

P2597-C02

Jetson TX1/TX2 Developer Kit Carrier Board
Supports Jetson TX1/TX2/TX2i

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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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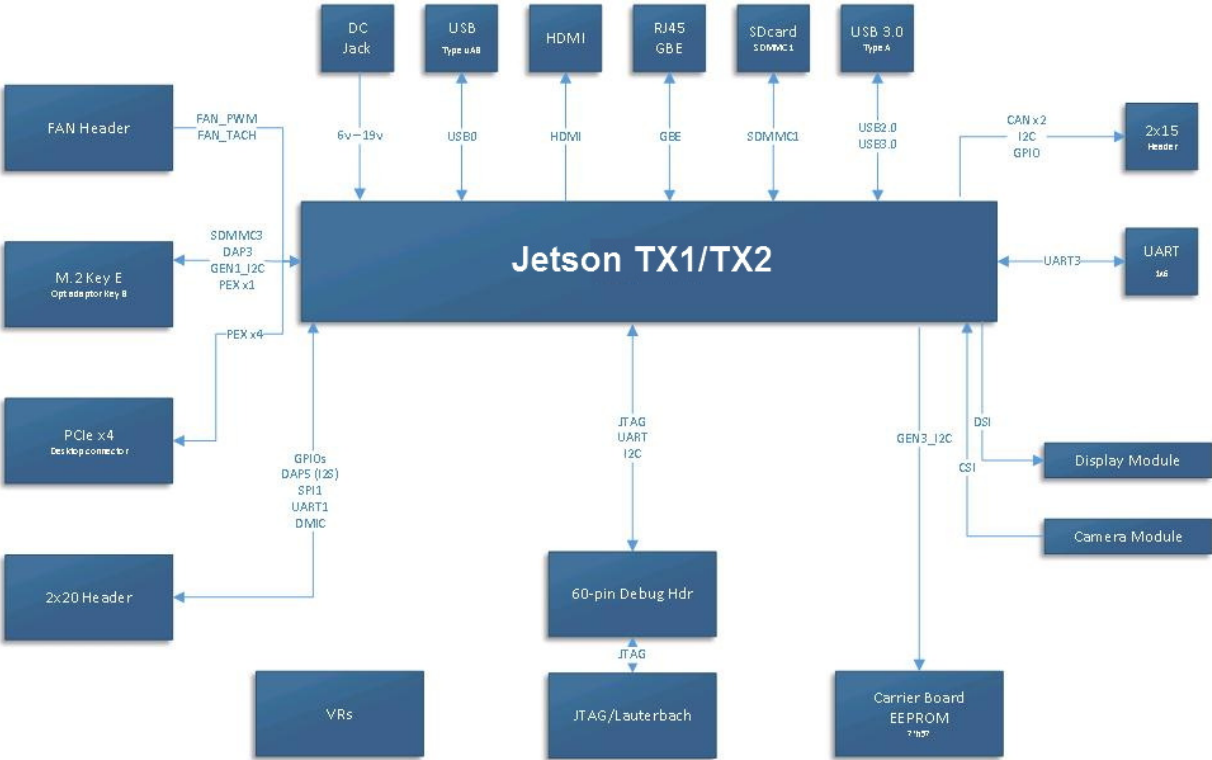
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