

P2597-B04

Jetson TX1/TX2 Developer Kit Carrier Board  
HDMI, USB, PCIe, SATA, Gbe

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Please get the latest stuff information from BOM sheet(P2597\_B04\_BOM.xlsx).

P2597 I2C Port Assignments

Slave Device	BUS:Device address
INA3221 (Power measurement)	I2C Gen 2 : 7'h42
INA3221 (Power measurement)	I2C Gen 2 : 7'h43
TCA9539 (GPIO Expander)	I2C Gen 2 : 7'h74
TCA9539 (GPIO Expander)	I2C Gen 2 : 7'h77
BOARDID EEPROM	I2C Gen 3 : 7'57h

P2180 I2C Port Assignments


Slave Device	BUS:Device address
TMP451 (Thermal)	I2C Gen 1 : 7'h4C
ADS1015 (ACA detection)	I2C Gen 2 : 7'h4A
INA226 (Power measurement)	I2C Gen 2 : 7'h46
INA3221 (Power measurement)	I2C Gen 2 : 7'h40

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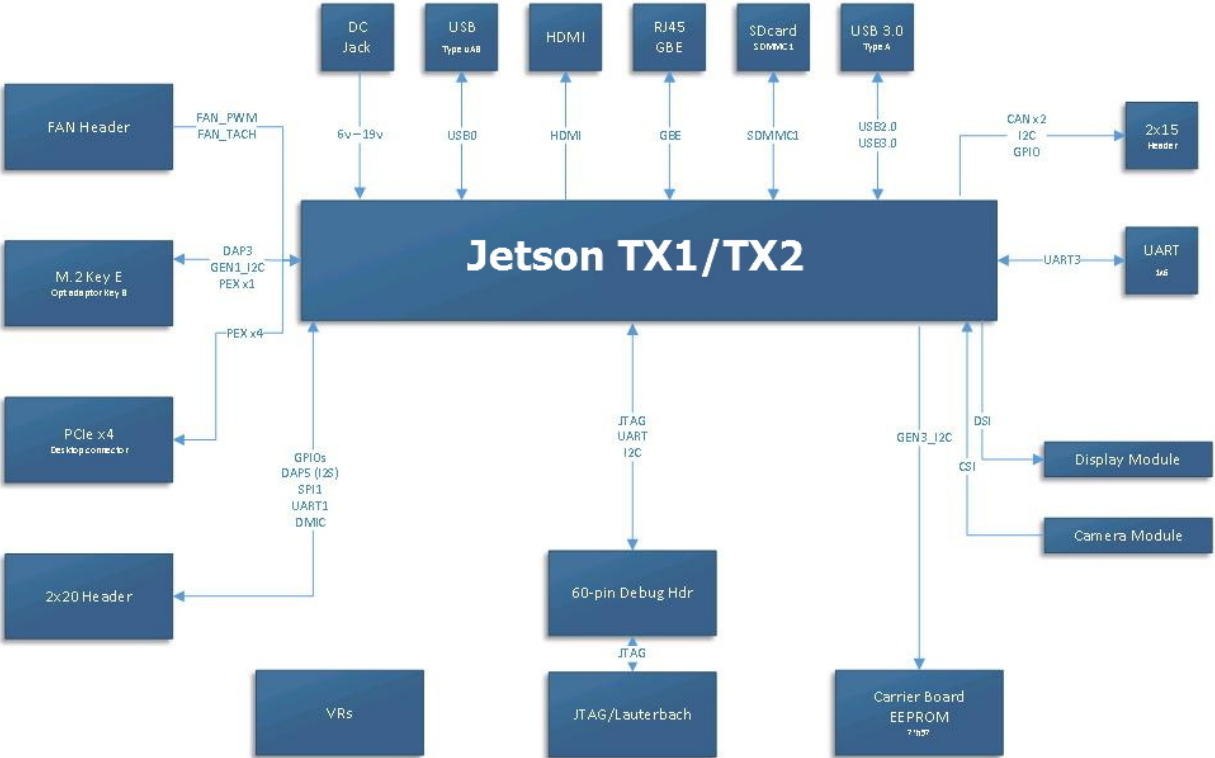


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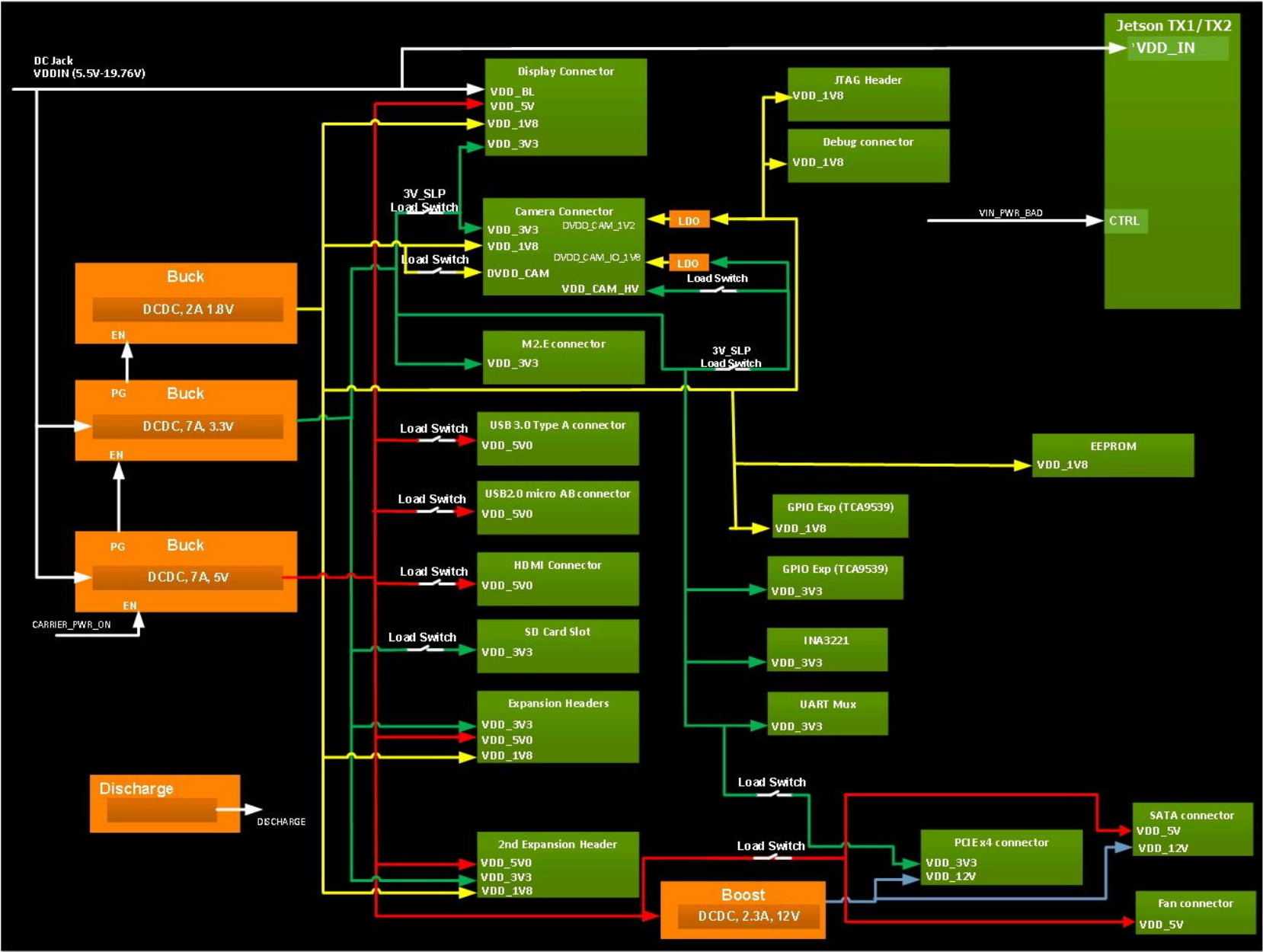
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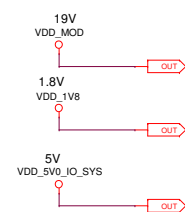
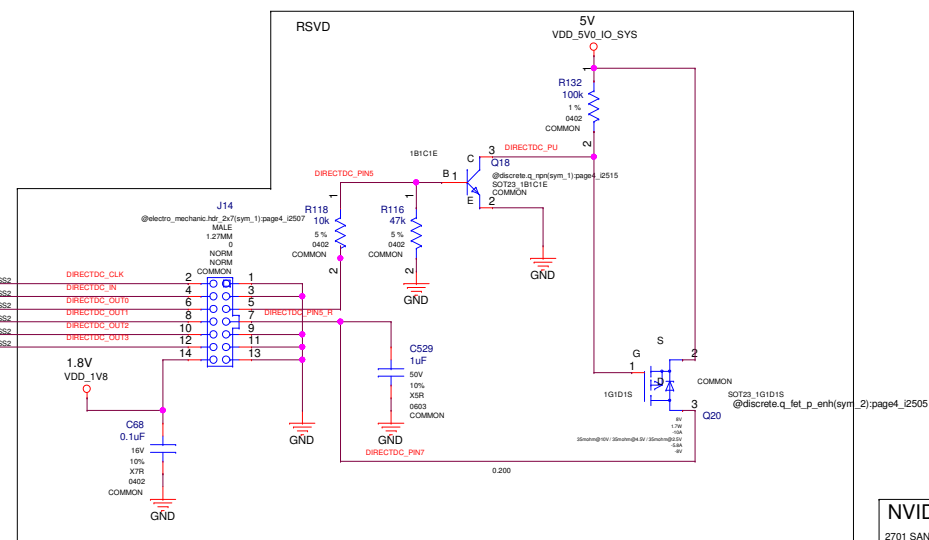
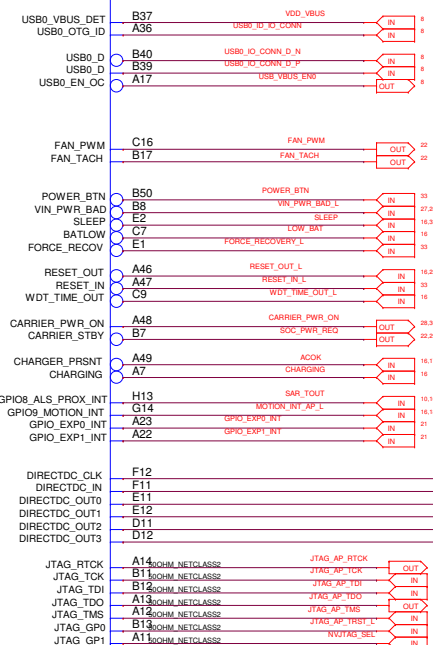
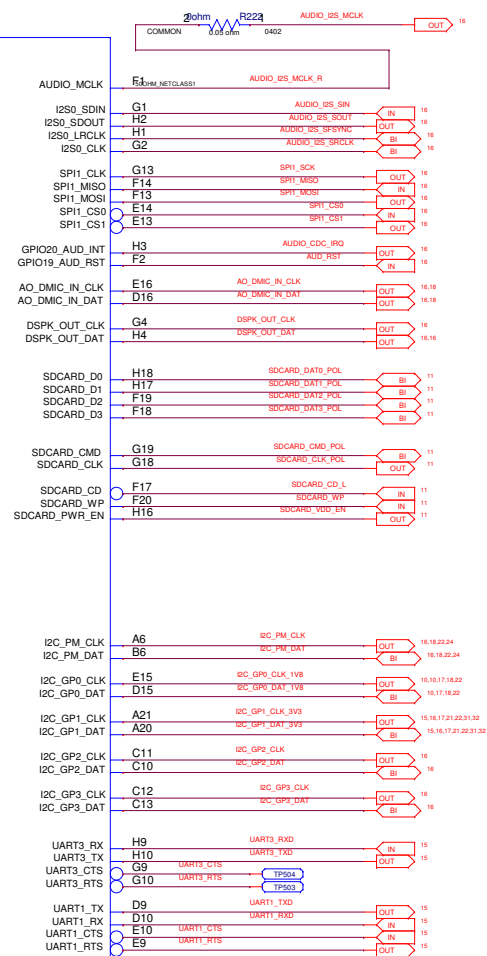
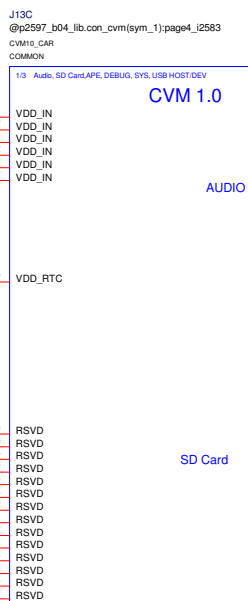
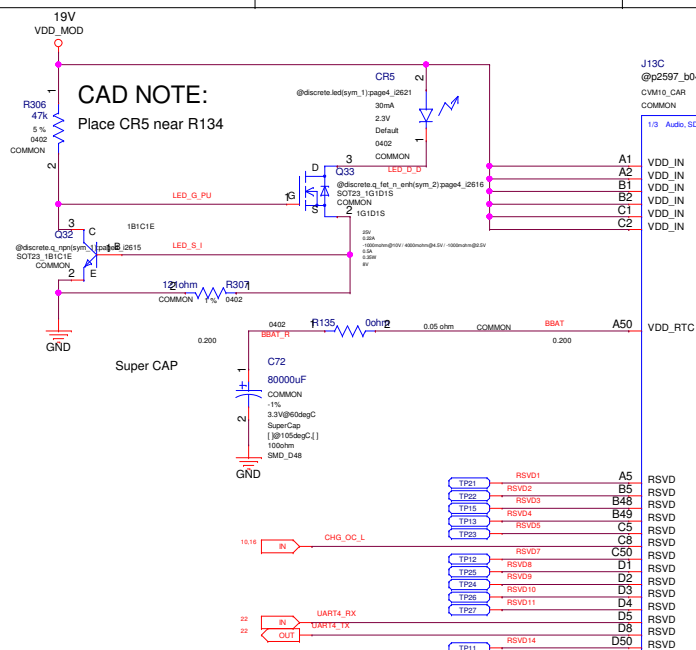
Power Tree



