

P3768-A04

Jetson Orin NX Carrier Board

(Base Version)


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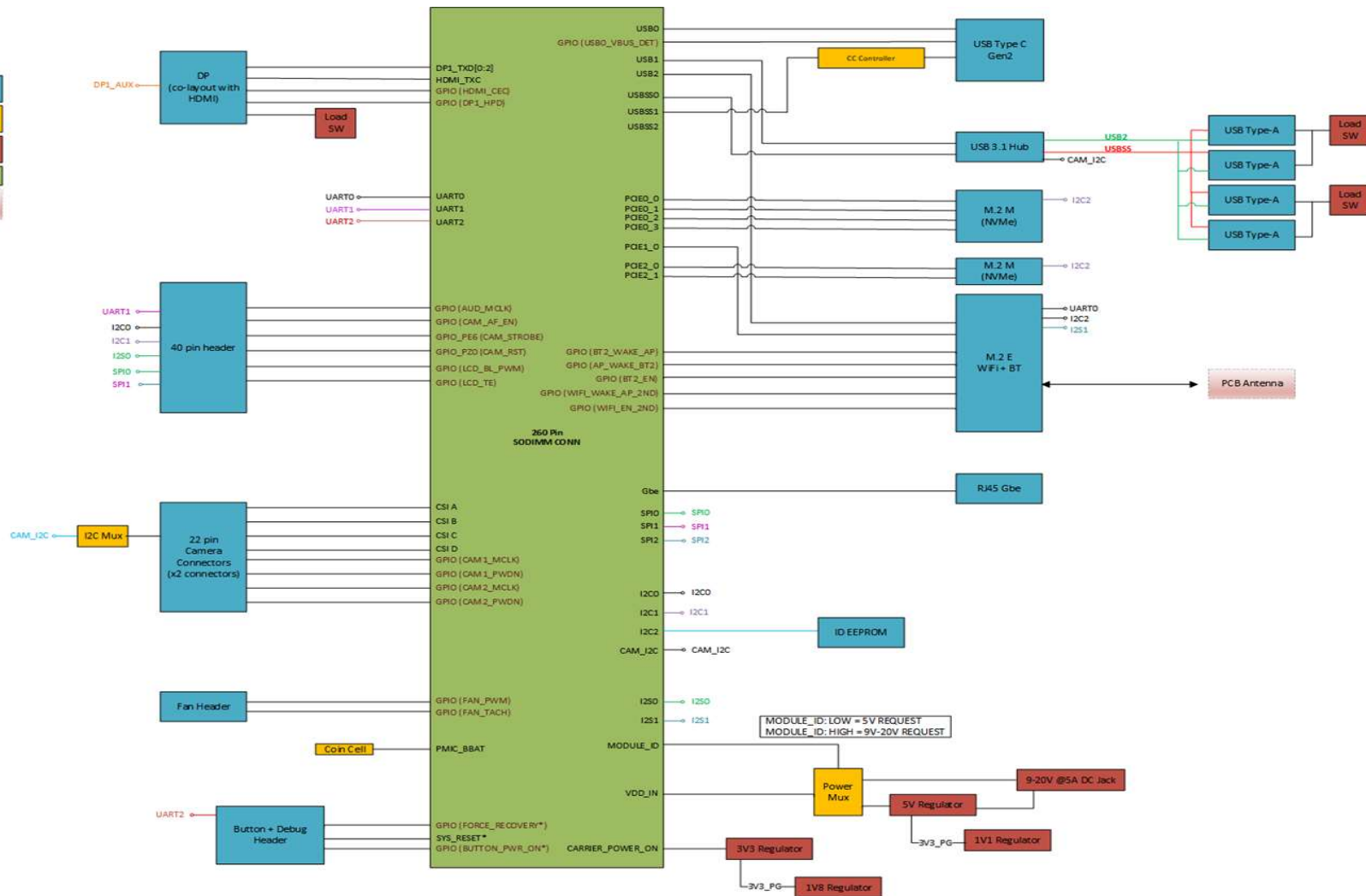
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Map Legend:



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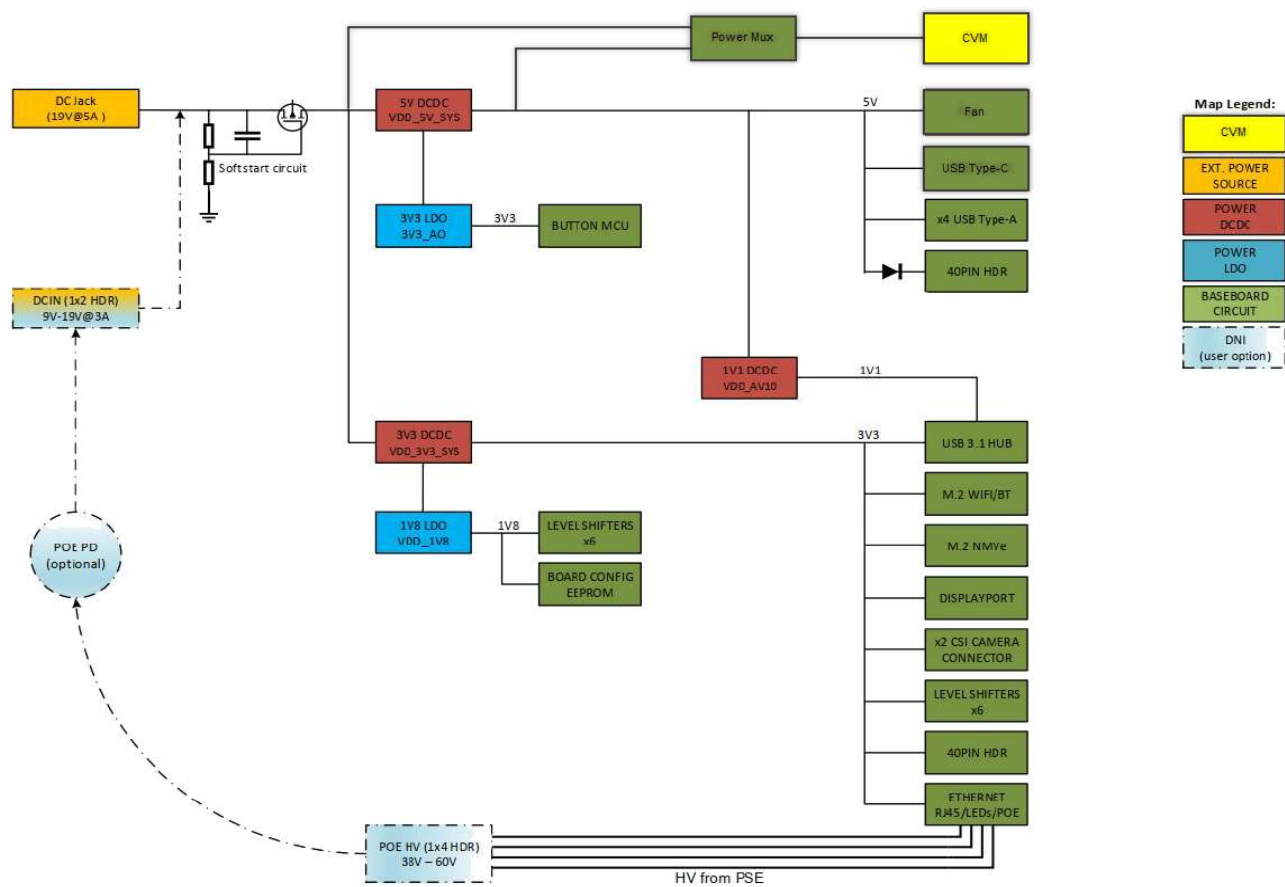