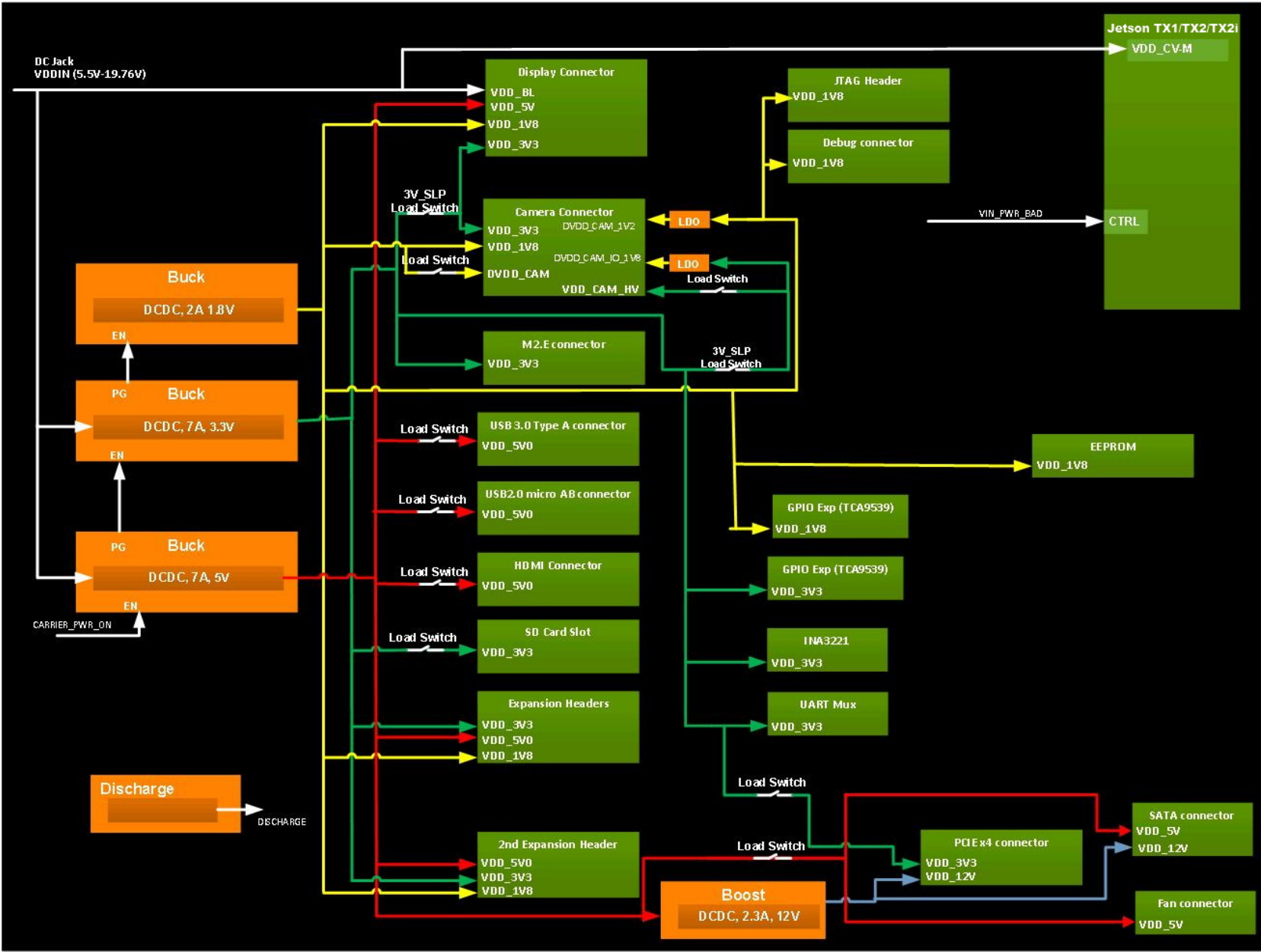




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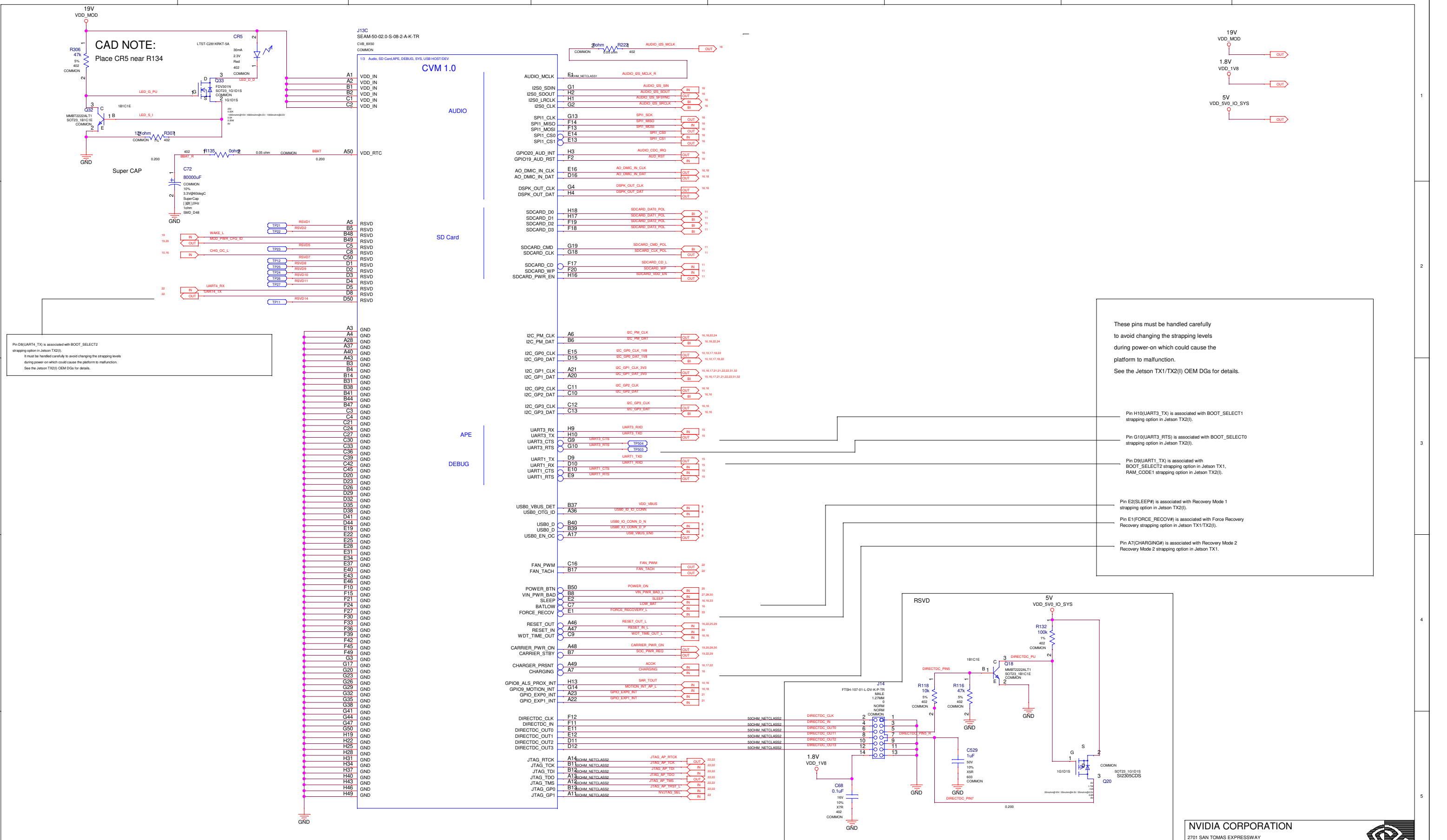
Power Tree



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