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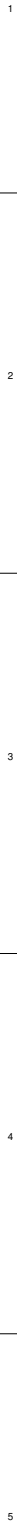
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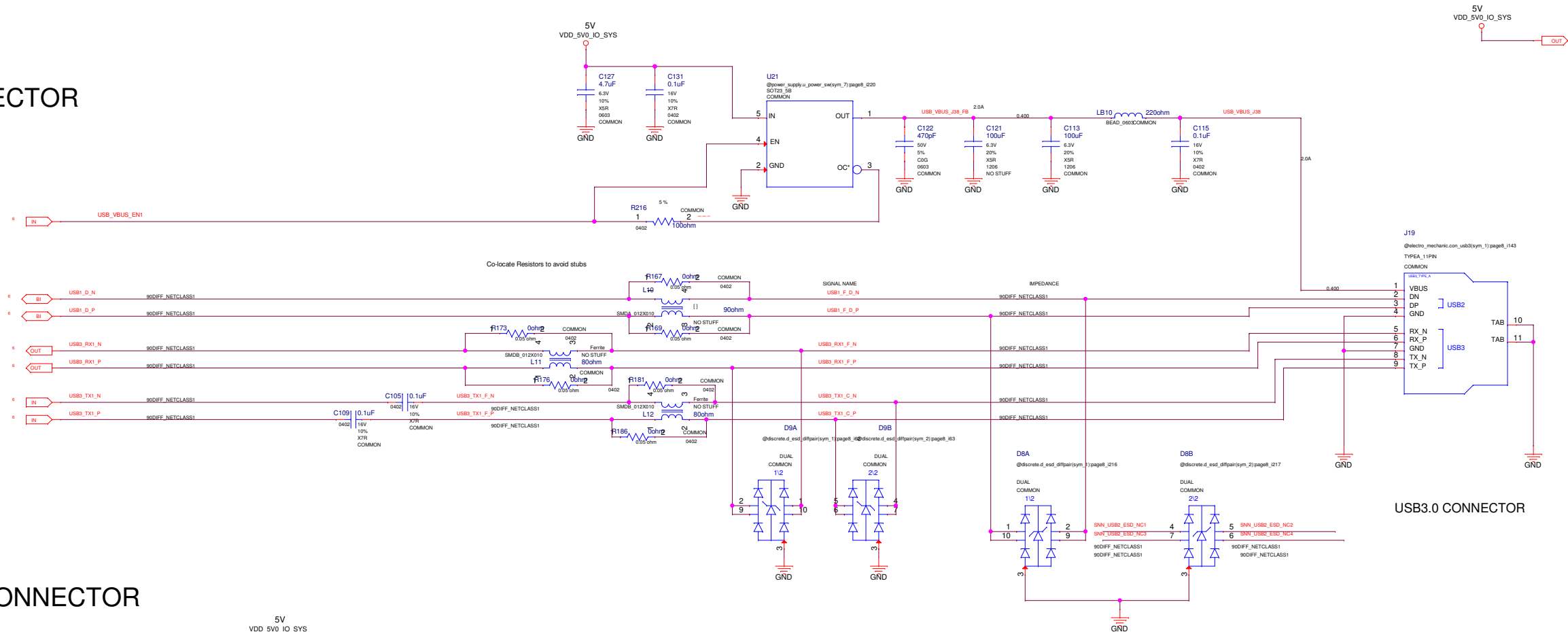
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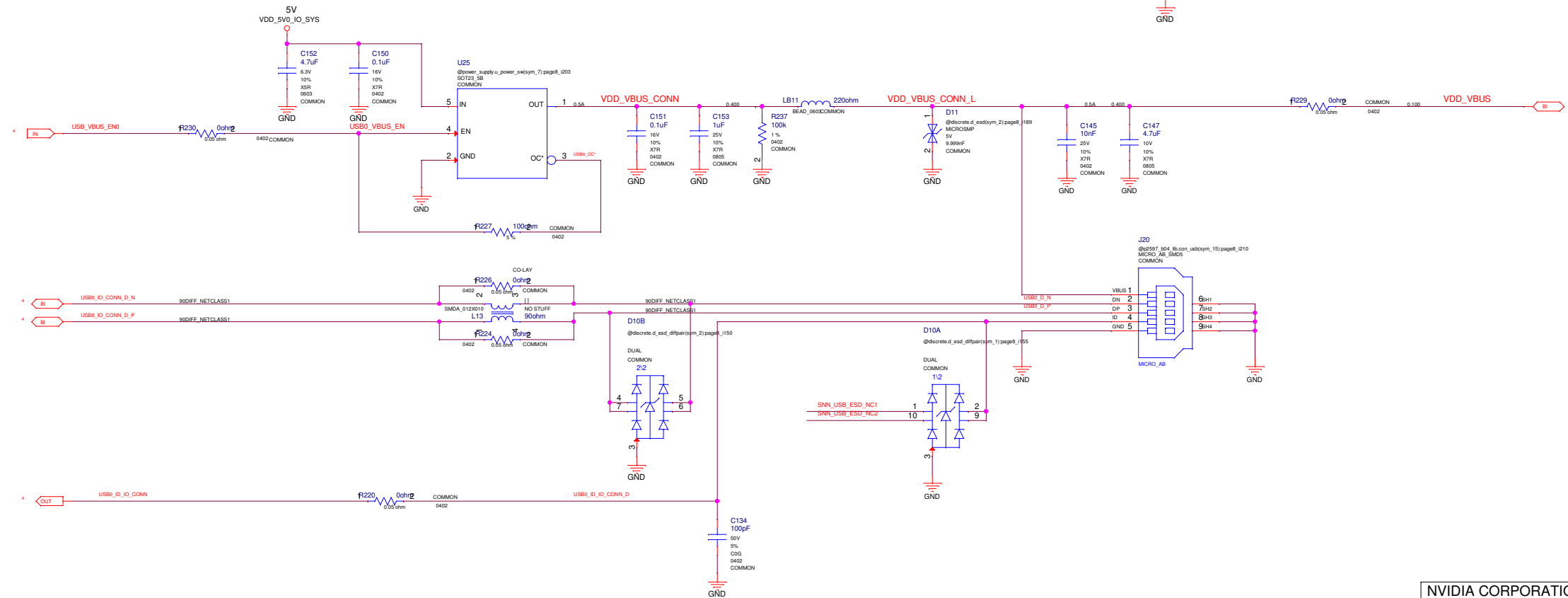
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USB 3.0 TYPE A CONNECTOR



MICRO AB USB 2.0 CONNECTOR

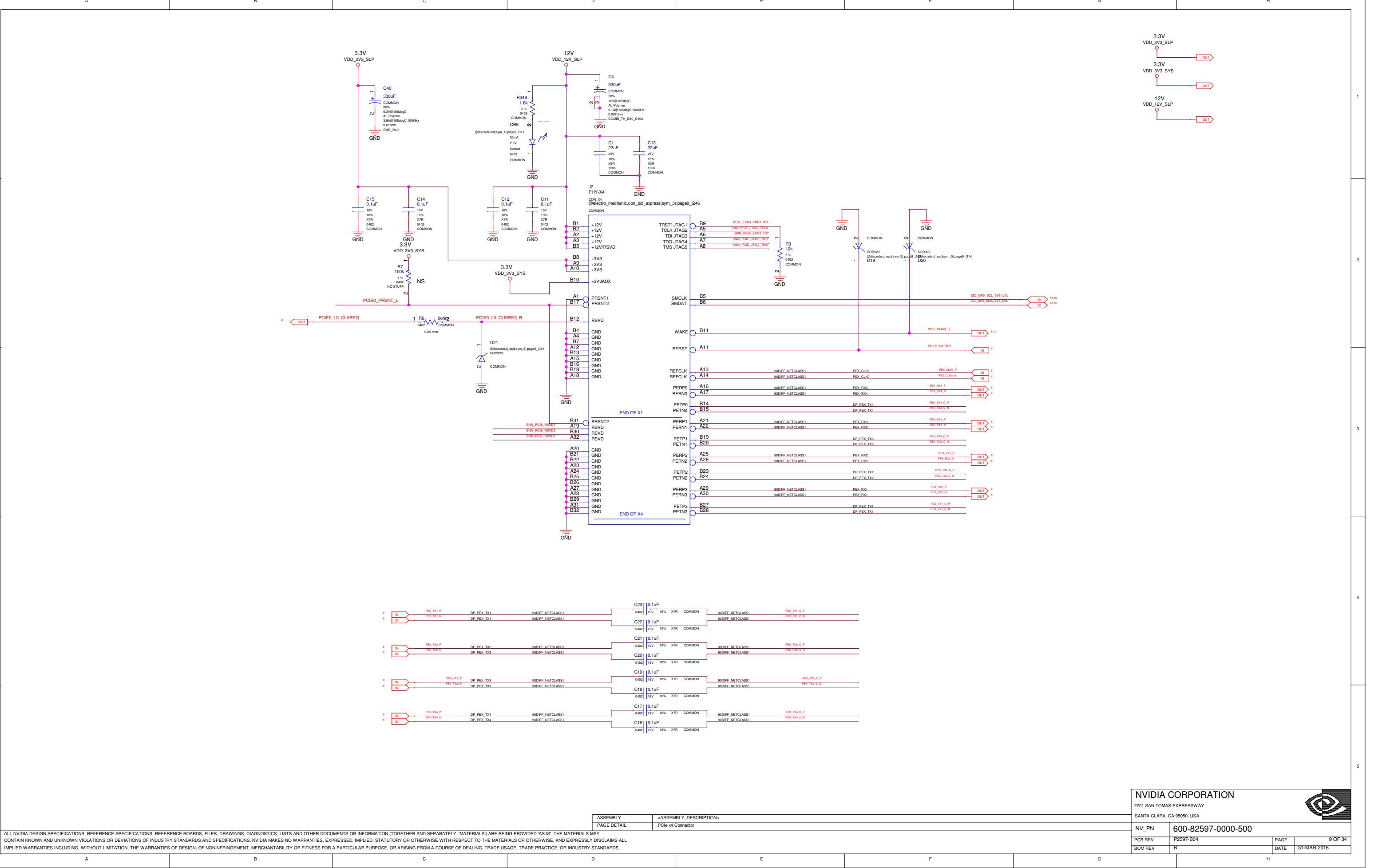


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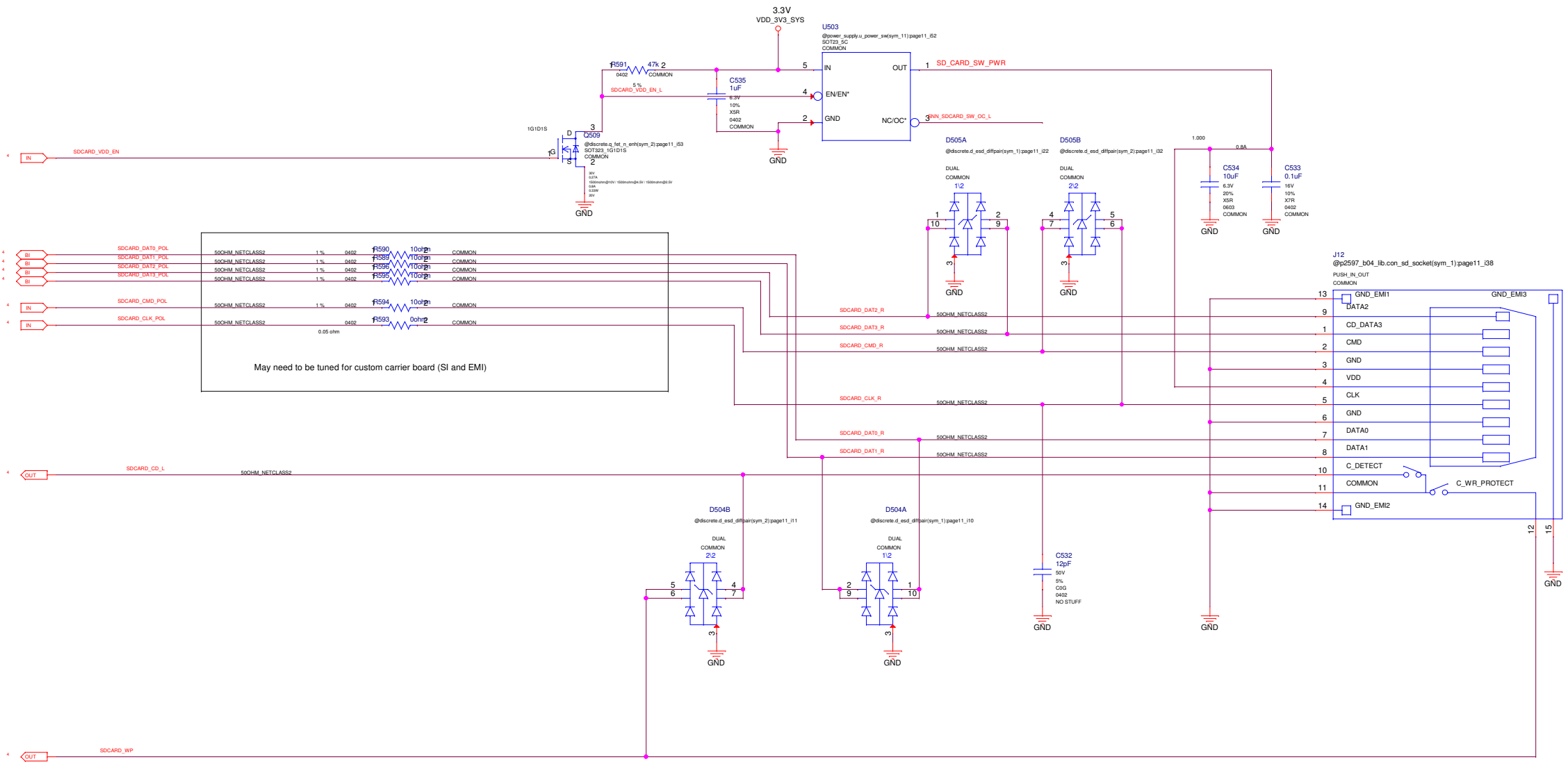
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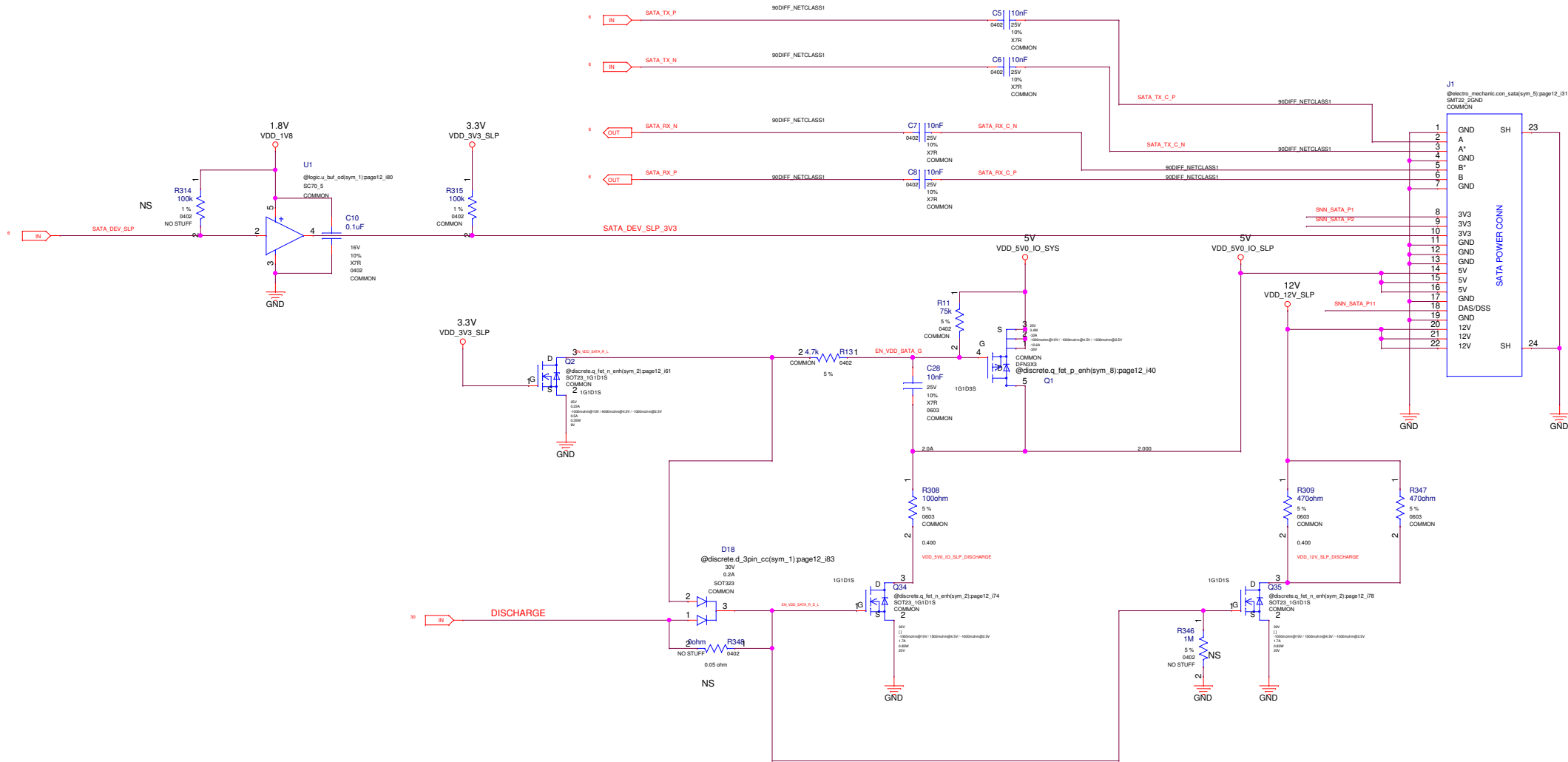
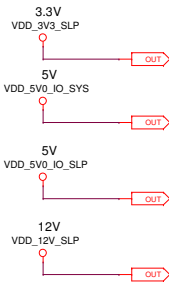
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# SD CARD SOCKET