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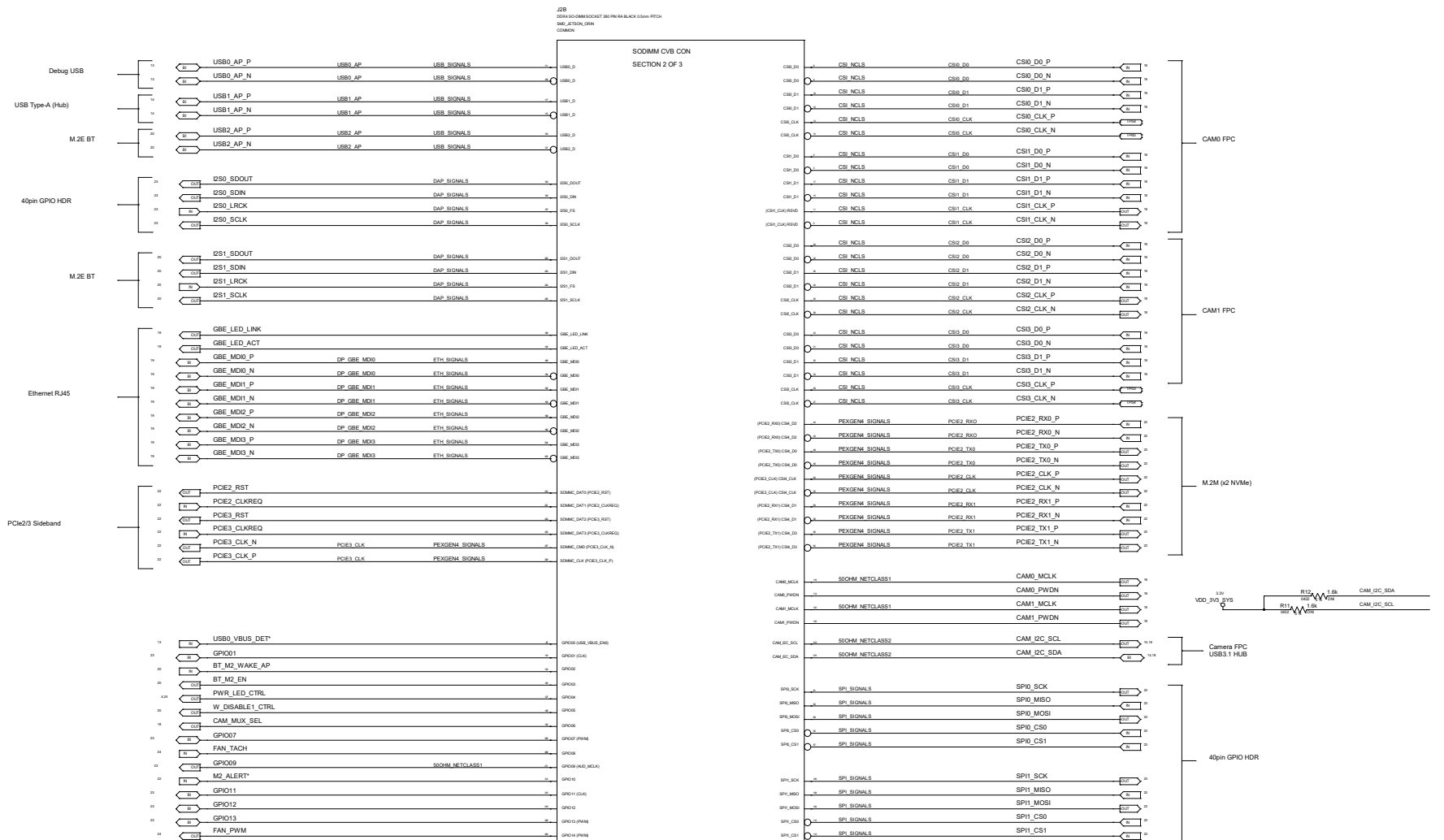
Power Topology




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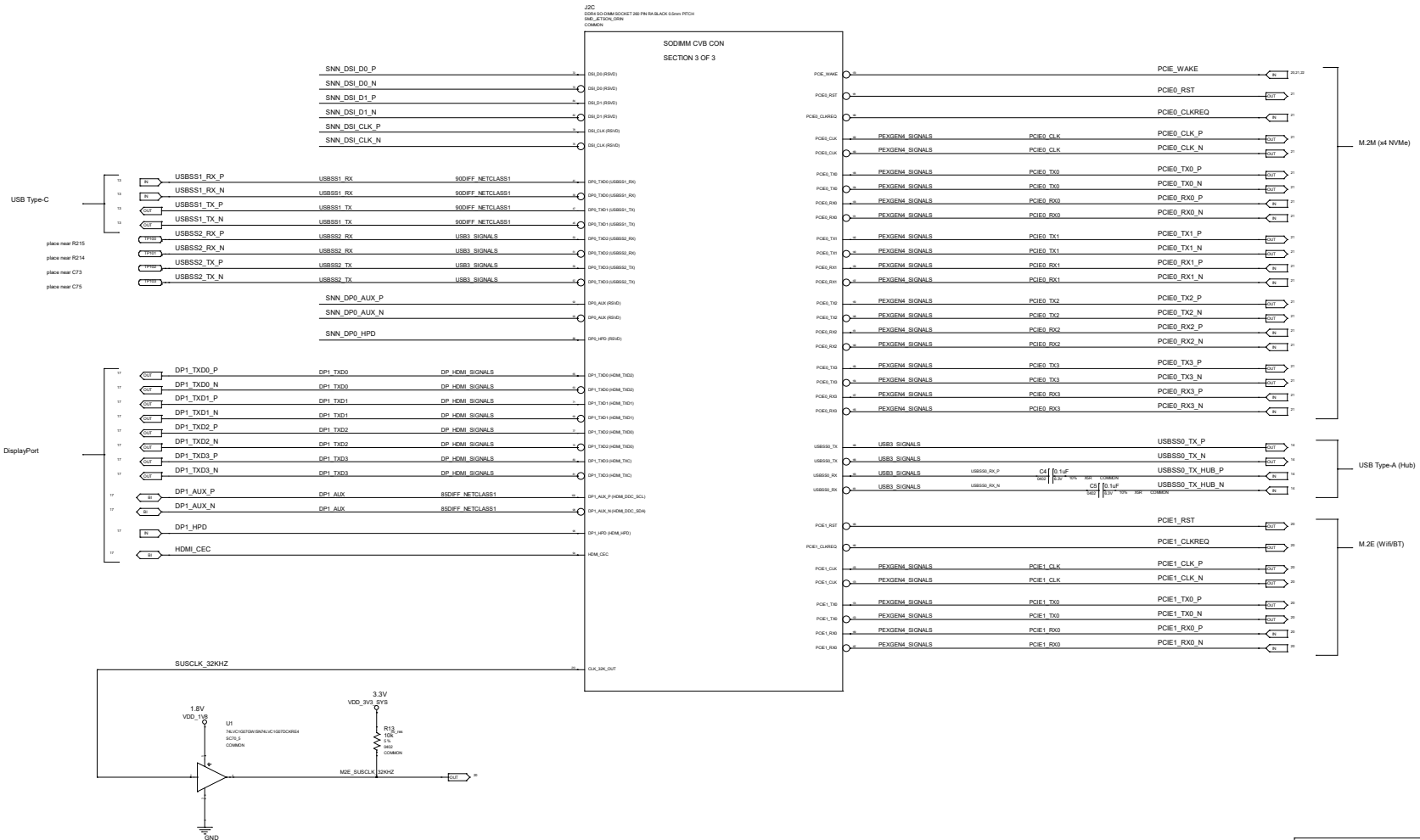
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GPIOs, USB2.0, I2S, SPI, GBe and CSI