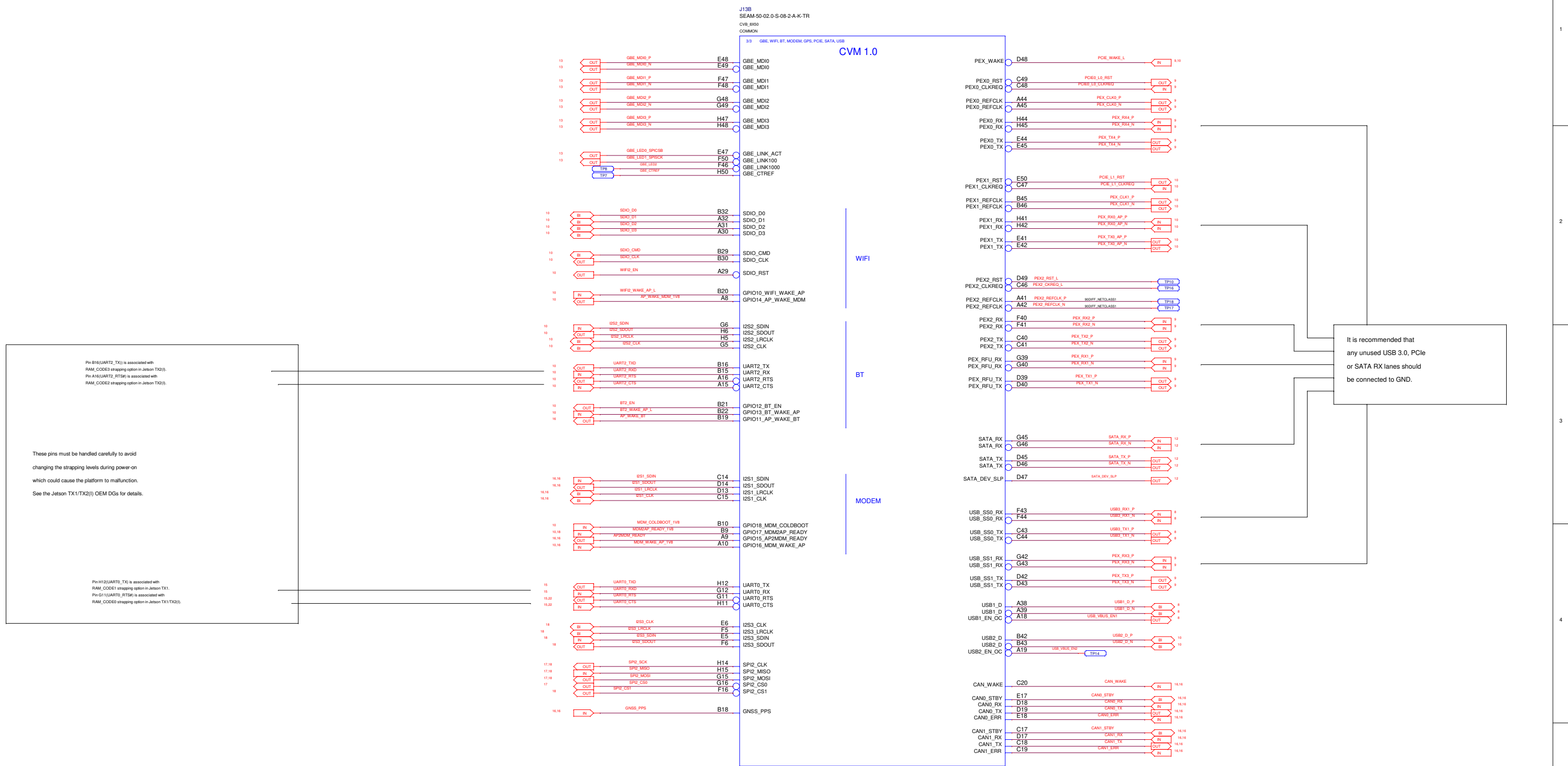
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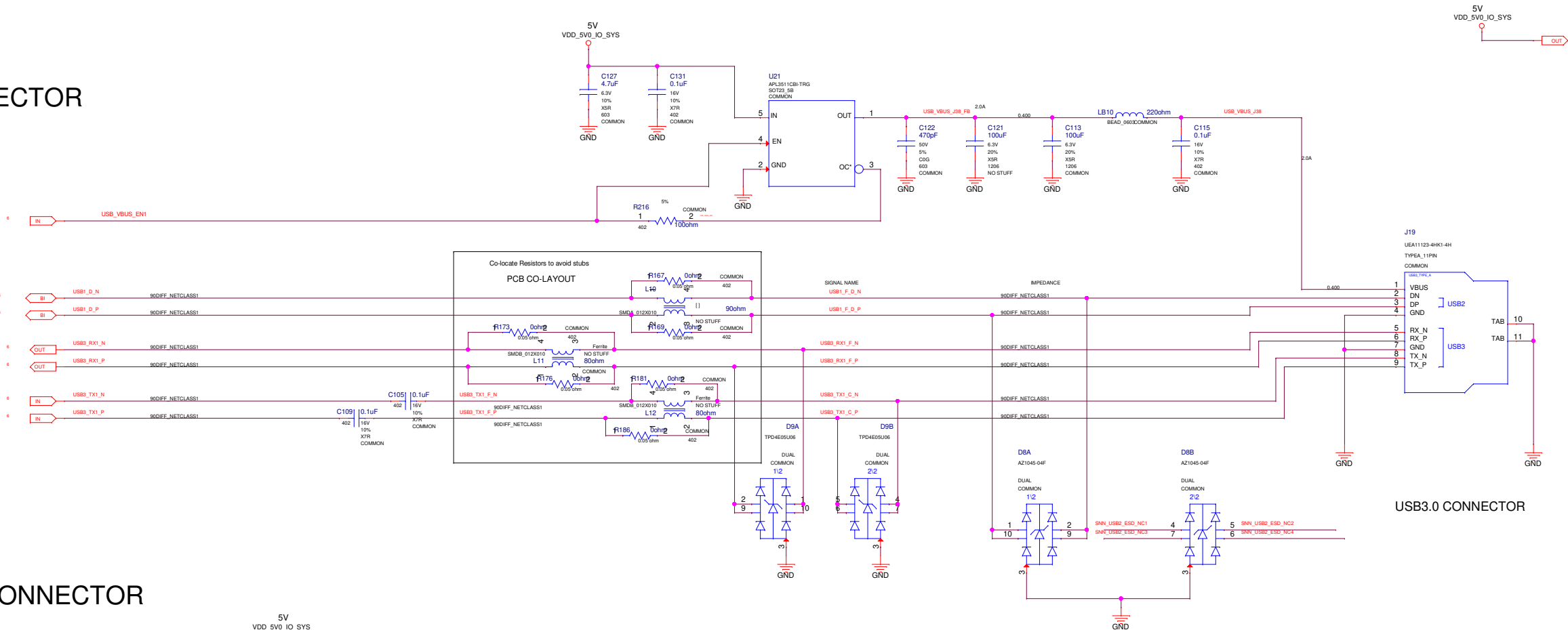
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