SATA Connector

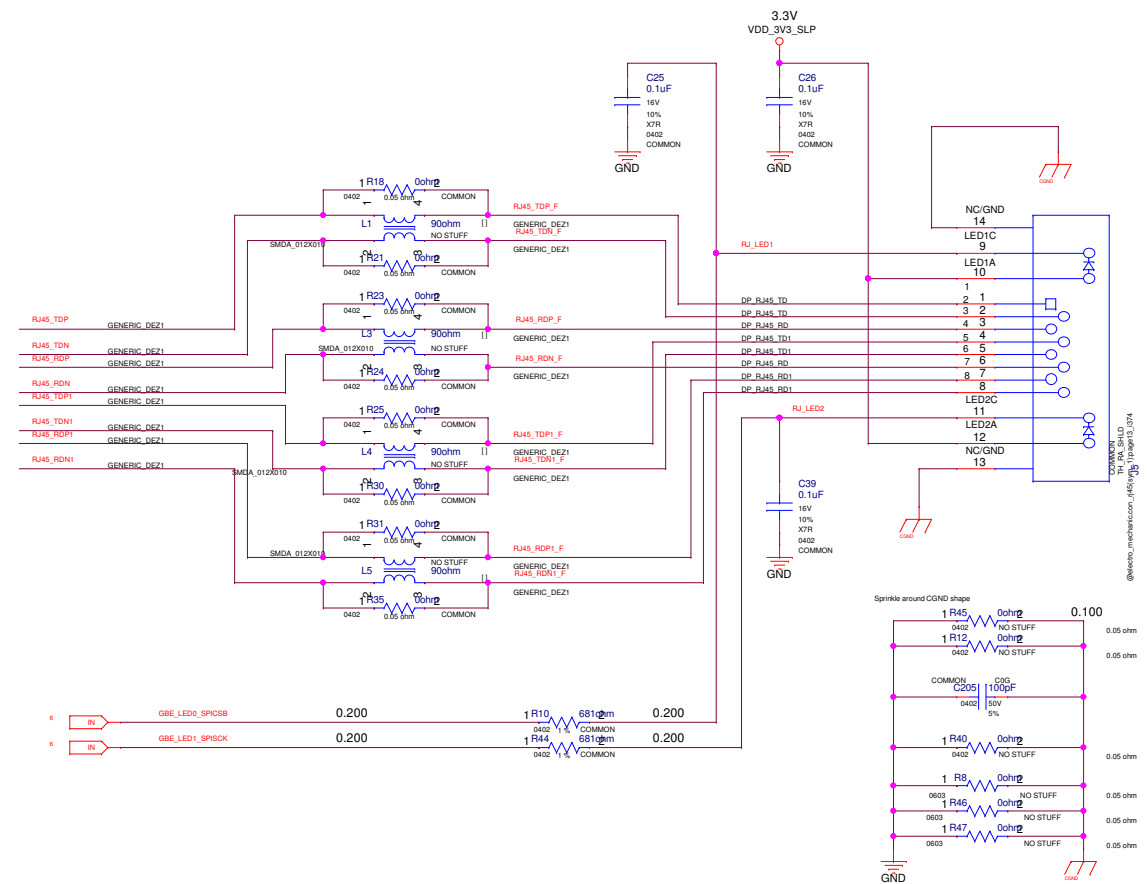
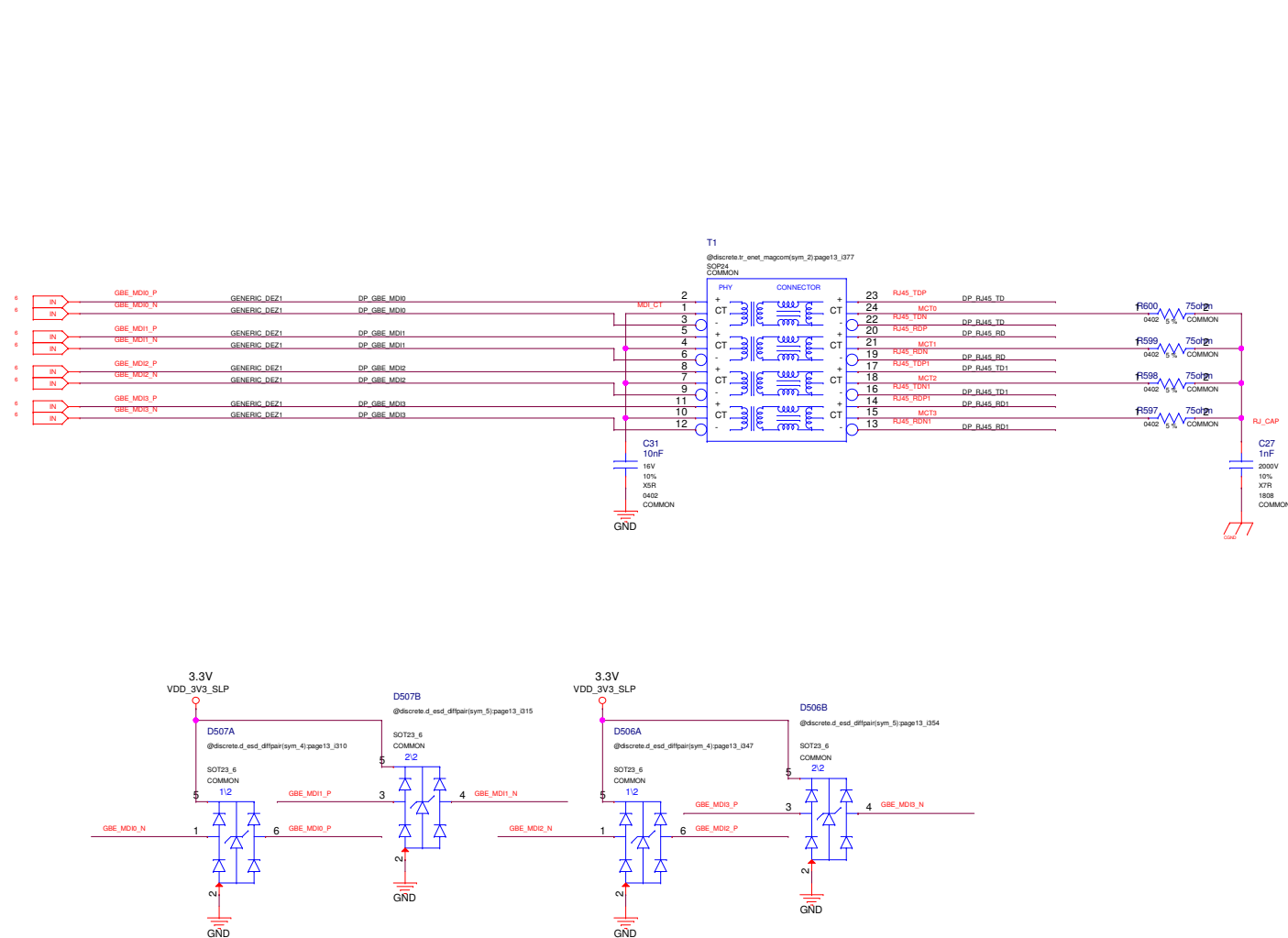


