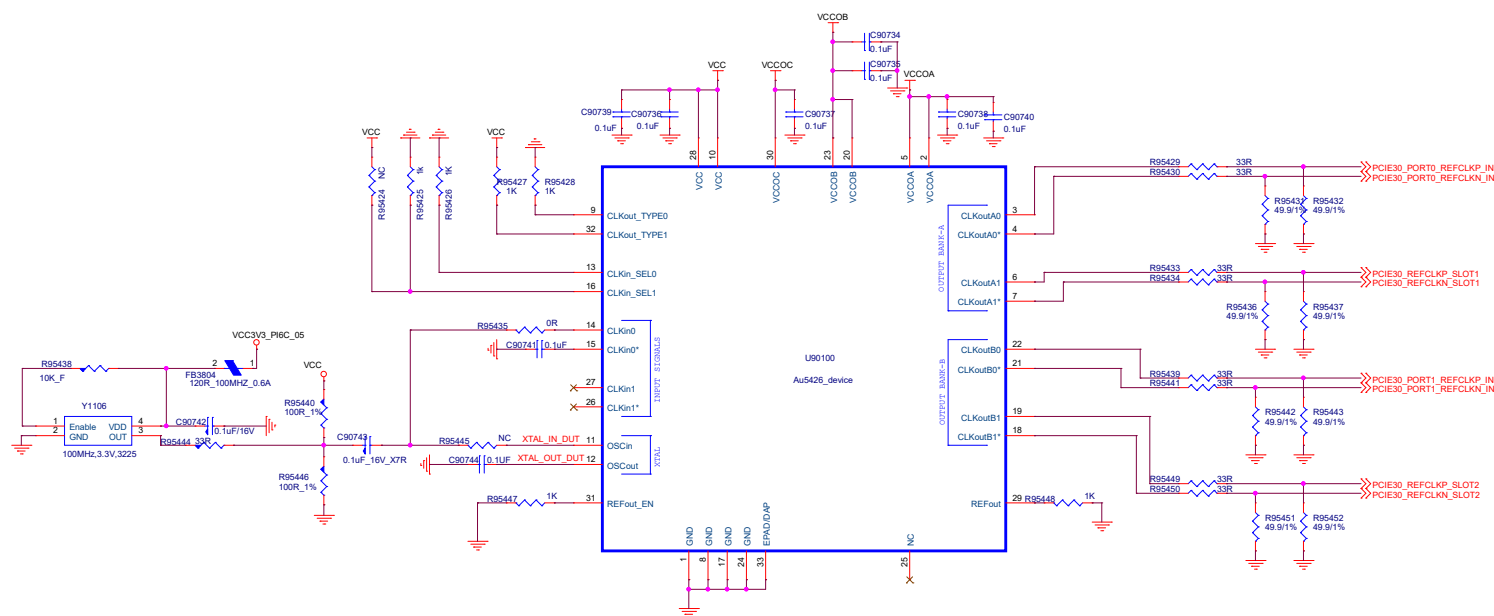
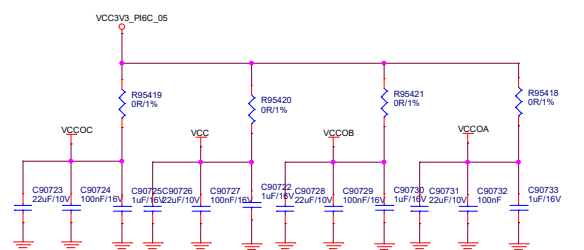
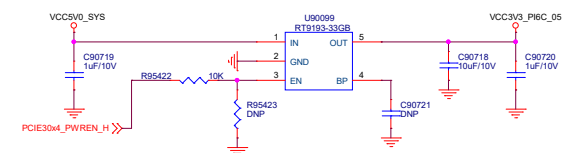
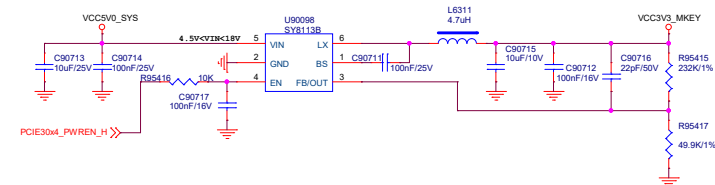
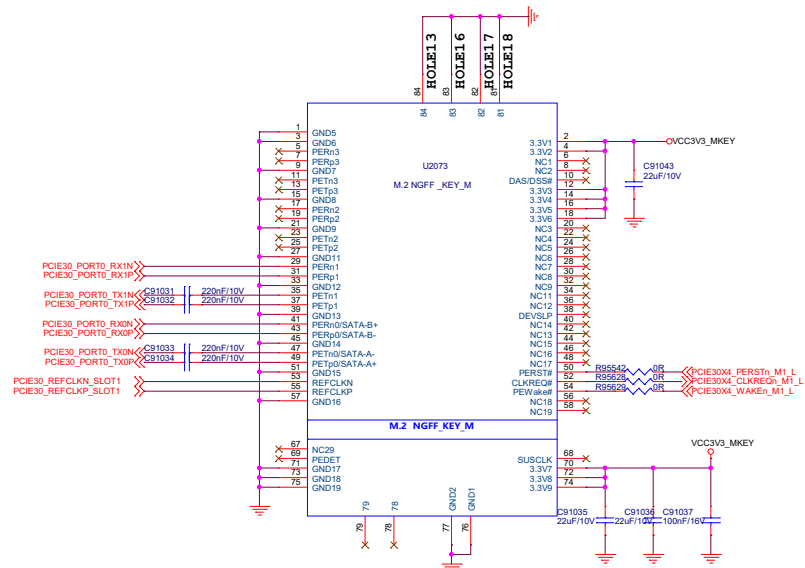
ETH2+USB 2.0