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DP, USBSS and PEX



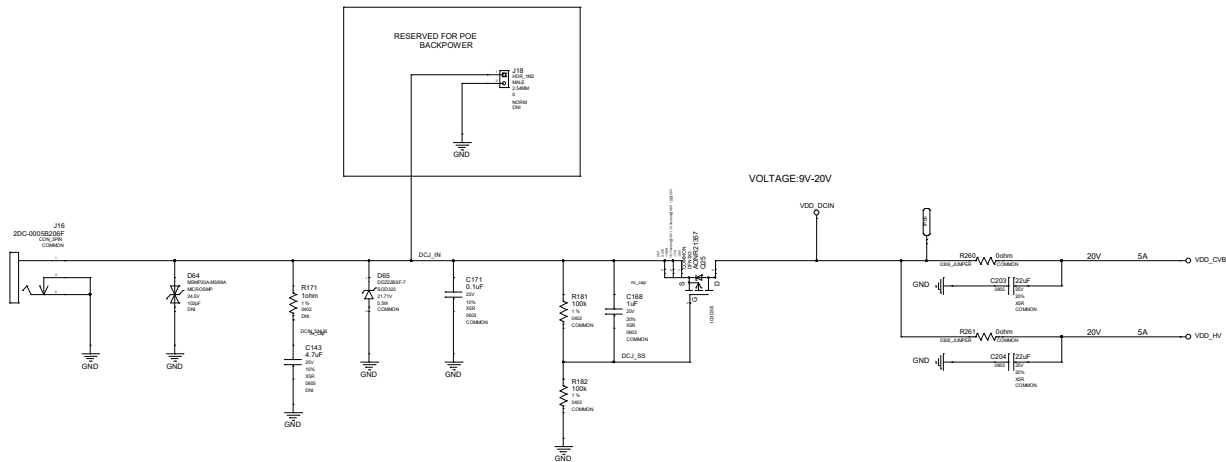
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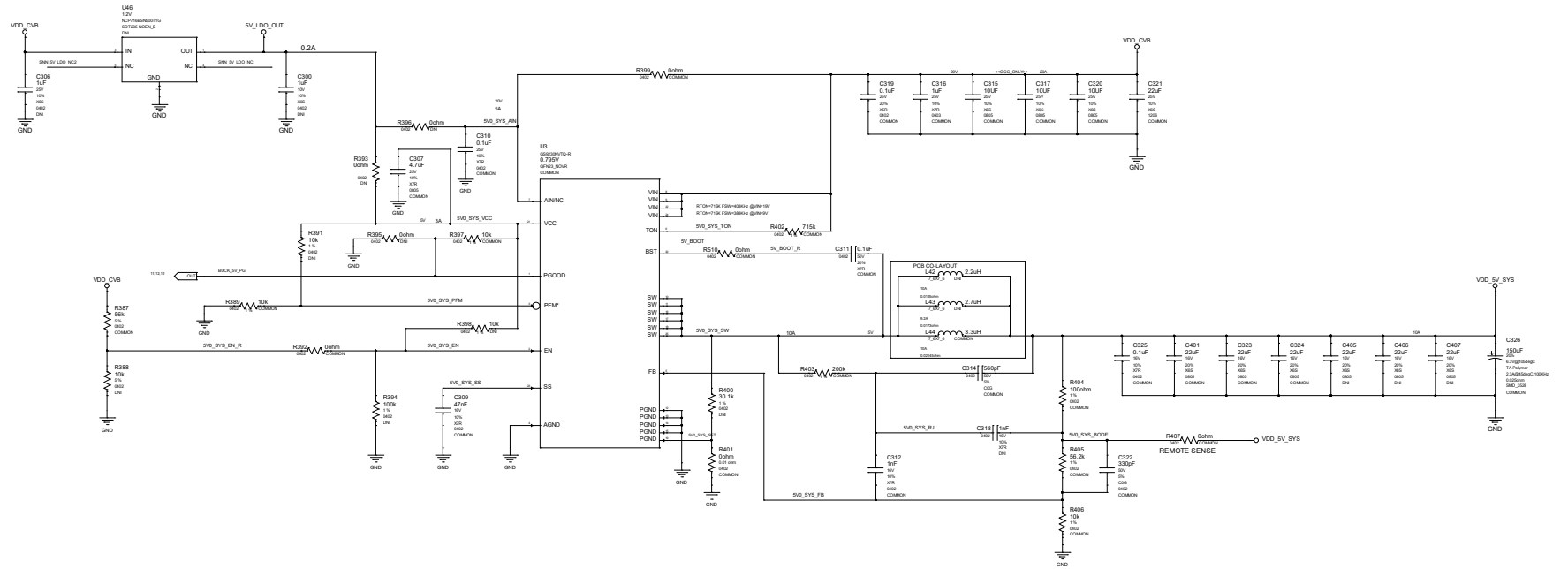
DC JACK POWER PATH



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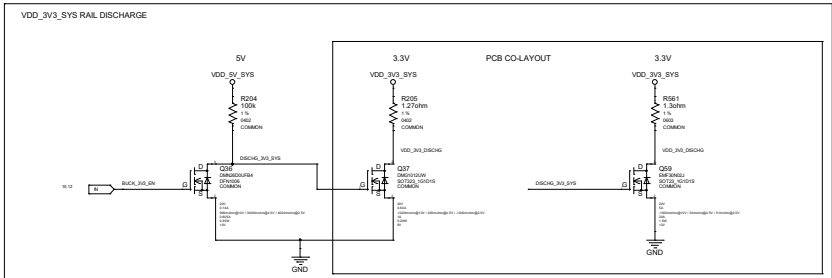
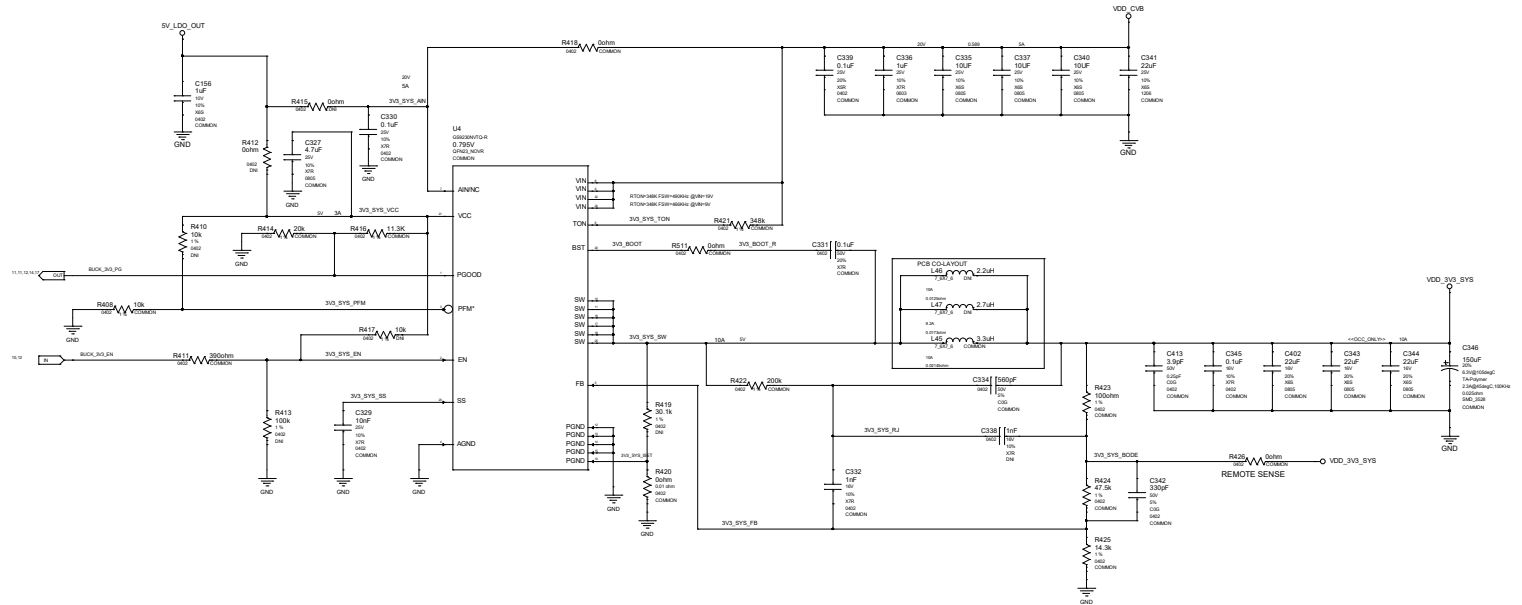
PRE-REG 5V DCDC



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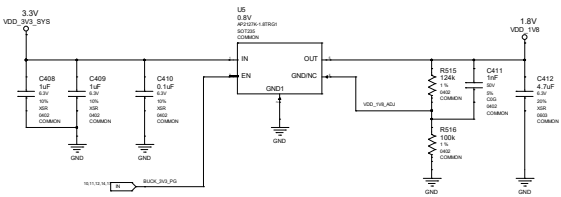
PRE-REG 3V3 DCDC