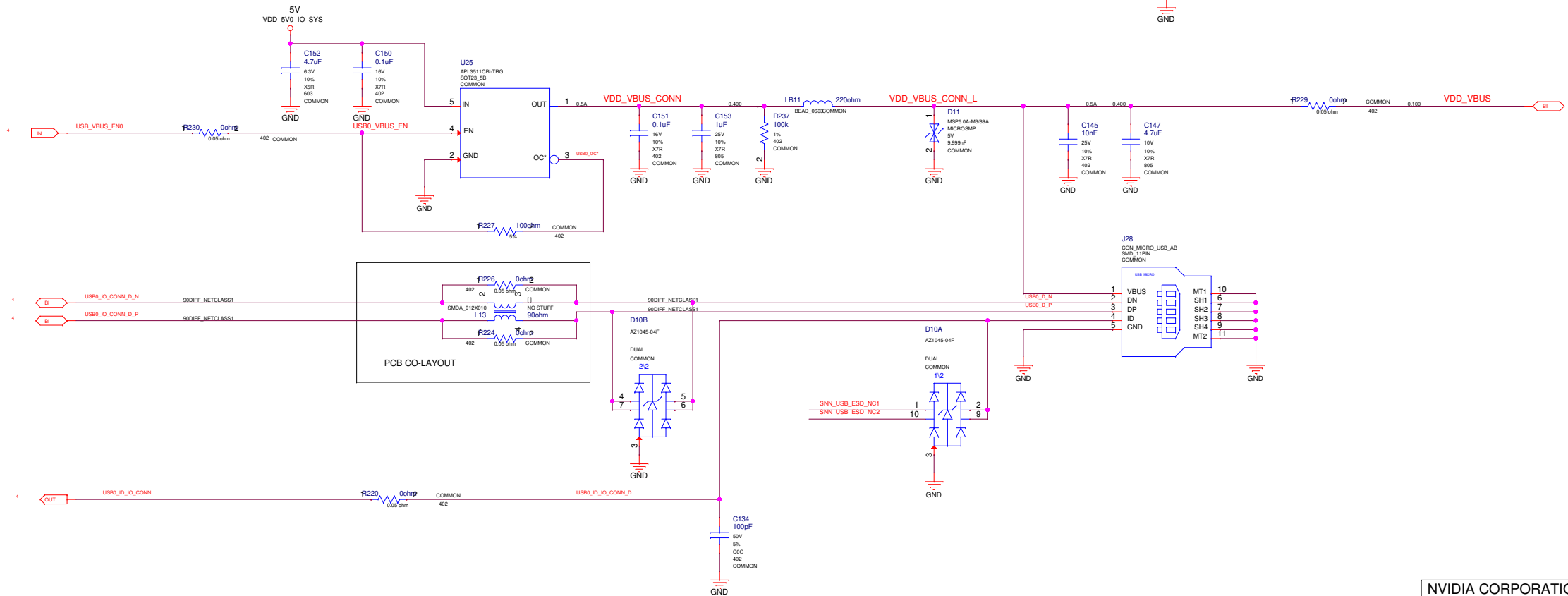
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USB 3.0 TYPE A CONNECTOR



MICRO AB USB 2.0 CONNECTOR