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## Gigabit Ethernet



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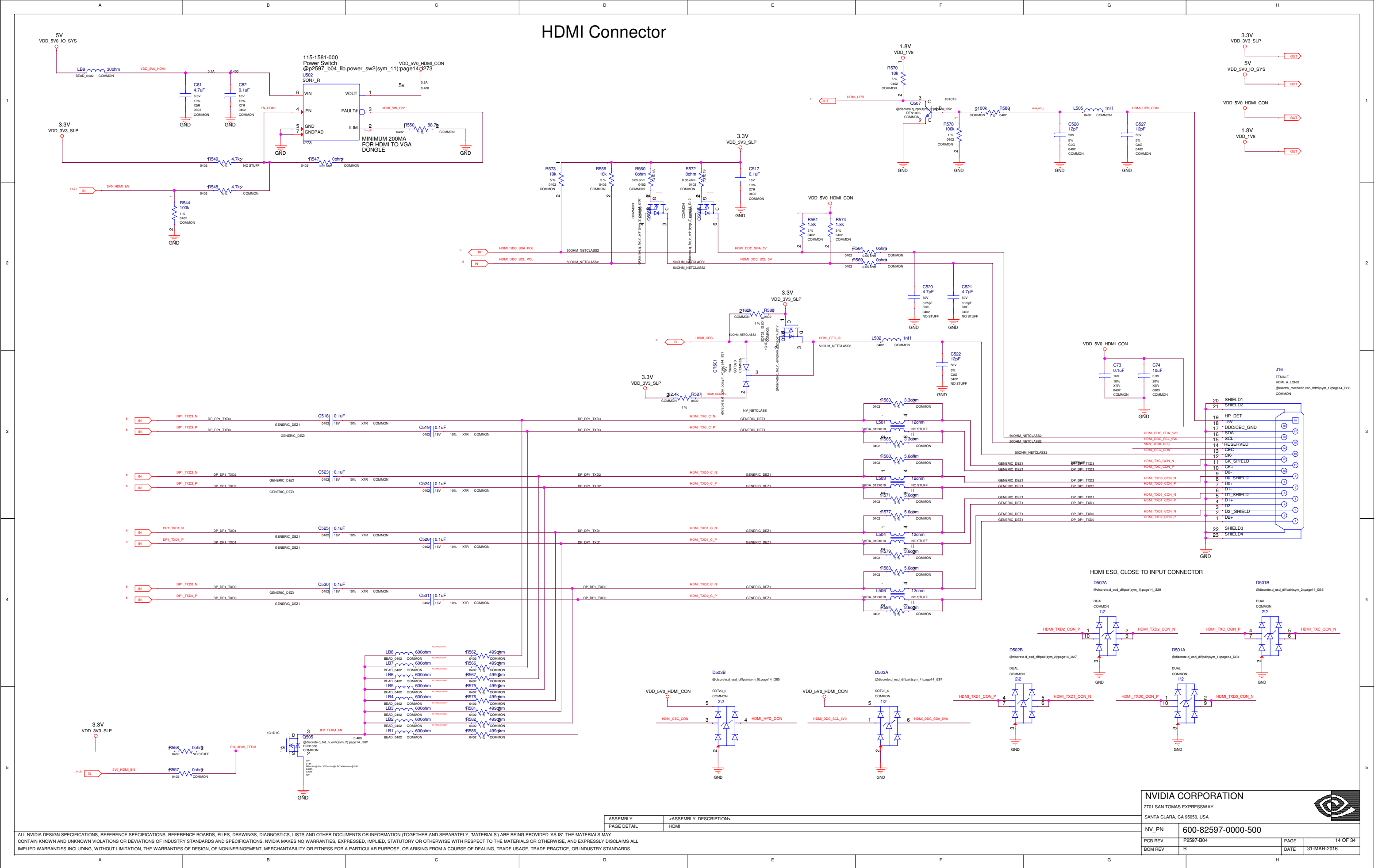
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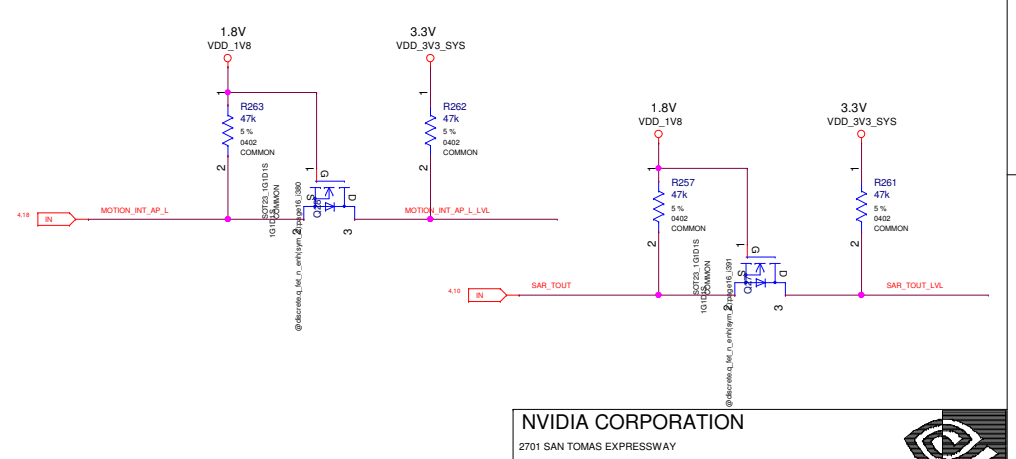
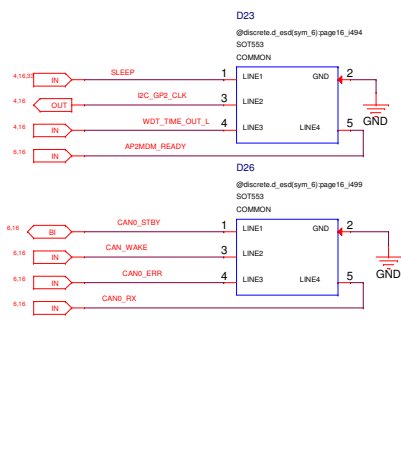
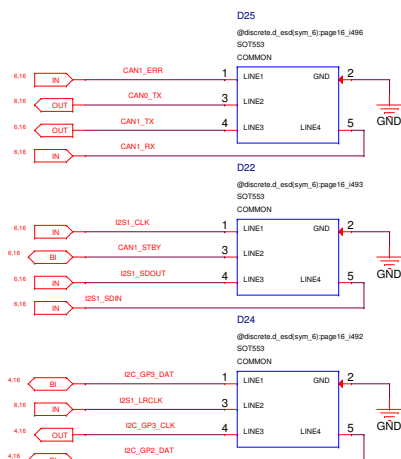
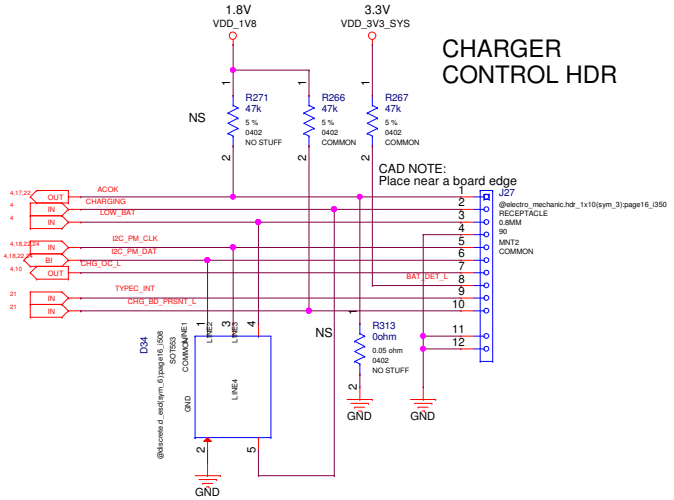
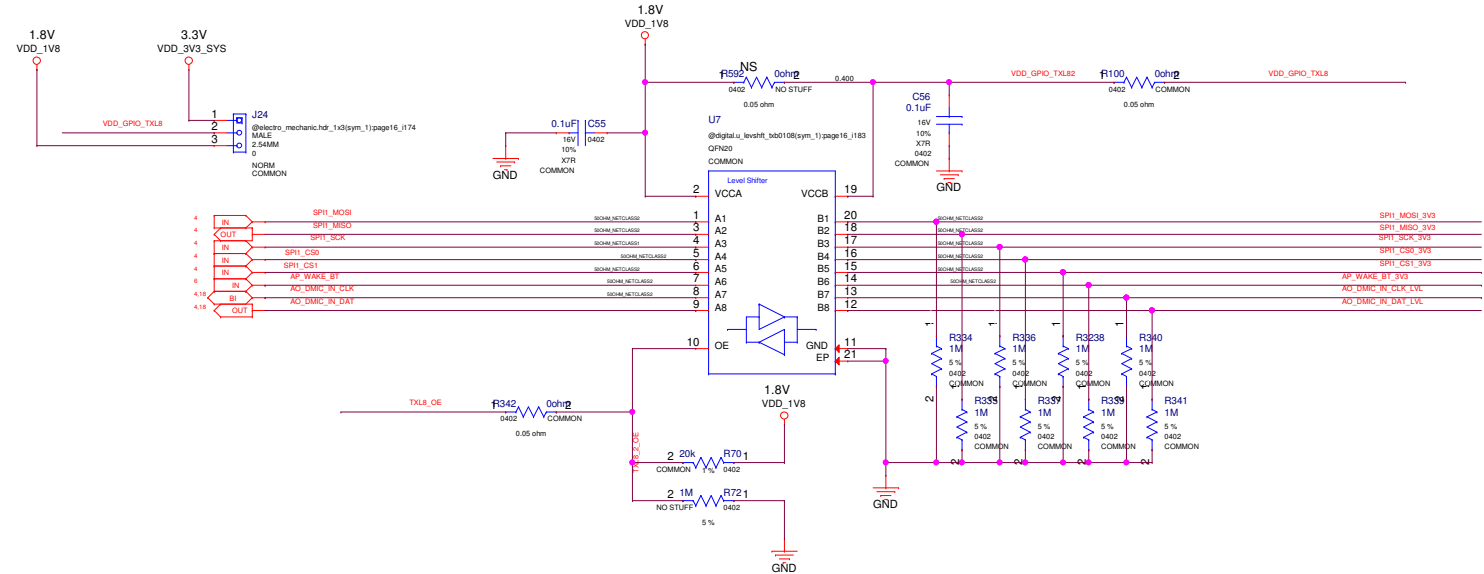
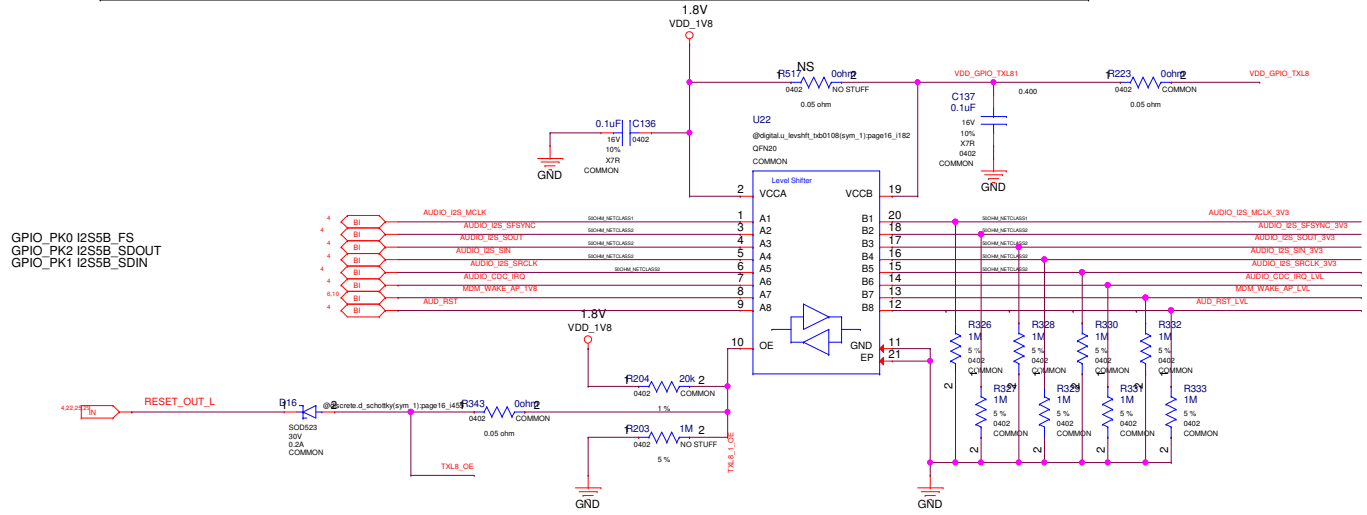
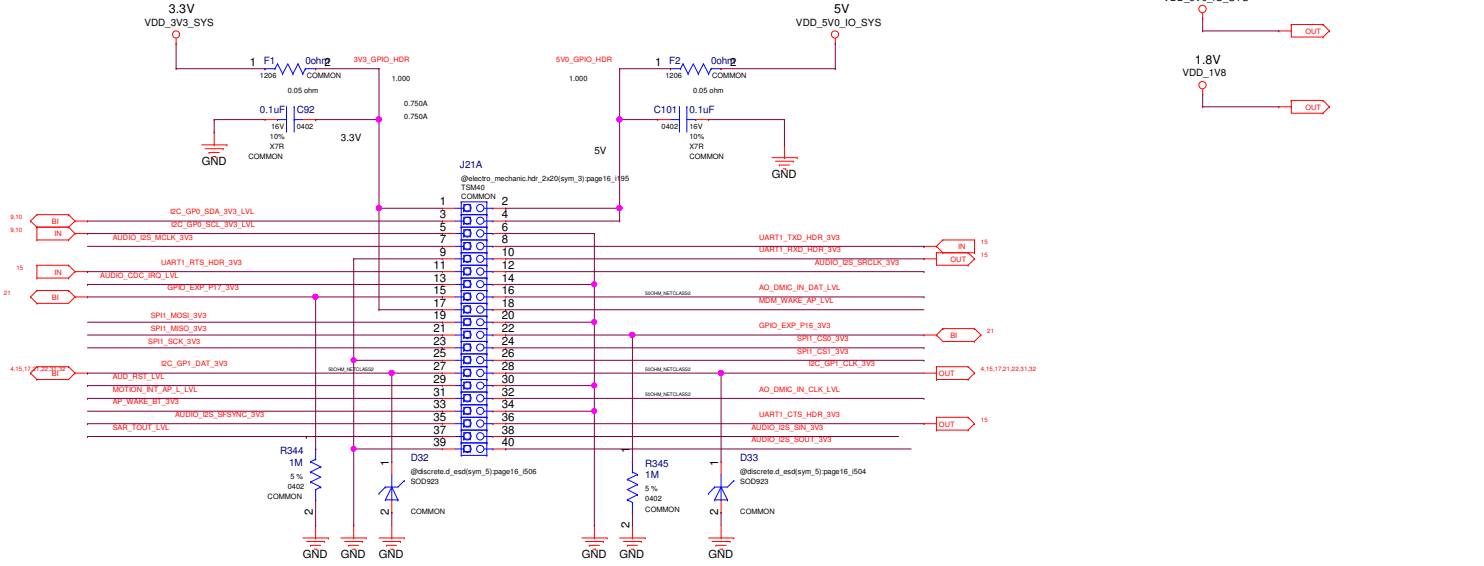
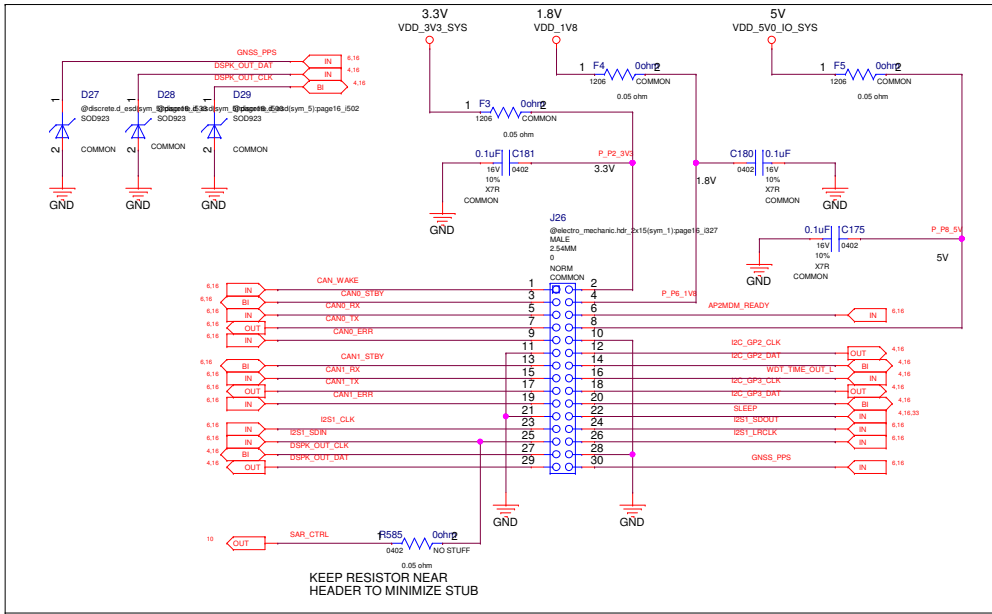
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## HDMI Connector