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1V8 LDO AND 3V3 AO RAILS

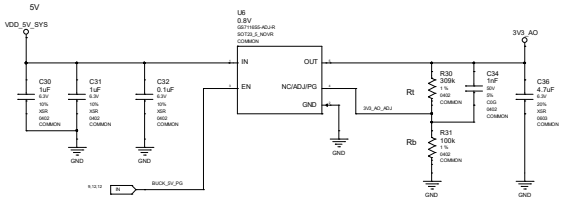
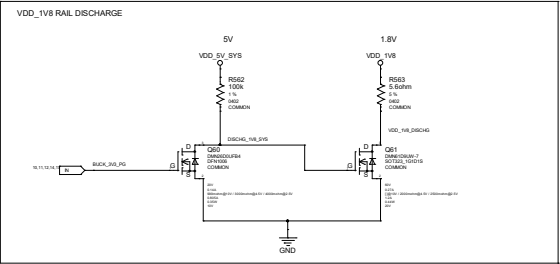


$$VOUT = VREF(0.8V) \cdot (1 + (RT/RB)) + I_{AD} (1nA) \cdot RT$$

$$RT = 124k$$

$$RB = 100k$$

$$VOUT = 1.792V$$



$$VOUT = VREF(0.8V) \cdot (1 + (RT/RB)) + I_{AD} (1nA) \cdot RT$$

$$RT = 300k$$

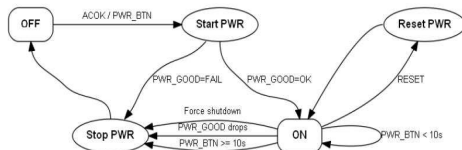
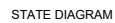
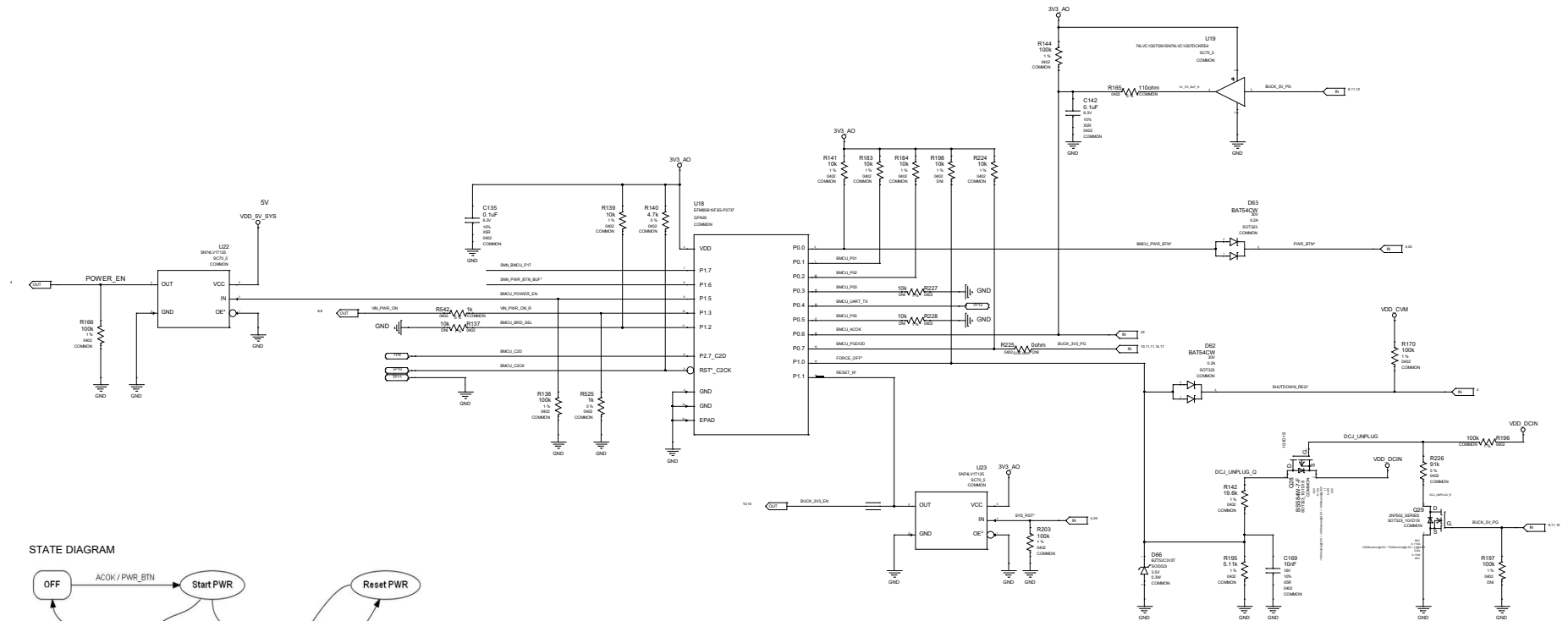
$$RB = 100k$$

$$VOUT = 3.272V$$

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BUTTON MCU FOR POWER UP



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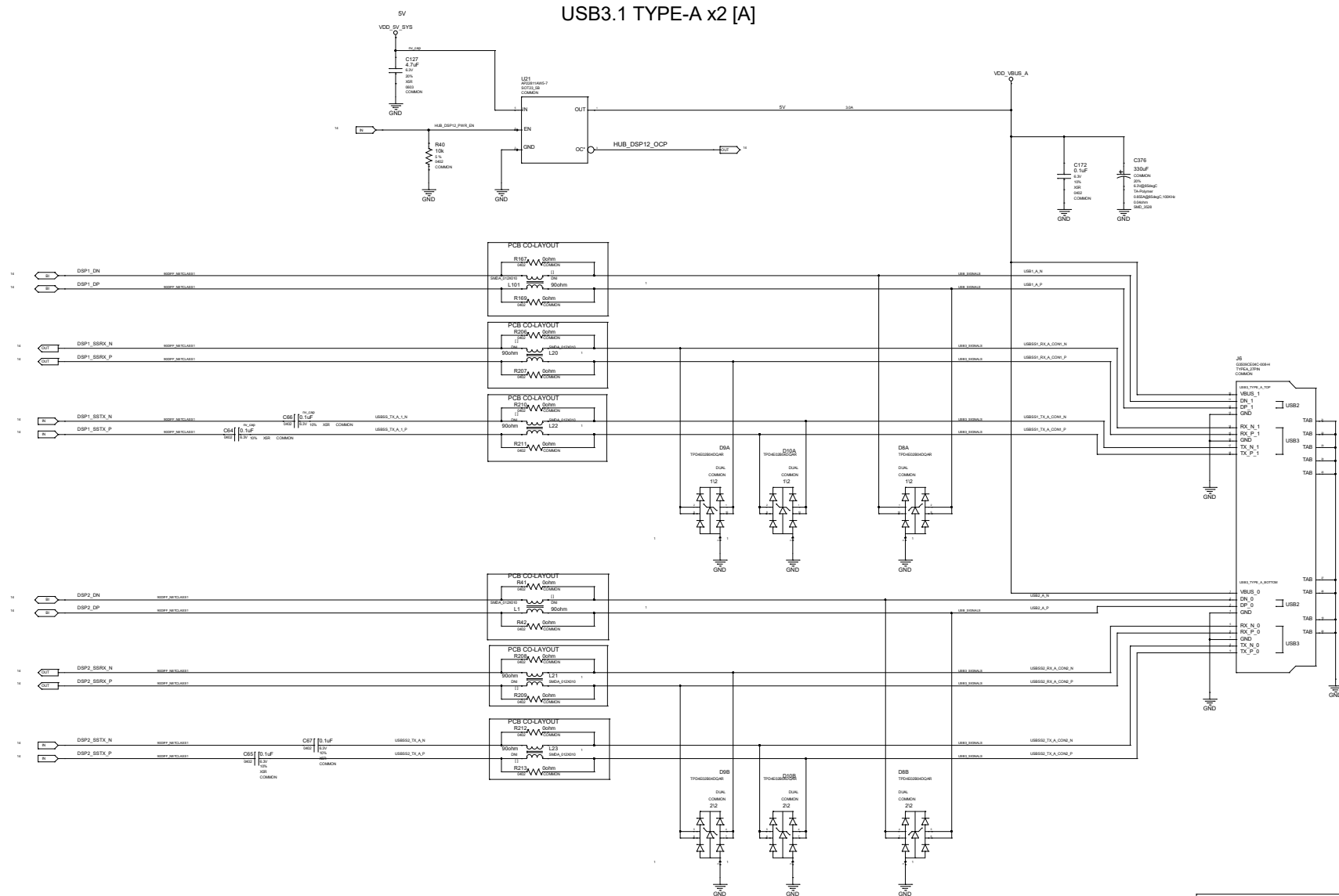



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USB3.1 TYPE-A x2 [A]