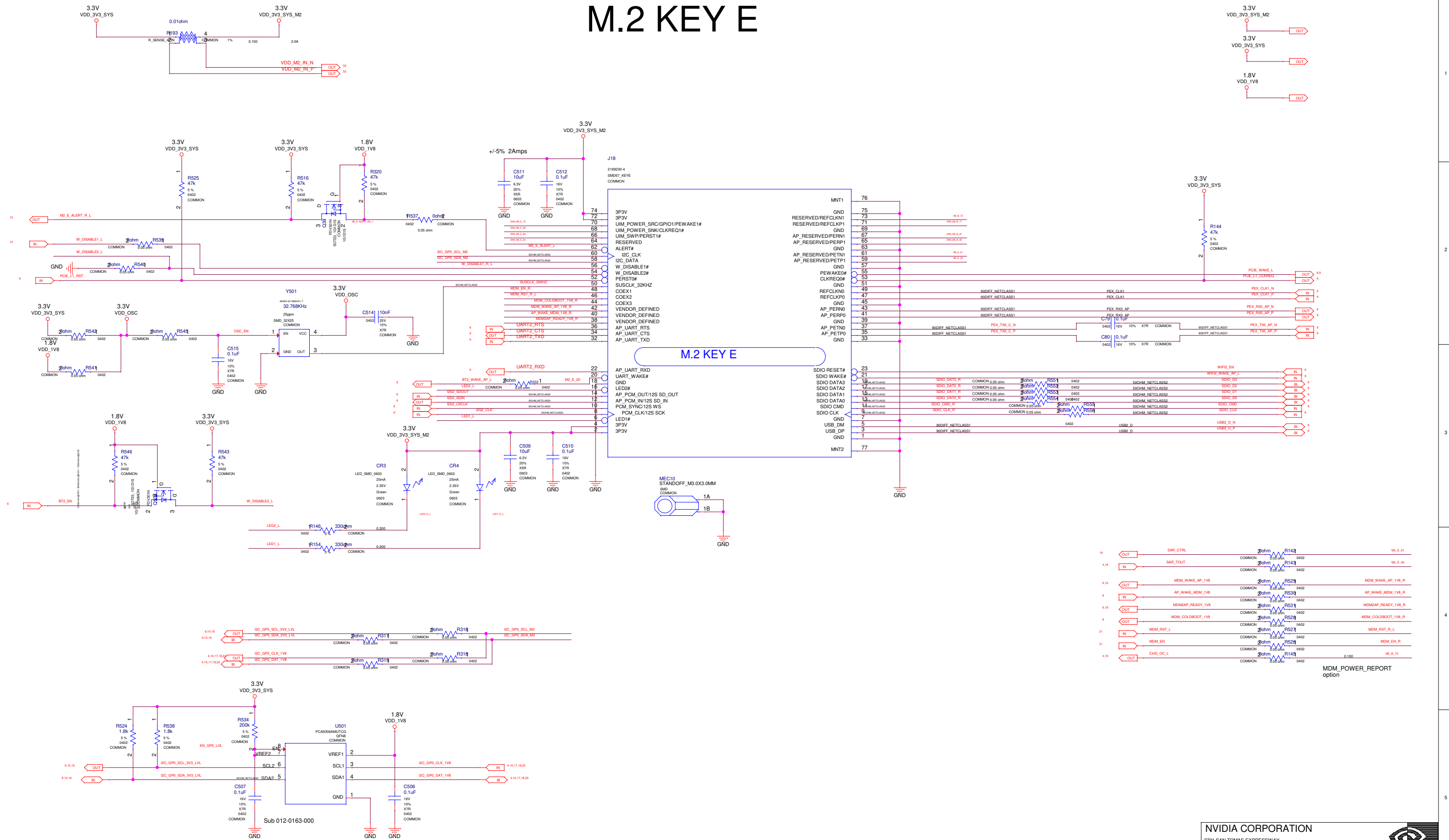


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M.2 KEY E



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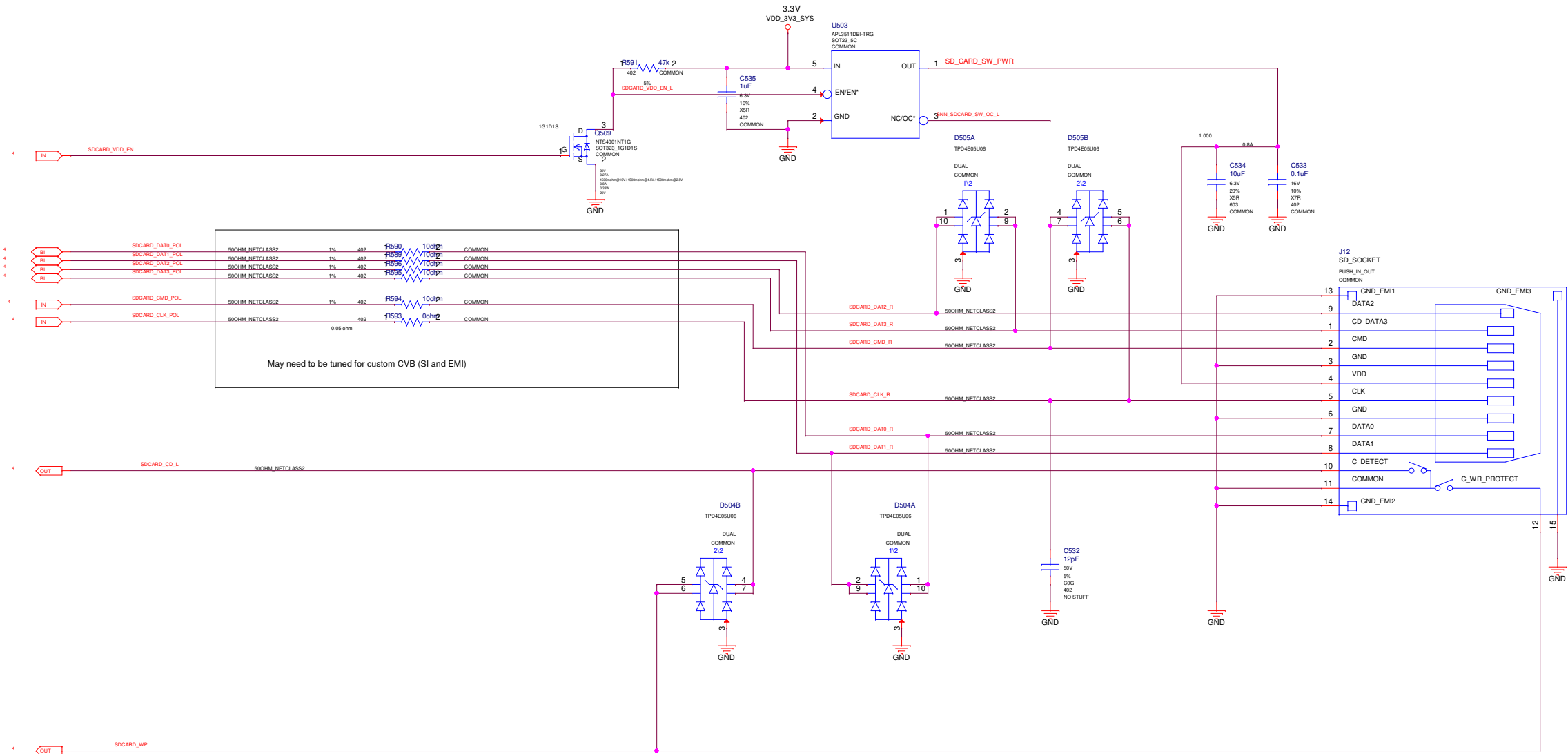