## GPIO Expansion Headers



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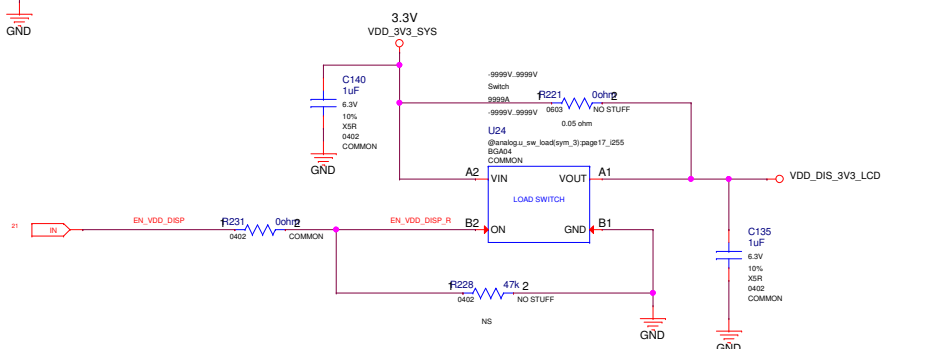
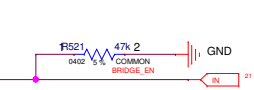
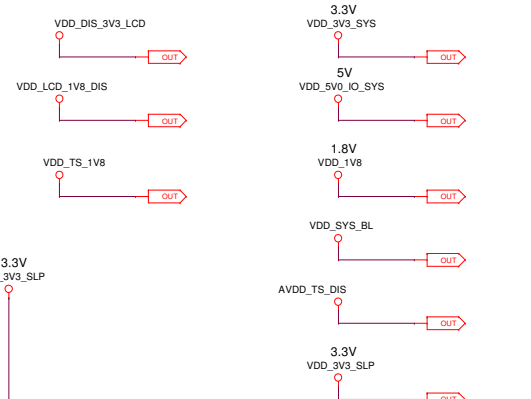
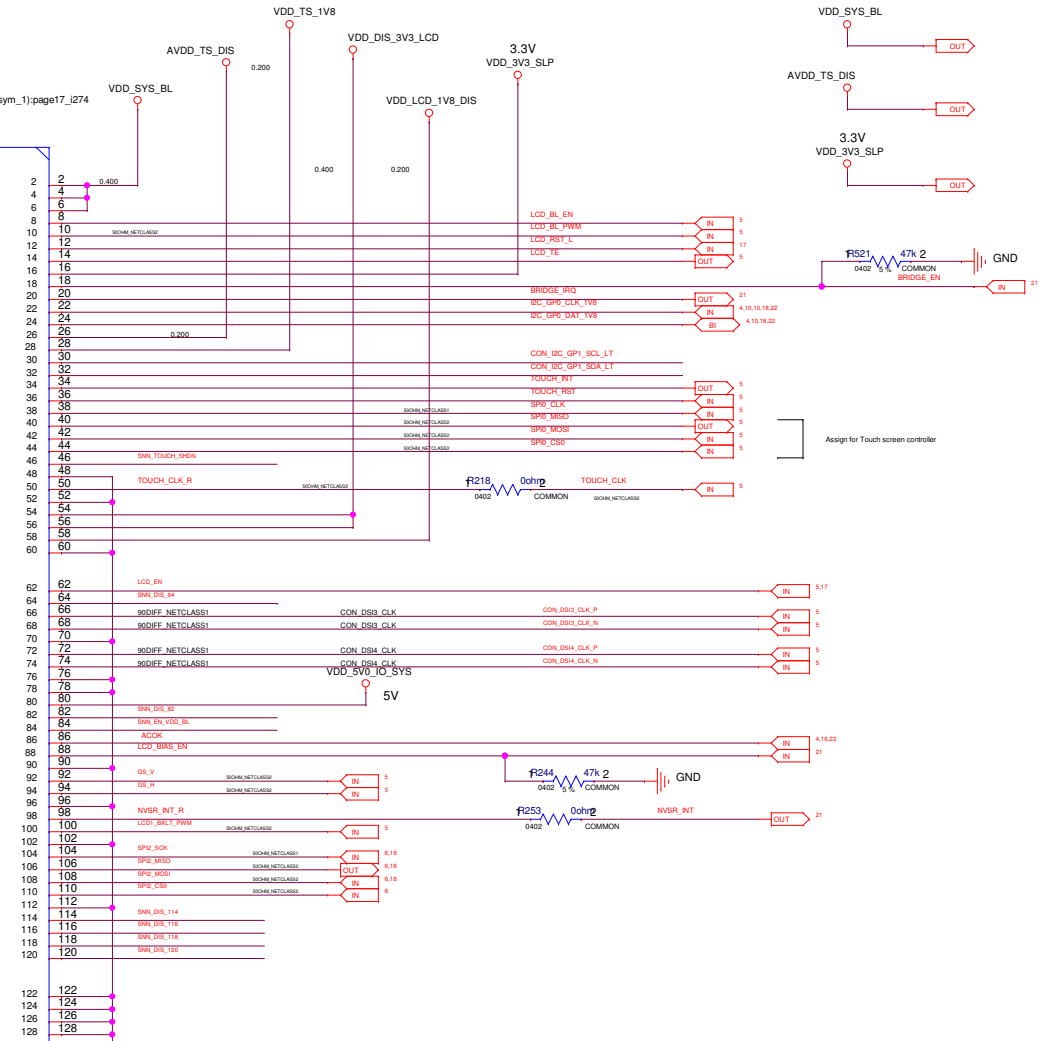
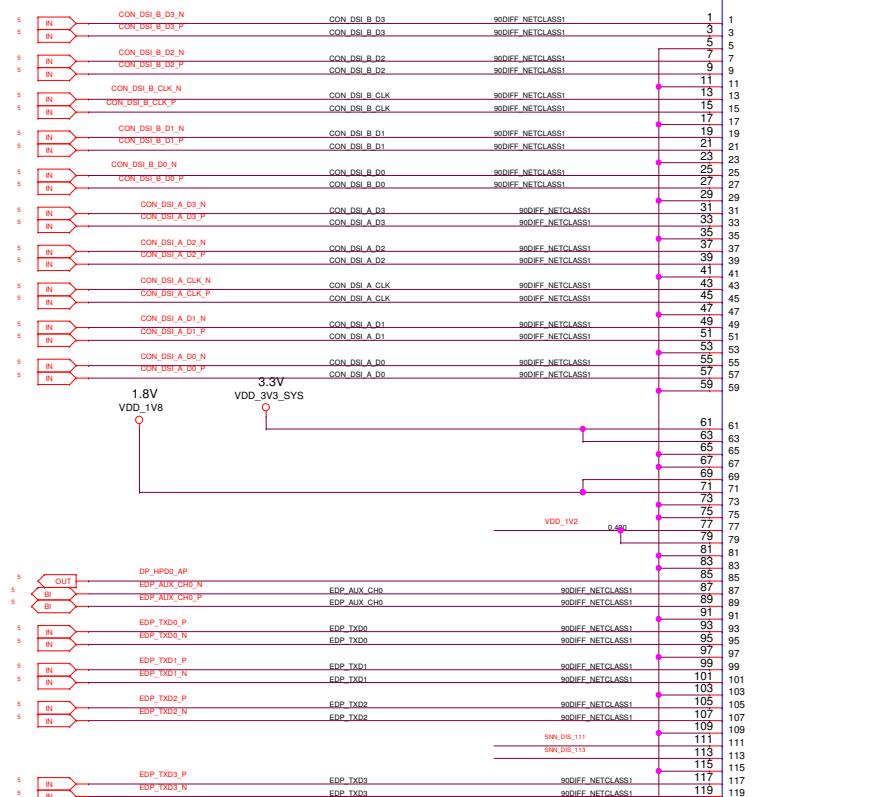
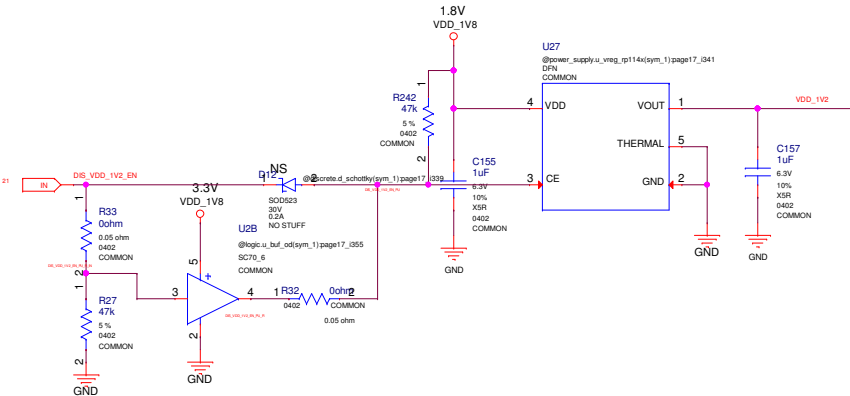
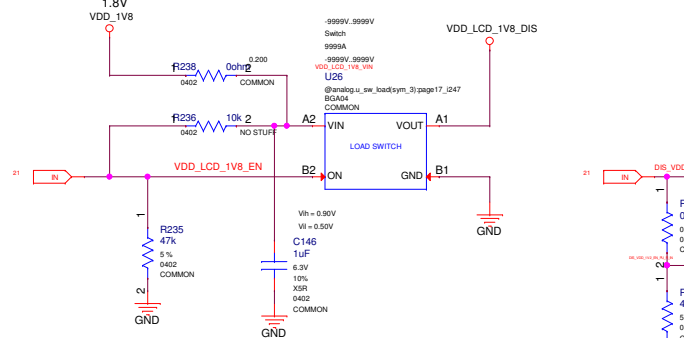
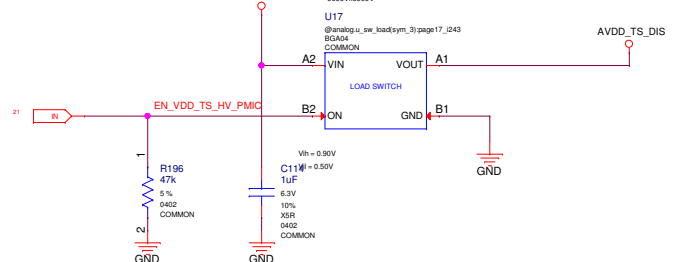
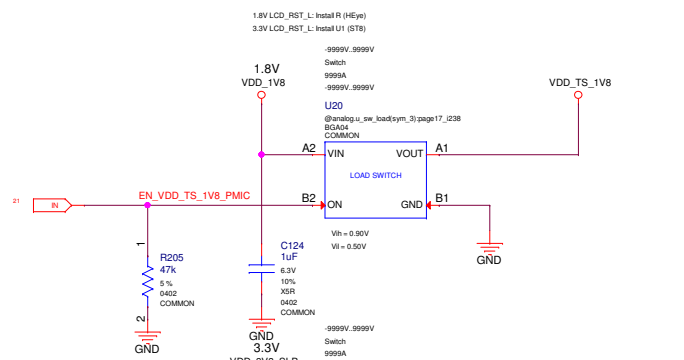
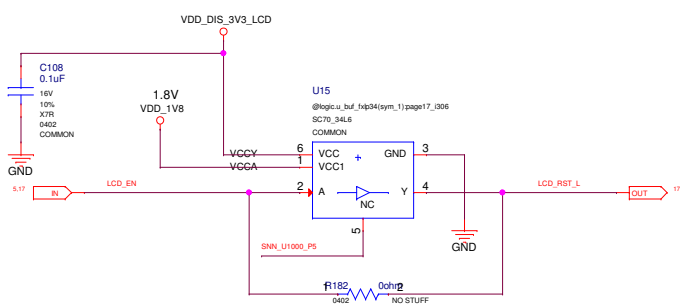
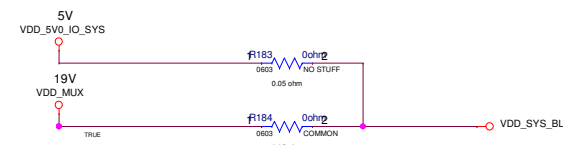


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# DISPLAY CONNECTOR

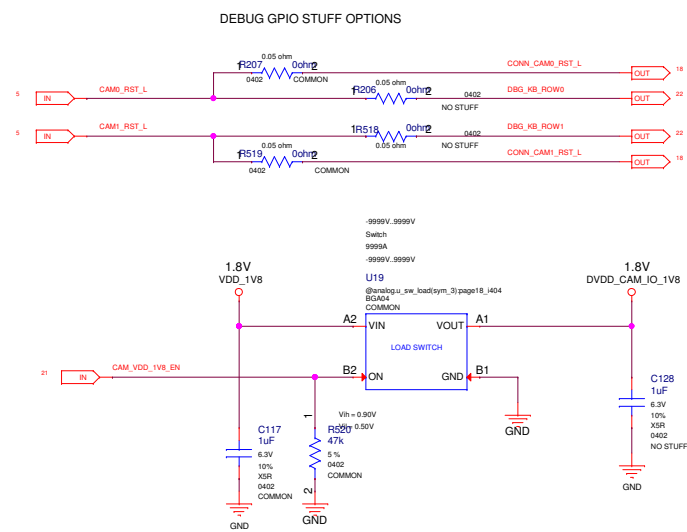
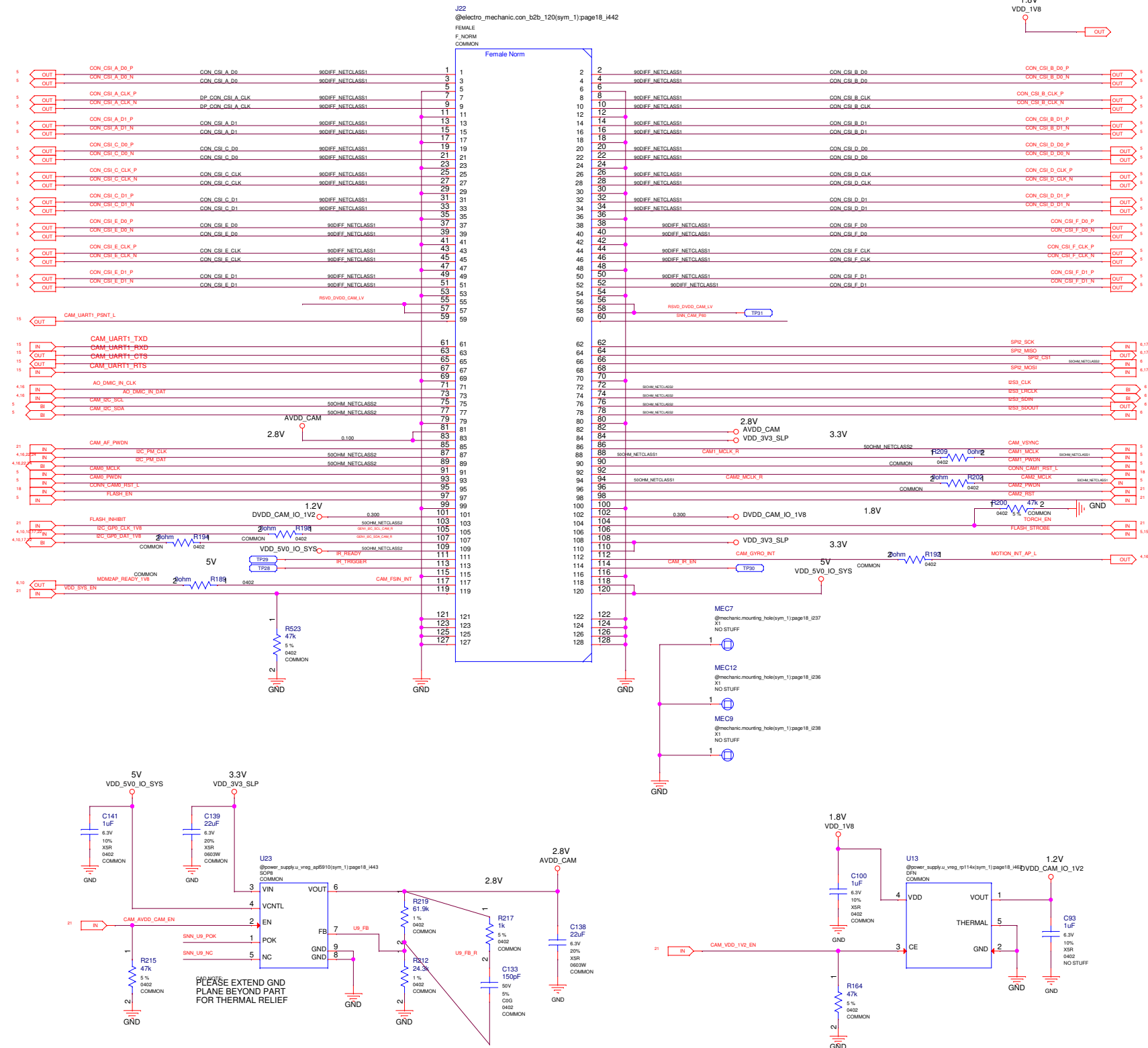


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# Camera Expansion



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A coordinate plane with a horizontal line passing through point B. The line is labeled 'B' at its intersection with the y-axis.