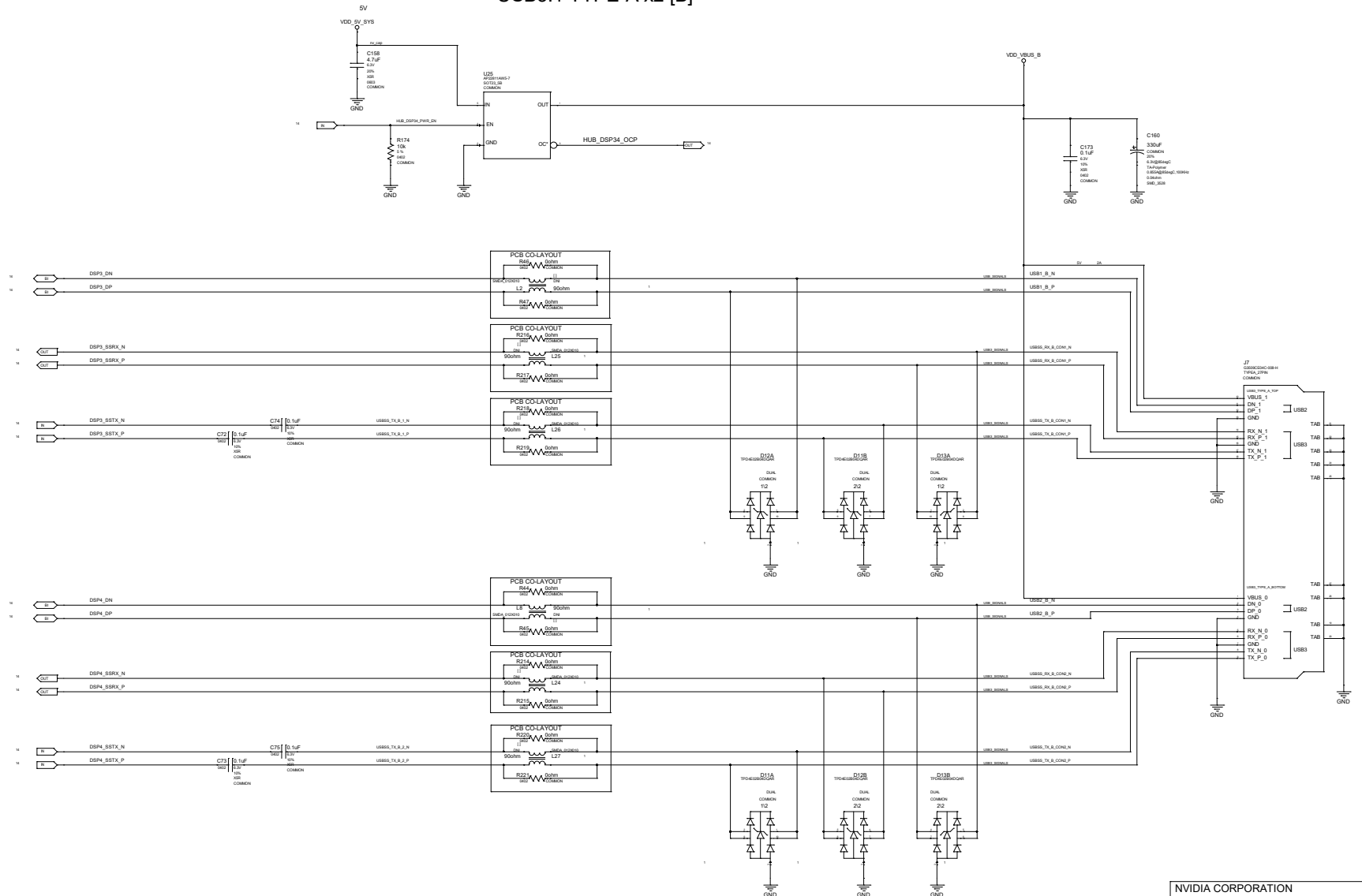


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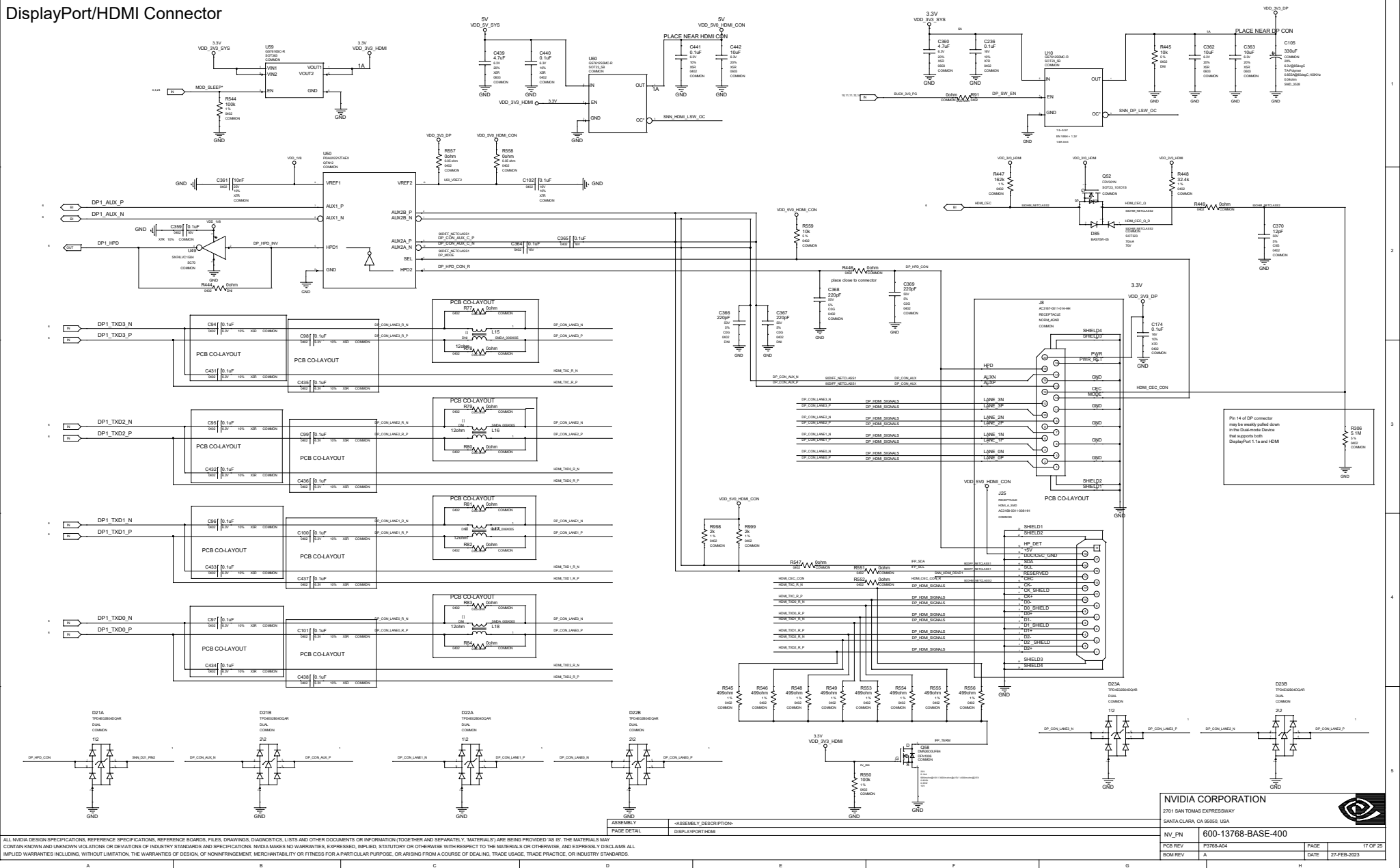
USB3.1 TYPE-A x2 [B]