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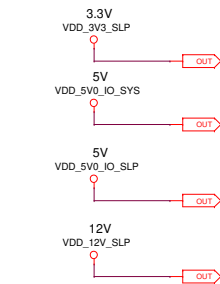
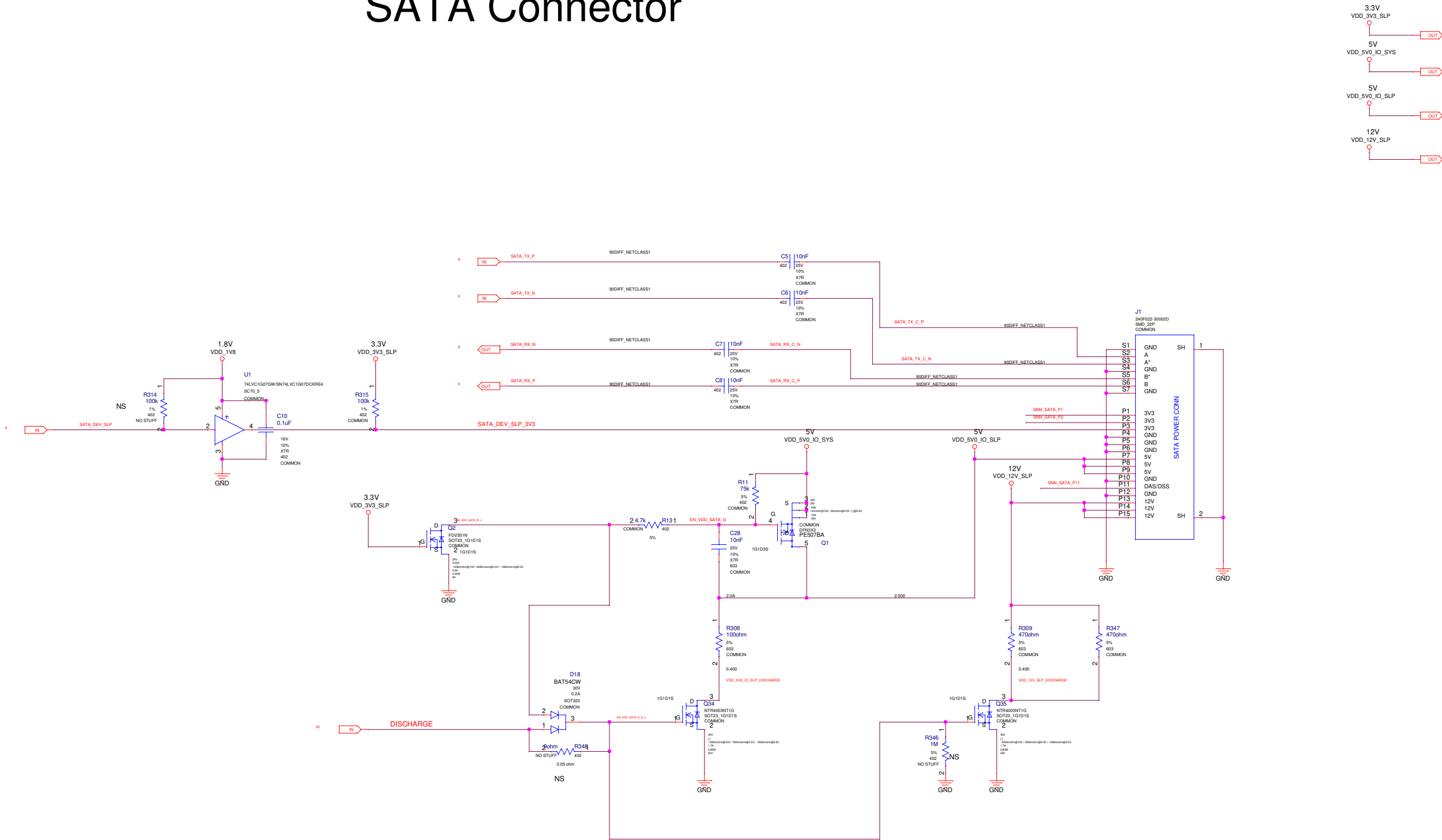
SD CARD SOCKET