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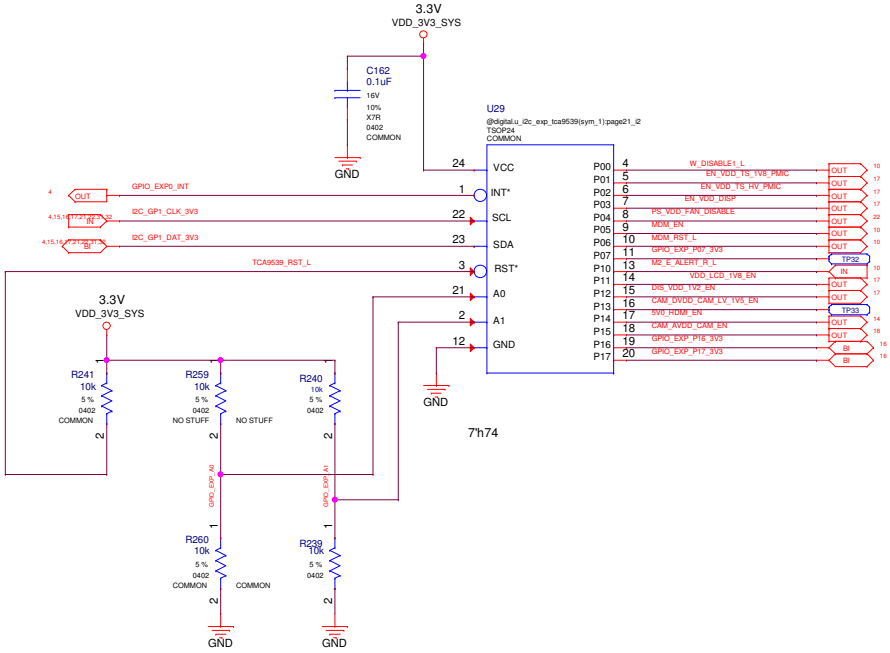
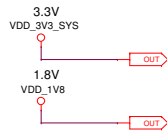
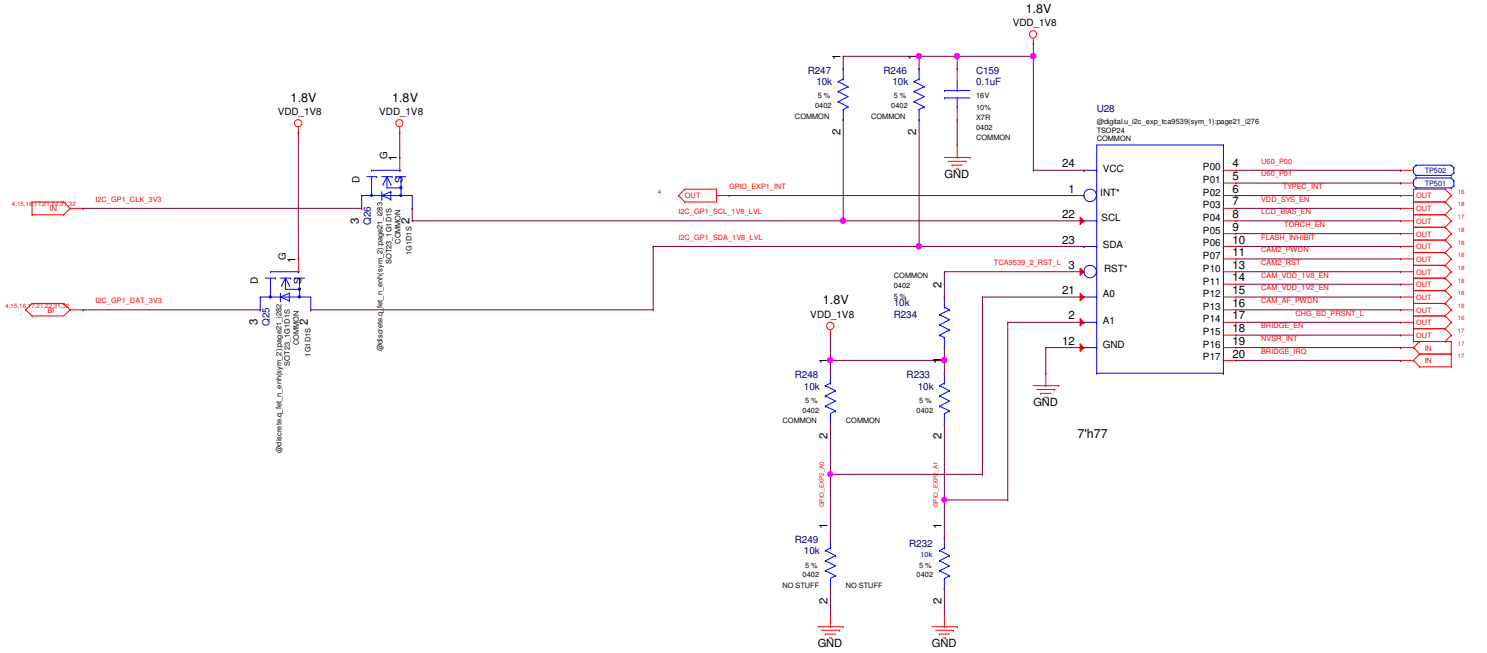
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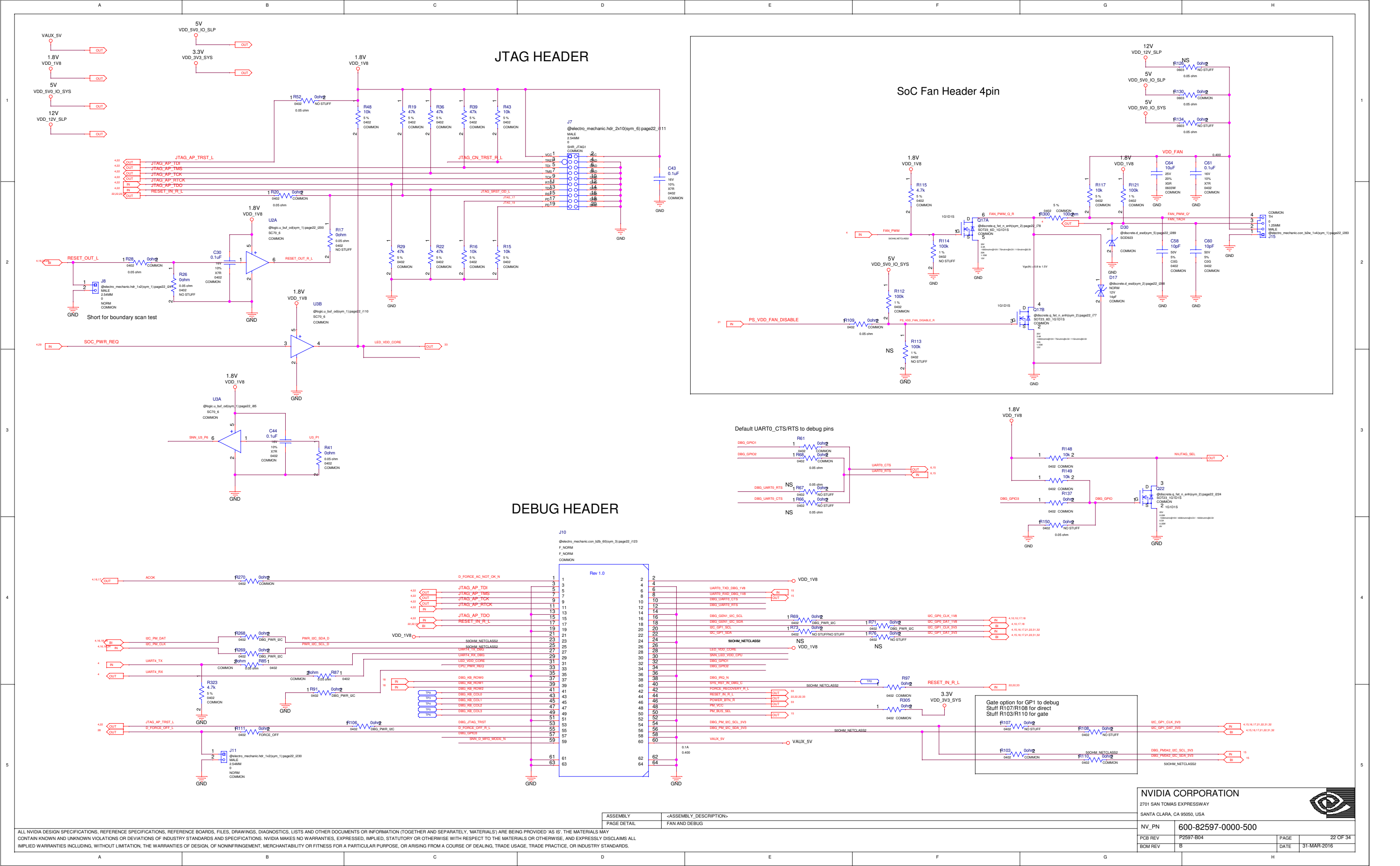


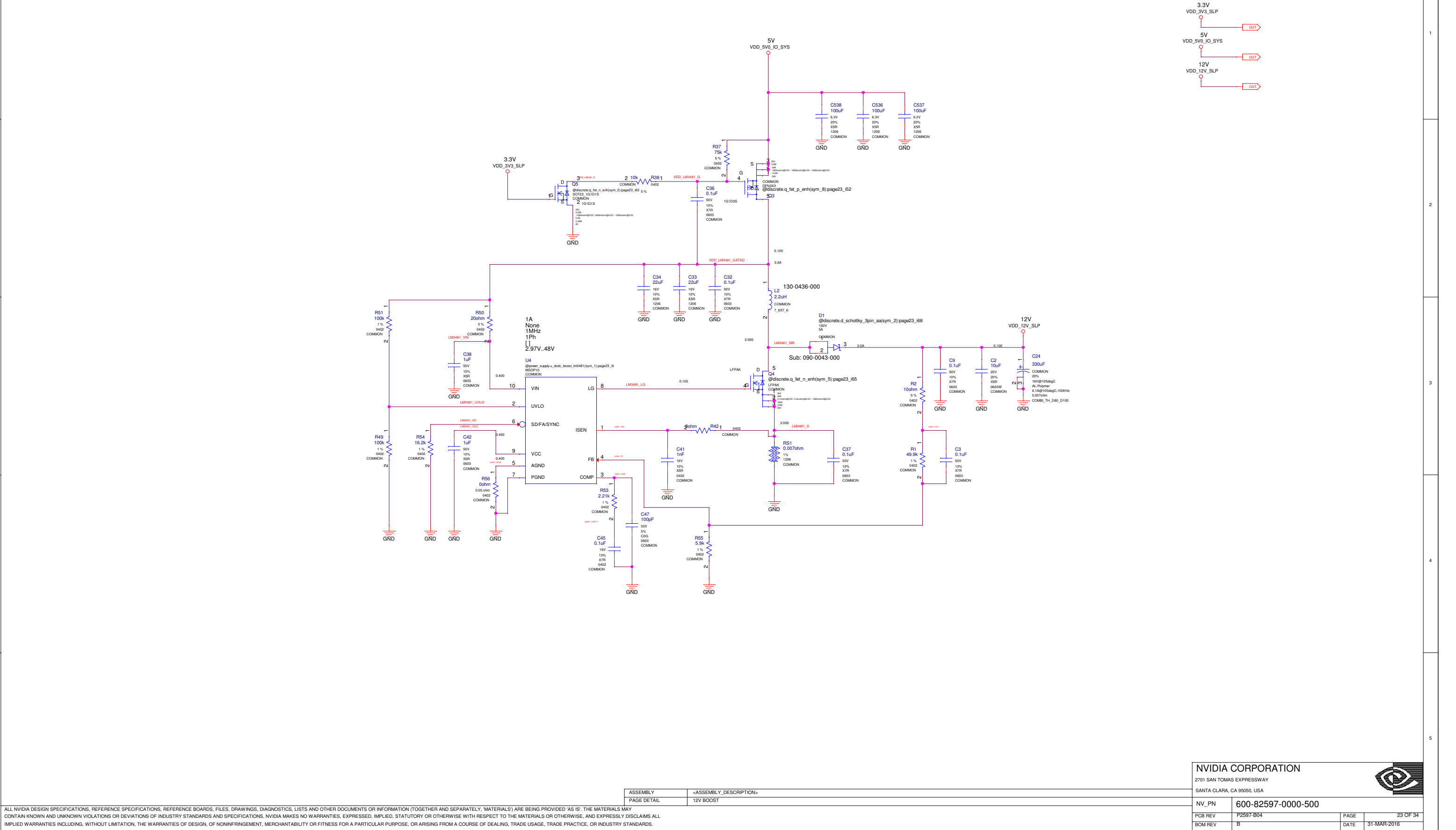
GPIO EXPANDERS



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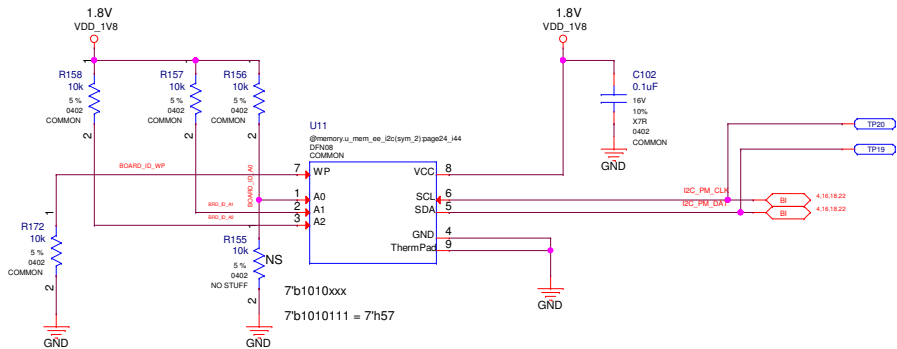
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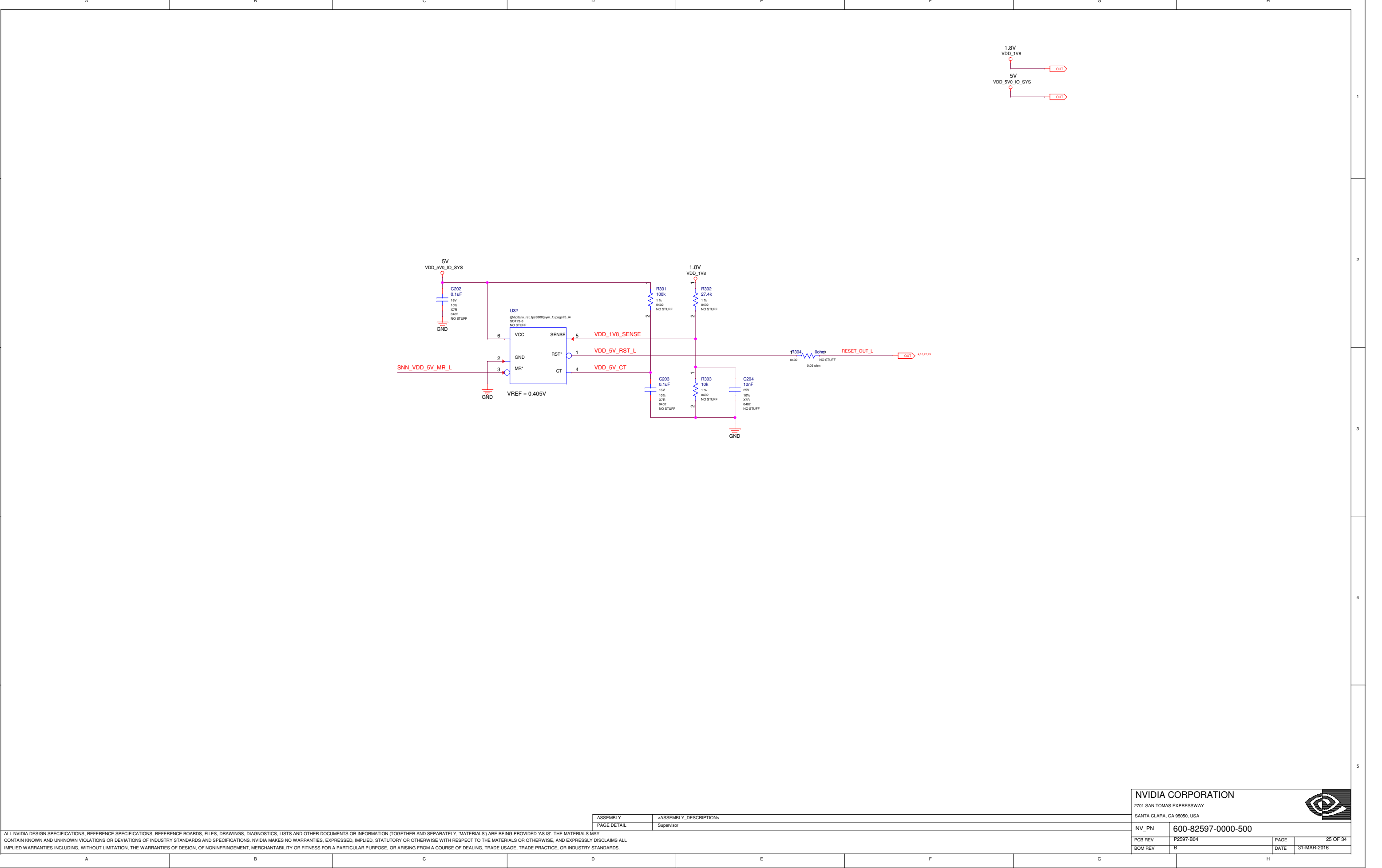