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NV_PN PCB REV BOM REV	600-13768-BASE-400 P3768-404 A
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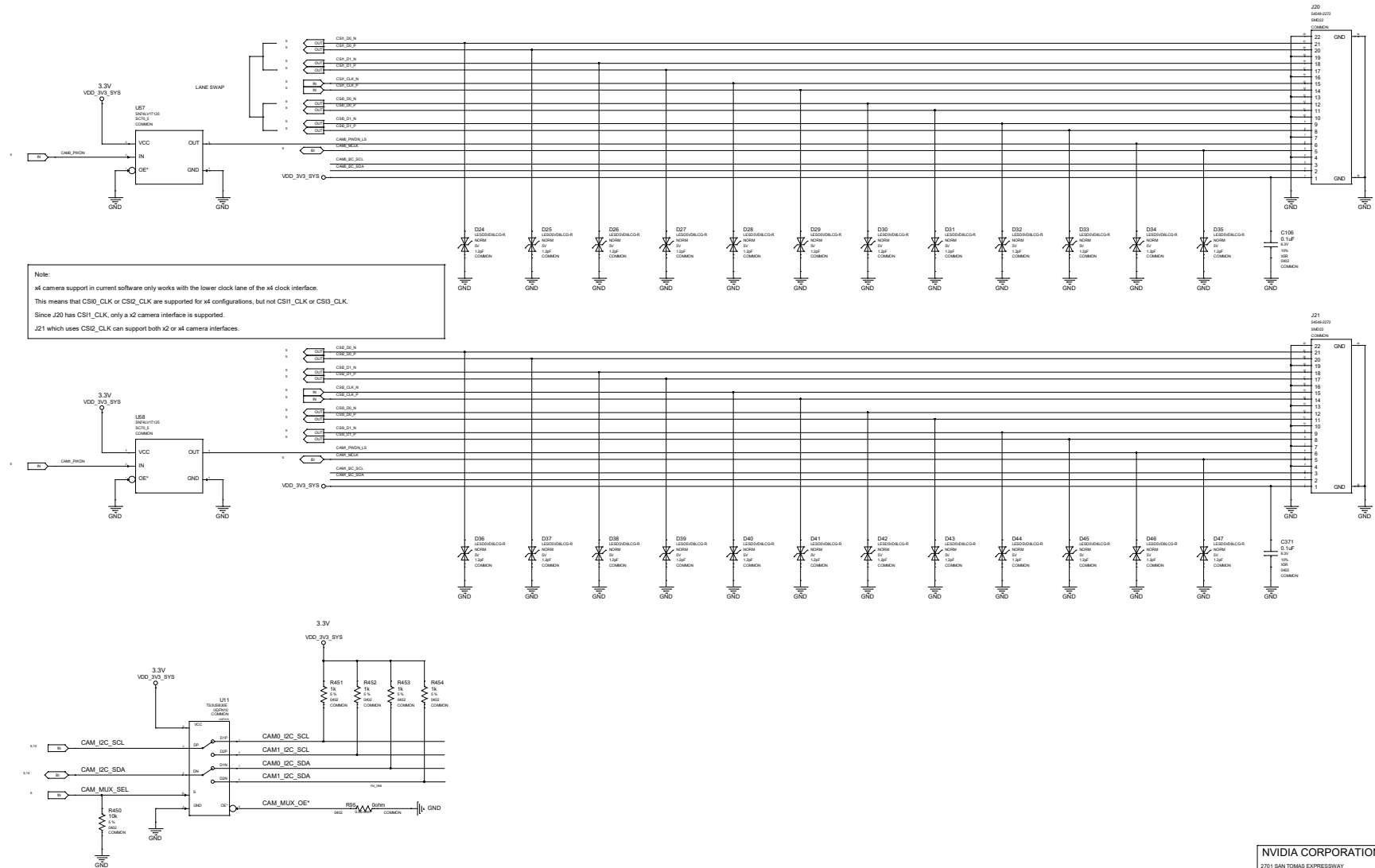
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DisplayPort/HDMI Connector



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CSI CAM CONNECTORS



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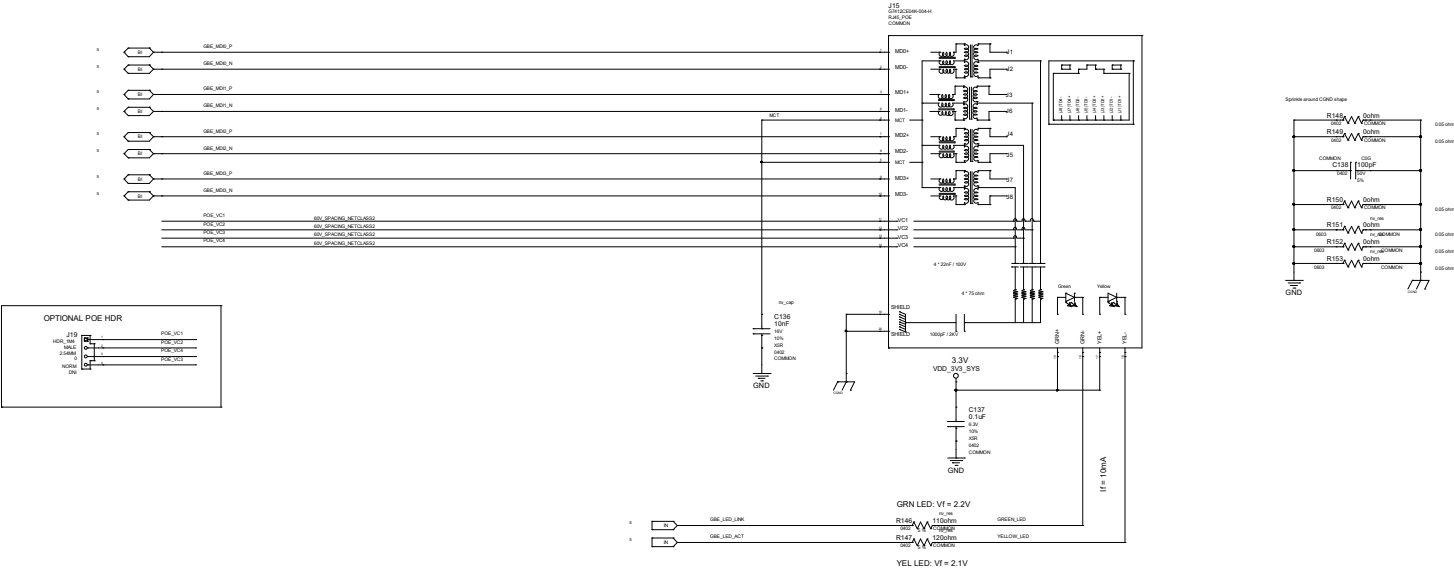


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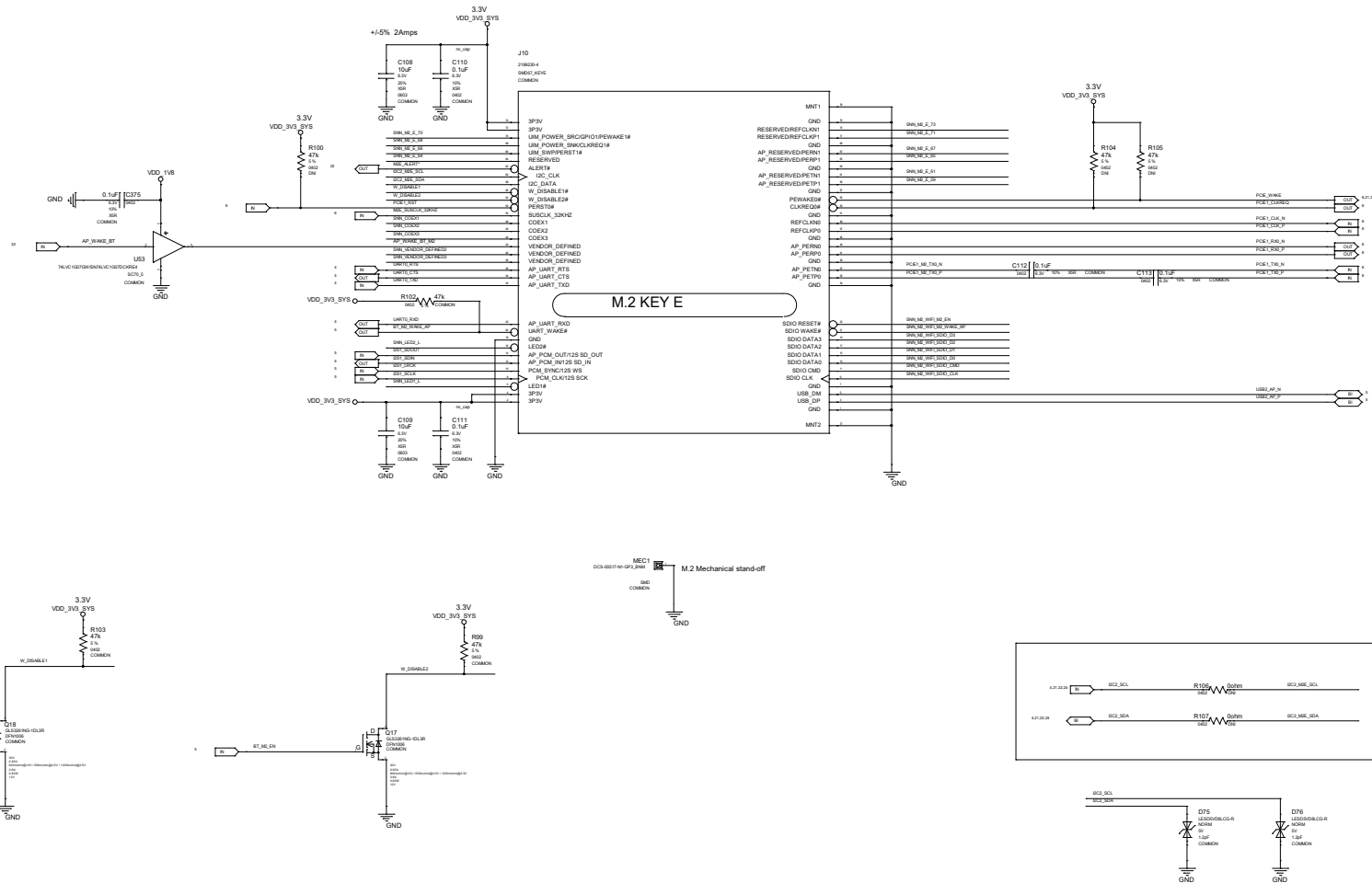
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GIGABIT ETHERNET W/ POE