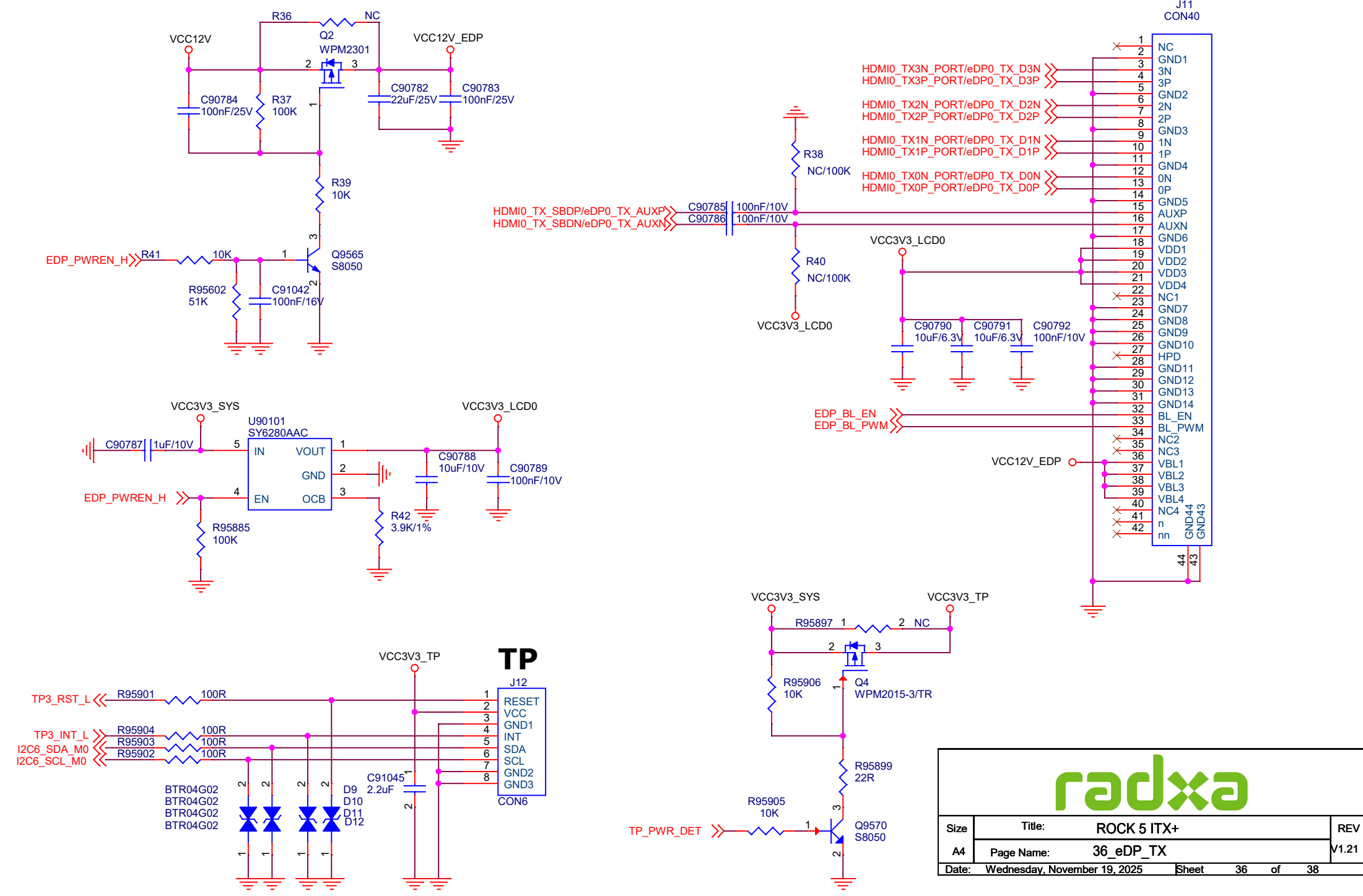


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5
PCIE-PCIE3.0 Slot-Mkey



Single-eDP LCM





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