Carrier board config



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PAGE DETAIL	Supervisor

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19V  
VDD\_19V\_CON

19V  
VDD\_19V\_IN

19V  
VDD\_MOD

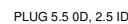
19V  
VDD\_MUX


OUT

OUT

OUT

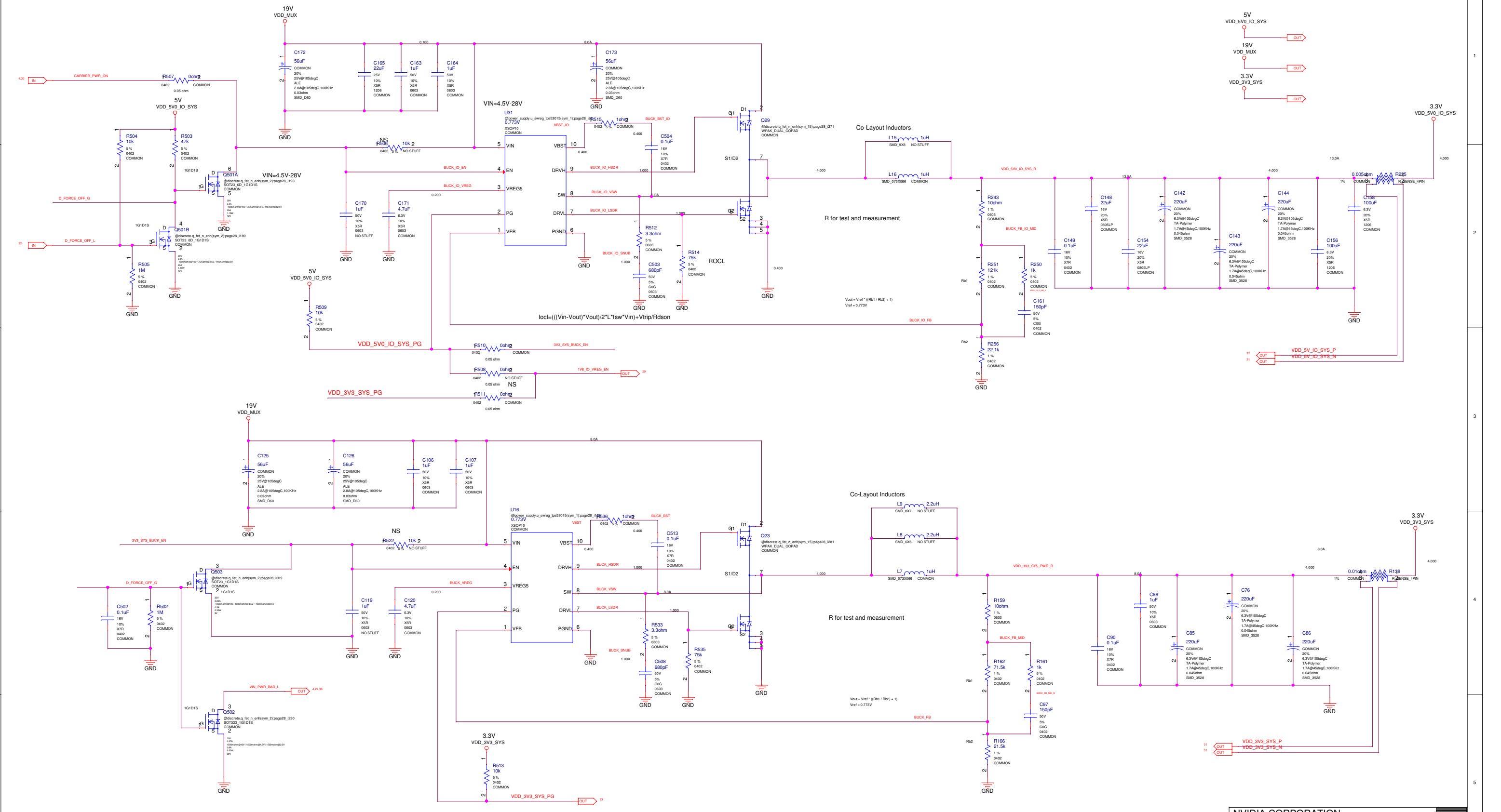
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5V & 3V3 SYS POWER SUPPLIES



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ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	5V & 3V3 Vregs

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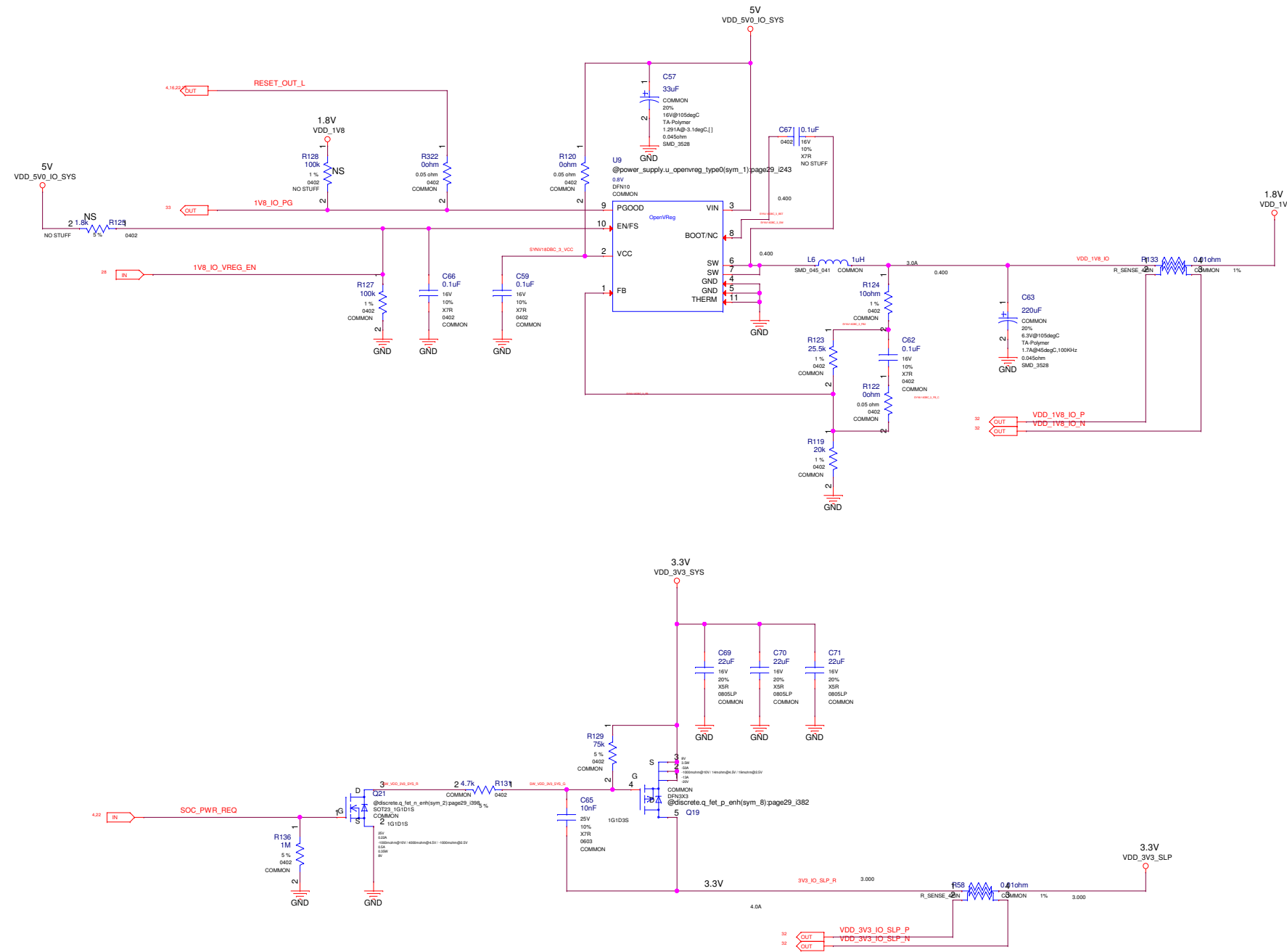
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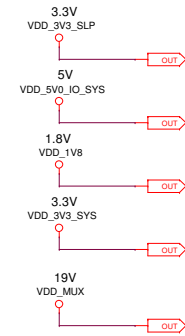
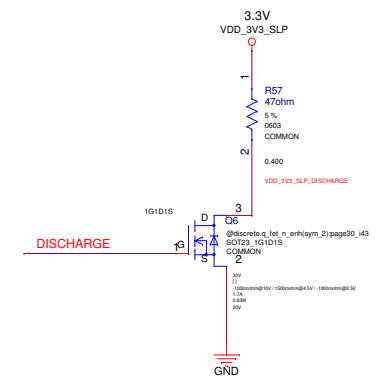
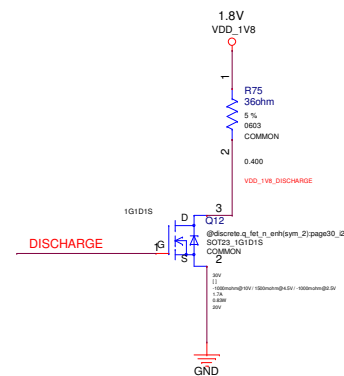
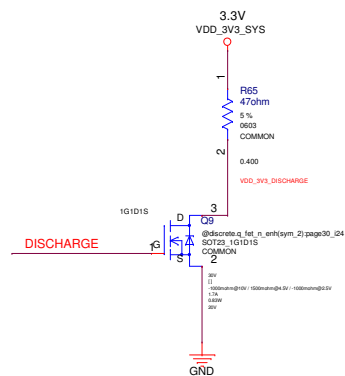
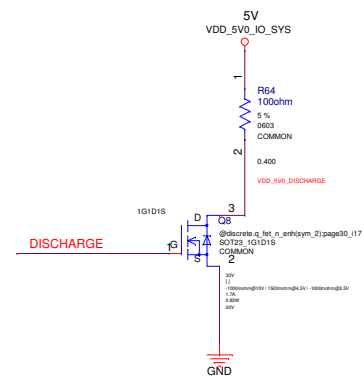
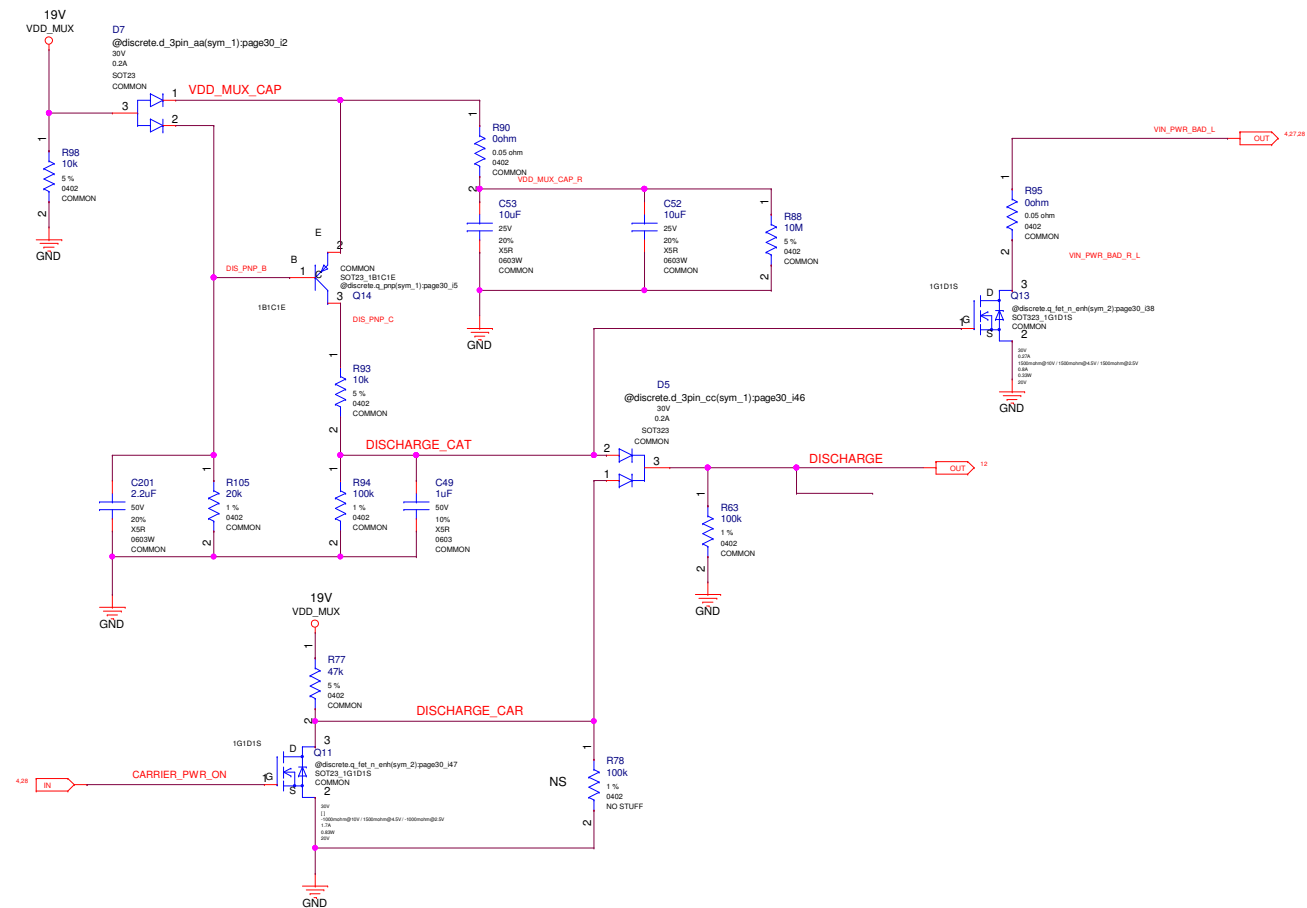