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M.2 KEY-E (WIFI/BT)



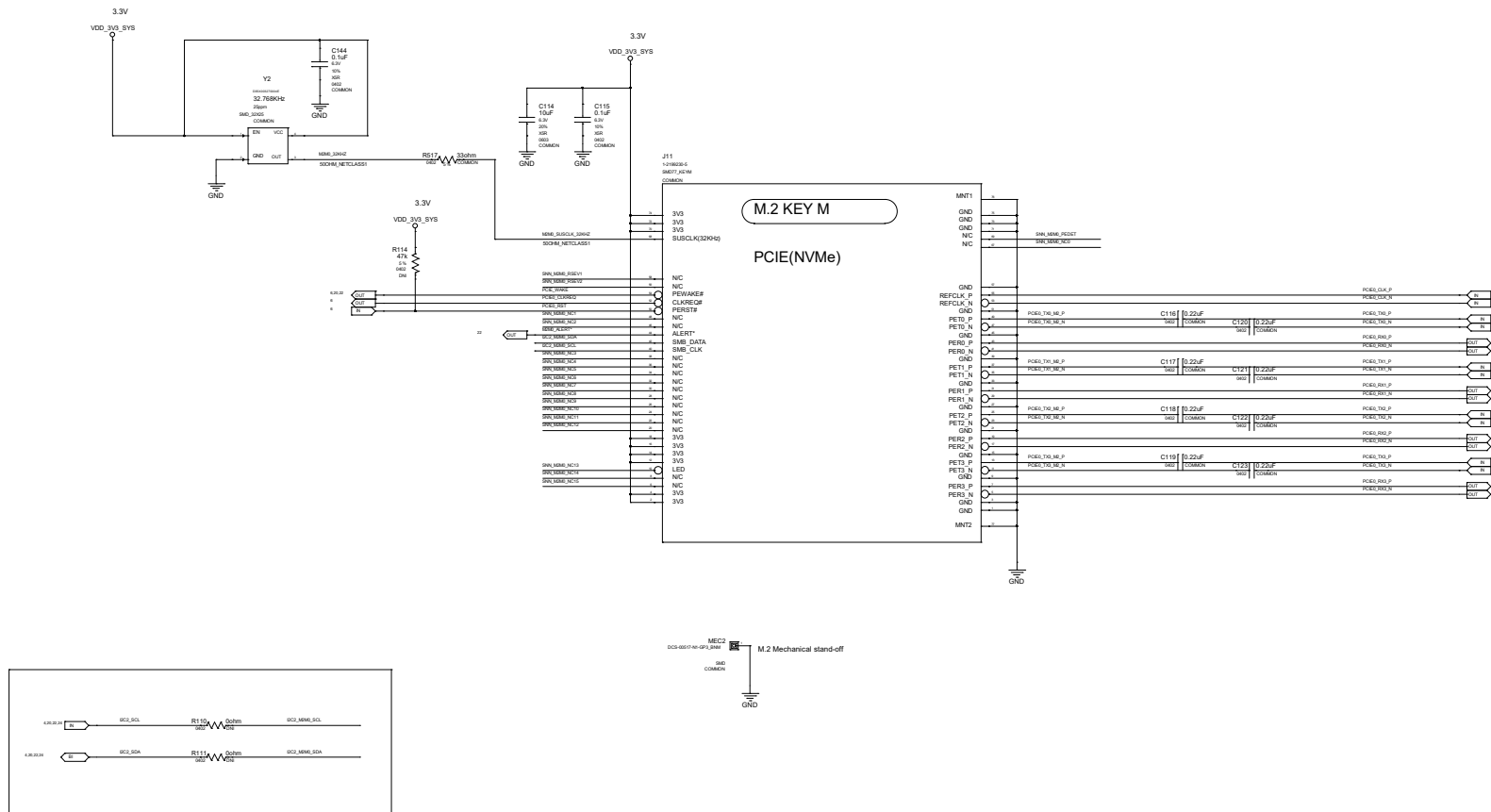
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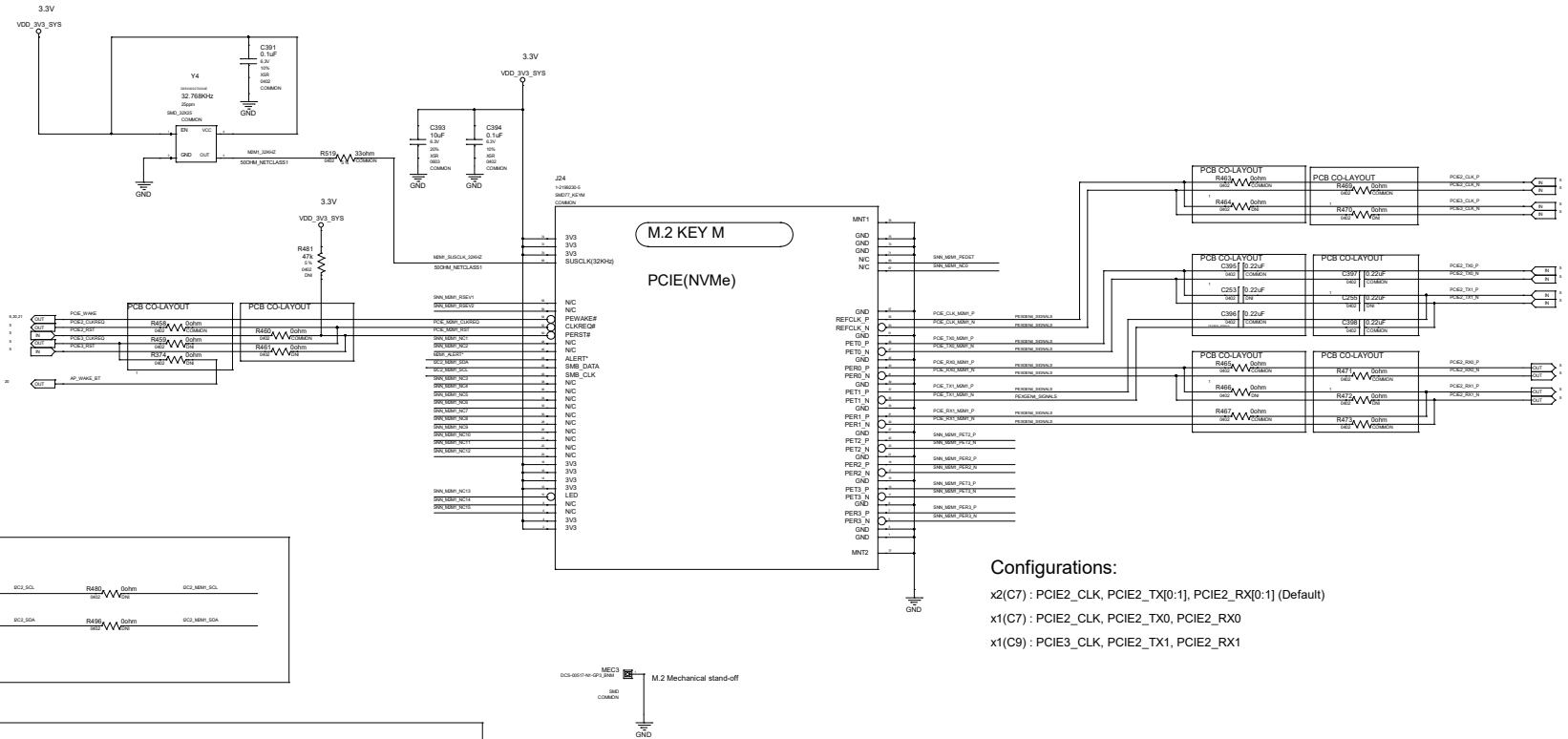
M.2 KEY-M (NVME) [A]
(1x X4PCIe)



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M.2 KEY-M (NVME) [B]
(1x X2PCle OR 2x X1PCle)

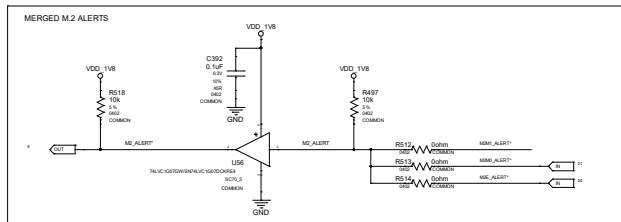
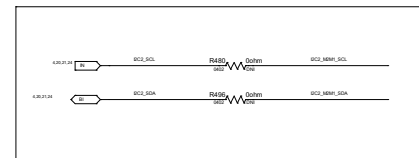


Configurations:

x2(C7) : PCIE2_CLK, PCIE2_TX[0:1], PCIE2_RX[0:1] (Default)

x1(C7) : PCIE2_CLK, PCIE2_TX0, PCIE2_RX0

x1(C9) : PCIE3_CLK, PCIE2_TX1, PCIE2_RX1



ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	M2 KEY-M (NVM) [B]

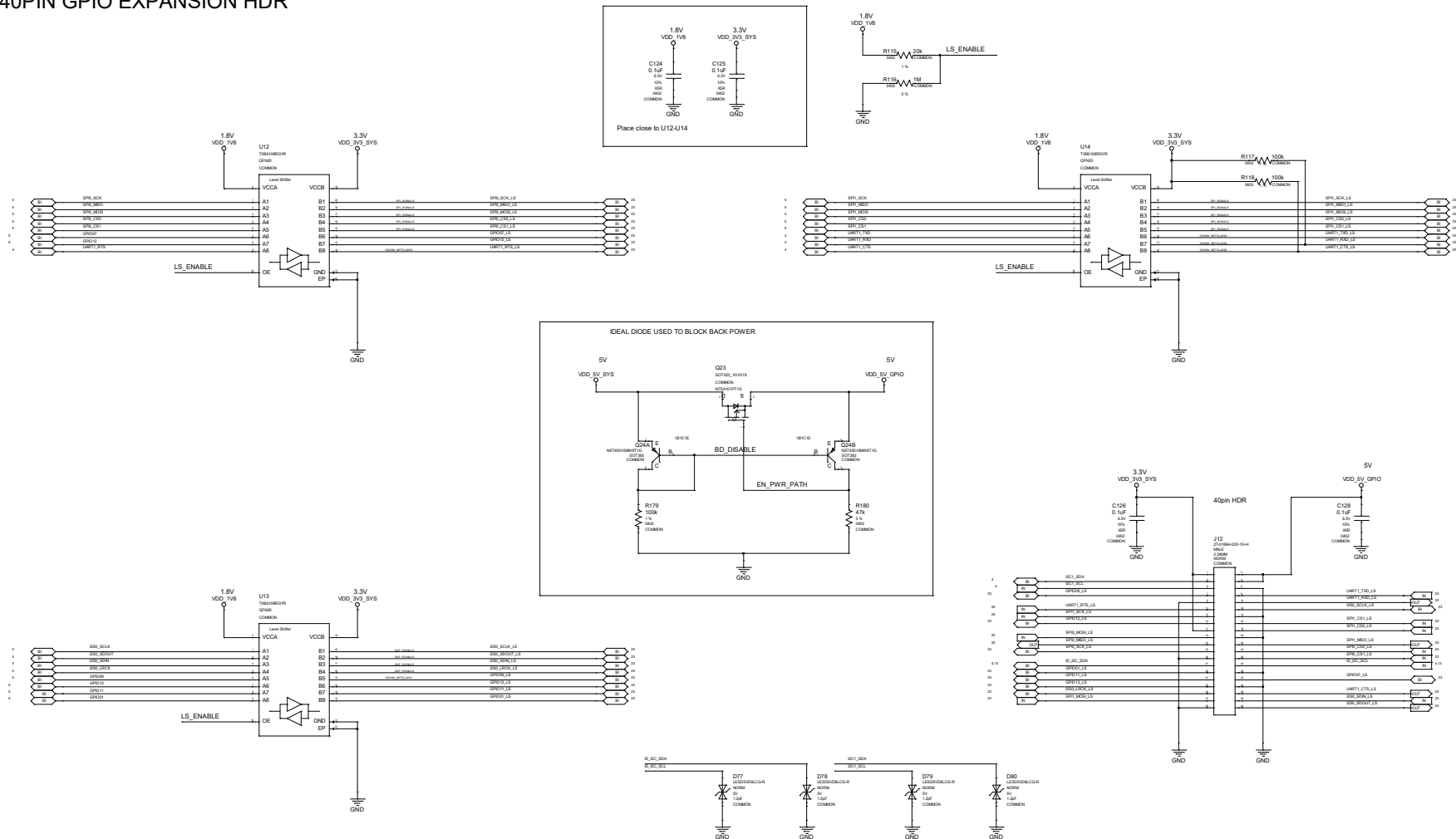
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40PIN GPIO EXPANSION HDR



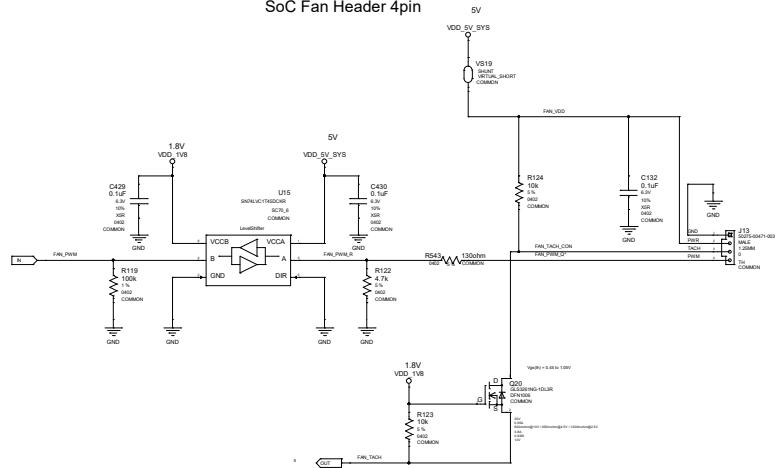
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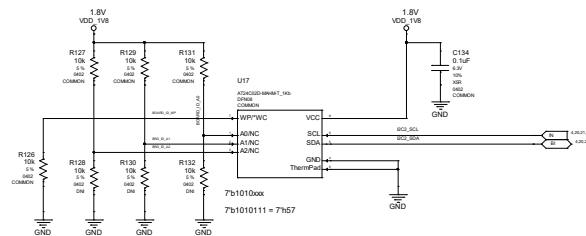
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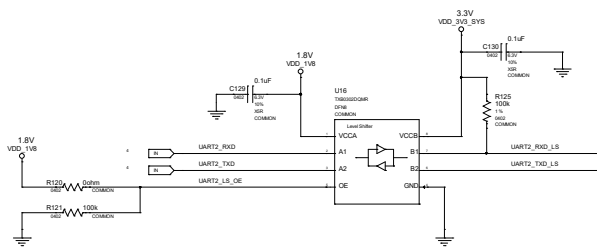
SoC Fan Header 4pin



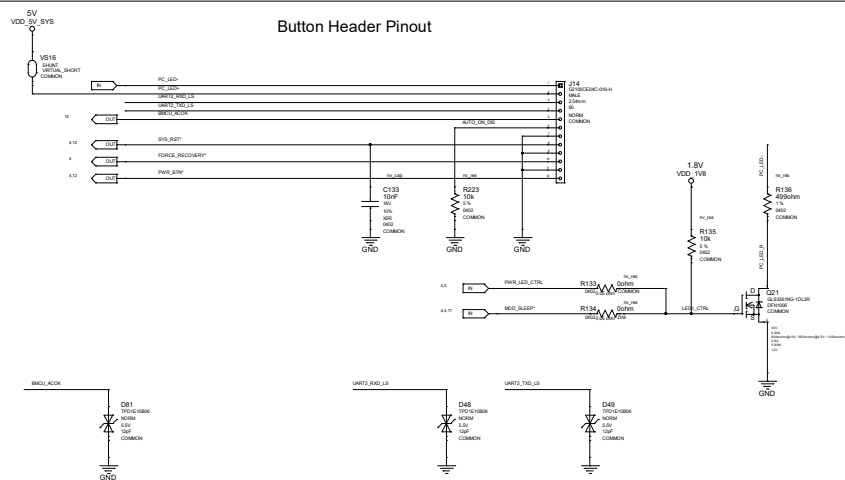
Carrier board config



Serial Port



Button Header Pinout



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