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# RAIL DISCHARGE



ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	Rail Discharge

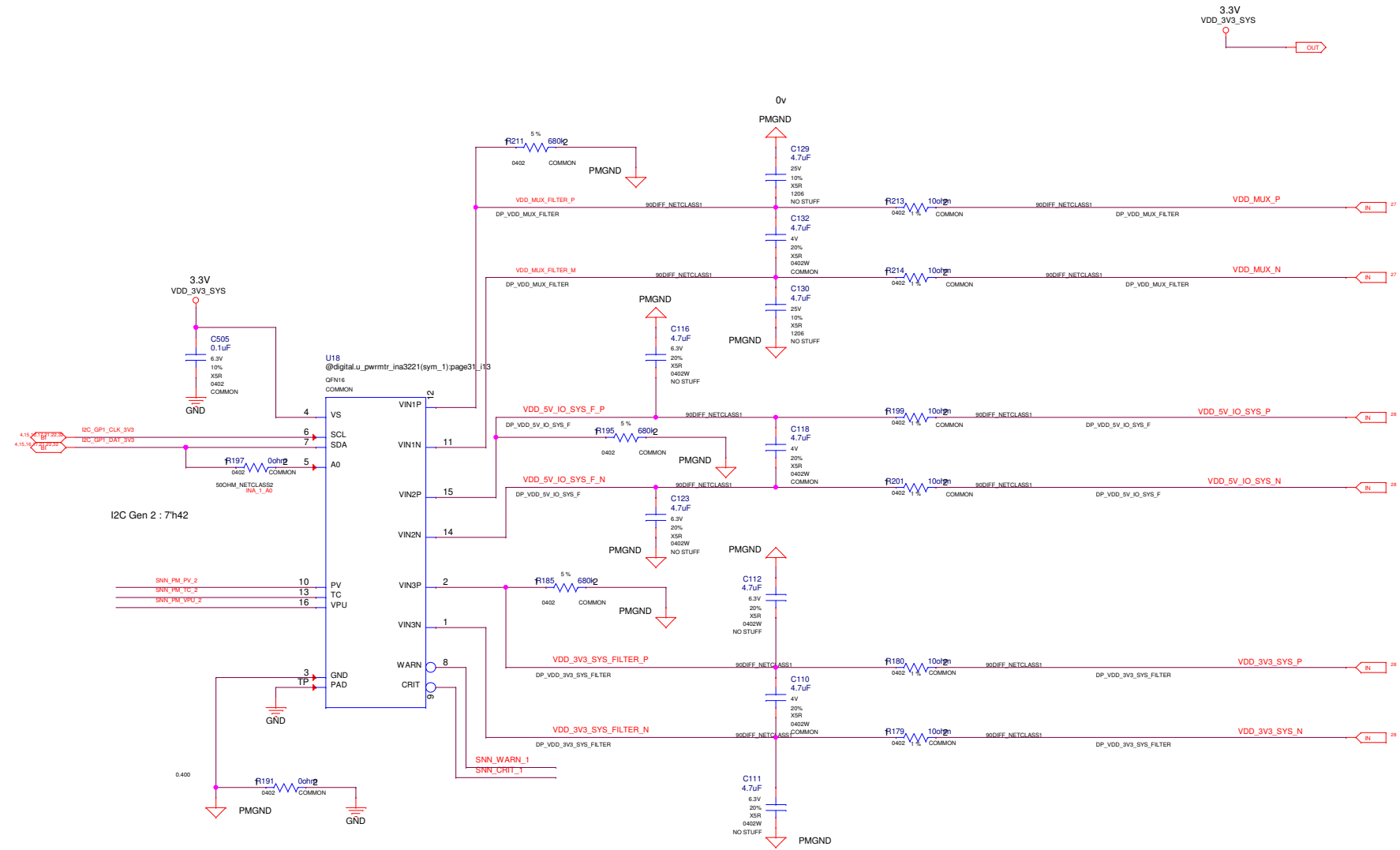
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## POWER MONITORS I



## DC Jack to Carrier Board

## 5V SYSTEM

### 3V3 SYSTEM

ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	Power Monitor I

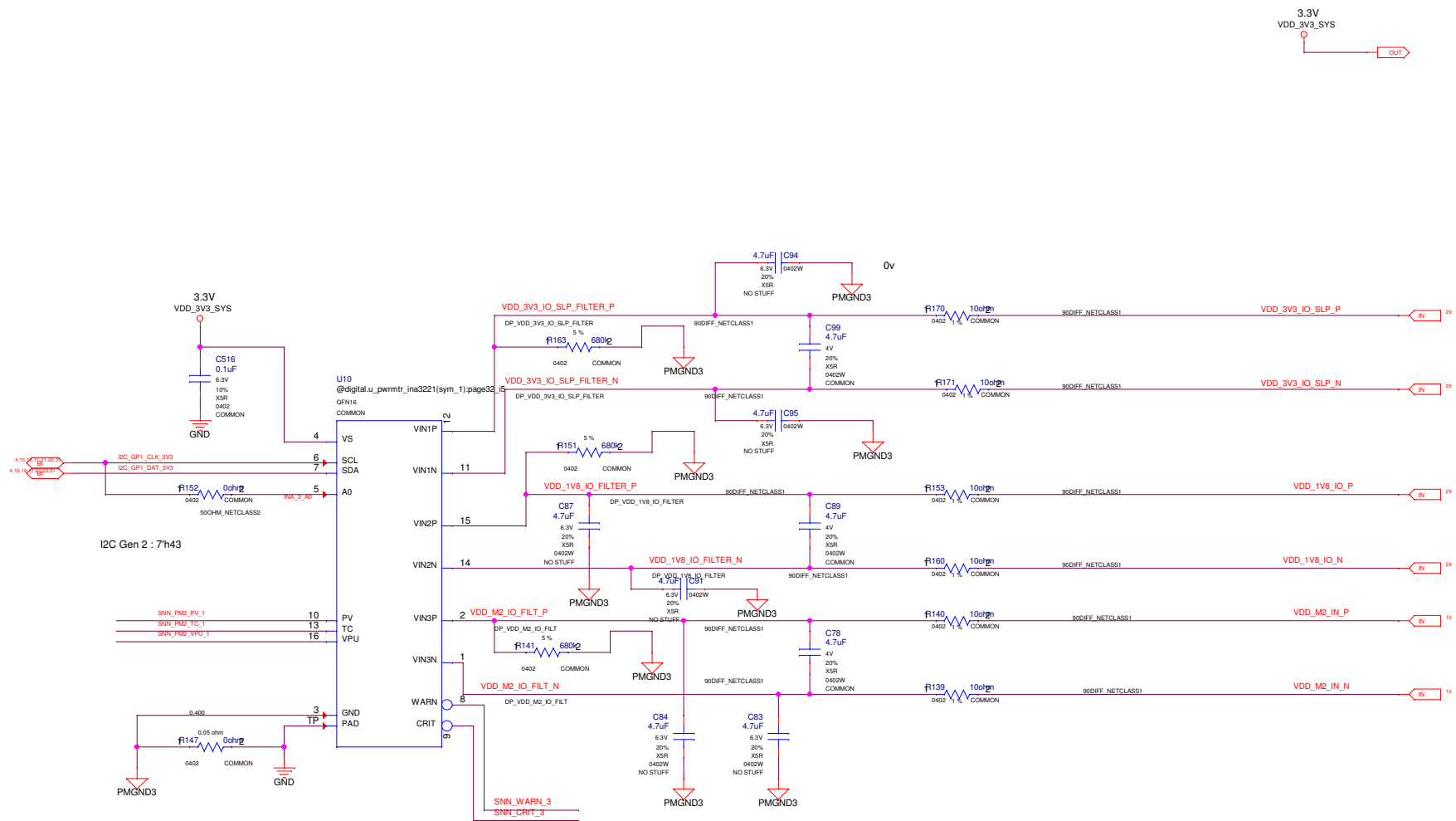
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POWER MONITORS II



3V3 RUN RAIL

1.8V SYSTEM

M.2 3.3V

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ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	Power Monitor II

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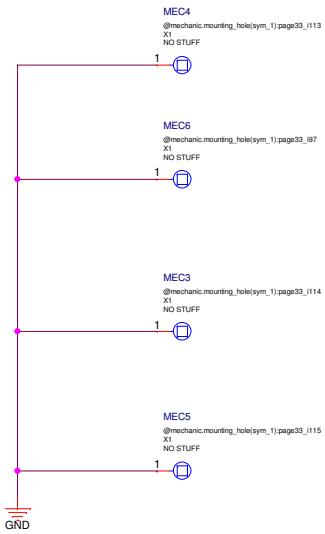
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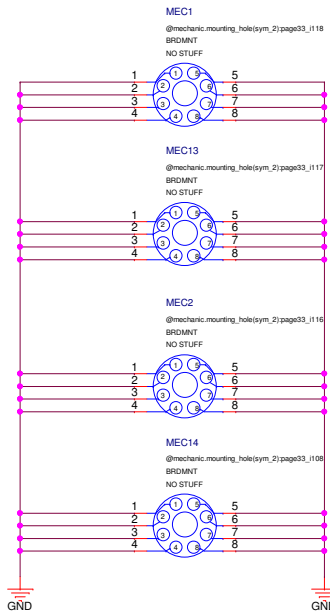
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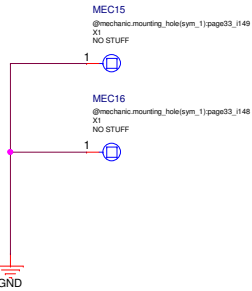
MODULE MOUNTING STANDOFFS



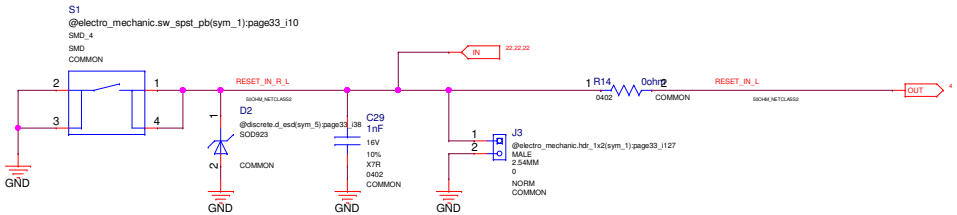
FOUR CORNER  
miniITX MOUNTING HOLES



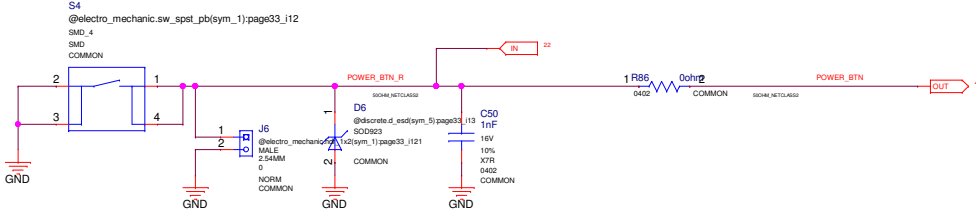
Antenna bracket  
mount



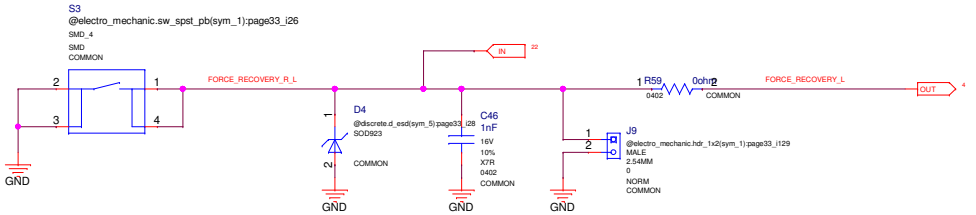
RESET



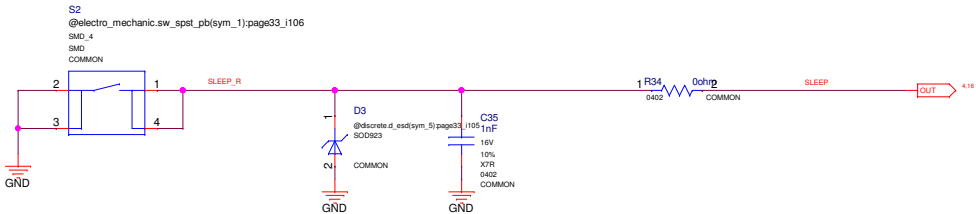
POWER



RECOVERY

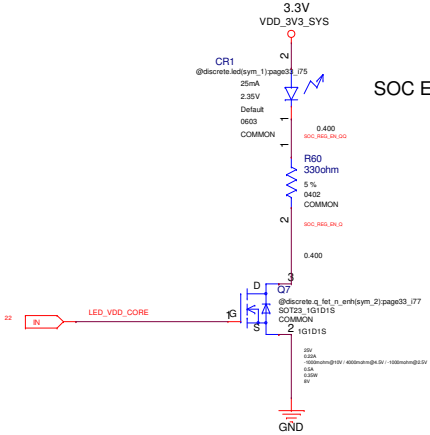


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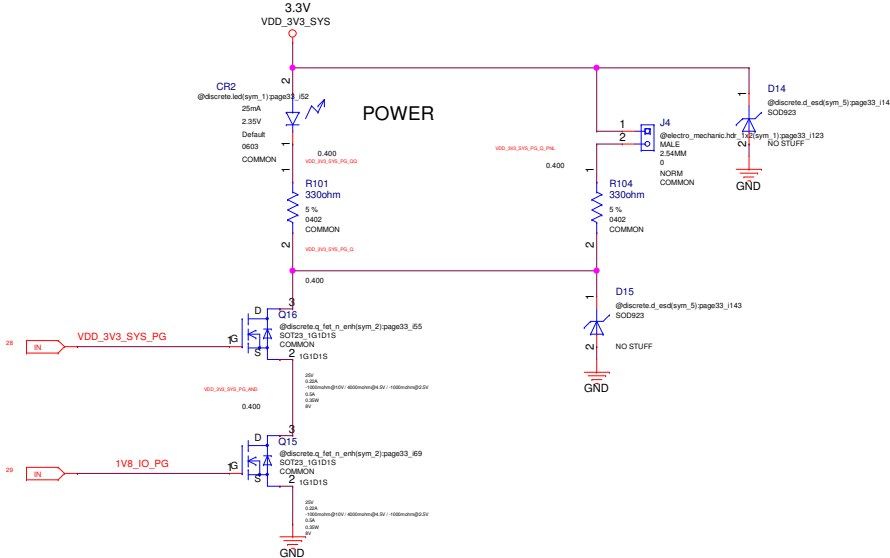


CAD NOTE:  
Please place LEDs near the  
power button in the front  
label slik per text below

SOC EN



POWER



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# Revision History

## P2597-B03

Page 4: Added a red LED to indicate power is active on the Jetson TX1/TX2  
Page 8: Replaced U21 due to EOL on previous part  
Page 9: Changed an unused pull up to a TVS device on PCIe RST  
PCIE\_WAKE\_L and PCIE\_CLKREQ  
Page 10: Change R524 and R538 to 1.8k (tune for gyro bypass)  
Page 10: Changed M.2 I2C to 1.8v  
Page 12: Added discharge for VDD\_5V0\_IO\_SLP and VDD\_12V\_SLP  
Added a red LED to 12v at PCIe connector  
Changed DEV\_SLP buffer to OD  
Page 13: Changed R9 to 100pF cap C205 (EU emissions)  
Page 14: Changed R548 to 4.7k ohm and R544 to 100k  
Page 15: Changed DBG I2C MUX to I2C repeater with enable  
Added pull ups on inputs to U6  
Page 16: Added 1206 0ohm resistors on J26  
Added pull downs on J21 side of U22 and U7  
Added reset connection to U22 and U7  
Added ESD protection  
Page 22: Added pull-up on J10 pin 48 for direct INA support  
Added 0ohm resistor on the fan PWM to allow always on  
Added a pull down on UART4\_TX  
Added ESD protection to pins 4 and 6 of Q17  
Page 24: Changed U11 EEPROM to AT24C02D-MAHM-T  
Page 25: Added supervisor to hold Tegra in reset until 1.8v up  
Page 27: Added additional bulk site on VDD\_MOD  
Page 28: Changed 5v and 3.3v VR FETs for better thermal perf  
Page 30: Added C201 and changed C49 to 1uF to filter DC loss  
Page 33: Added ESD option for power LED

## P2597-B04

Corrected minor solderpaste issue

Page 12: Stuffed R315  
Page 14: Changed R563 and R565 to 3.3ohm  
Page 25: Unstuffed page

## BOM rev B

Page 23: Changed C36 to 0.1uF  
Page 30: Changed C201 to 2.2uF and R105 to 20k

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