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SATA Connector

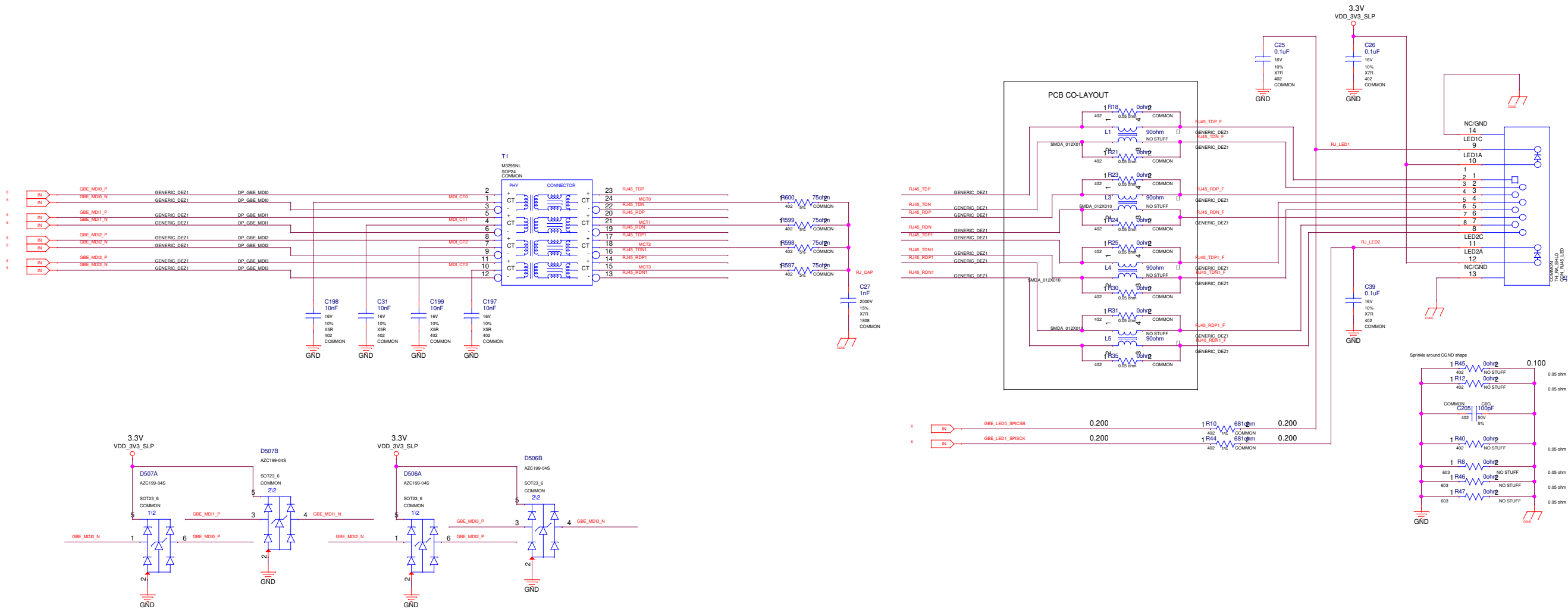


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Gigabit Ethernet

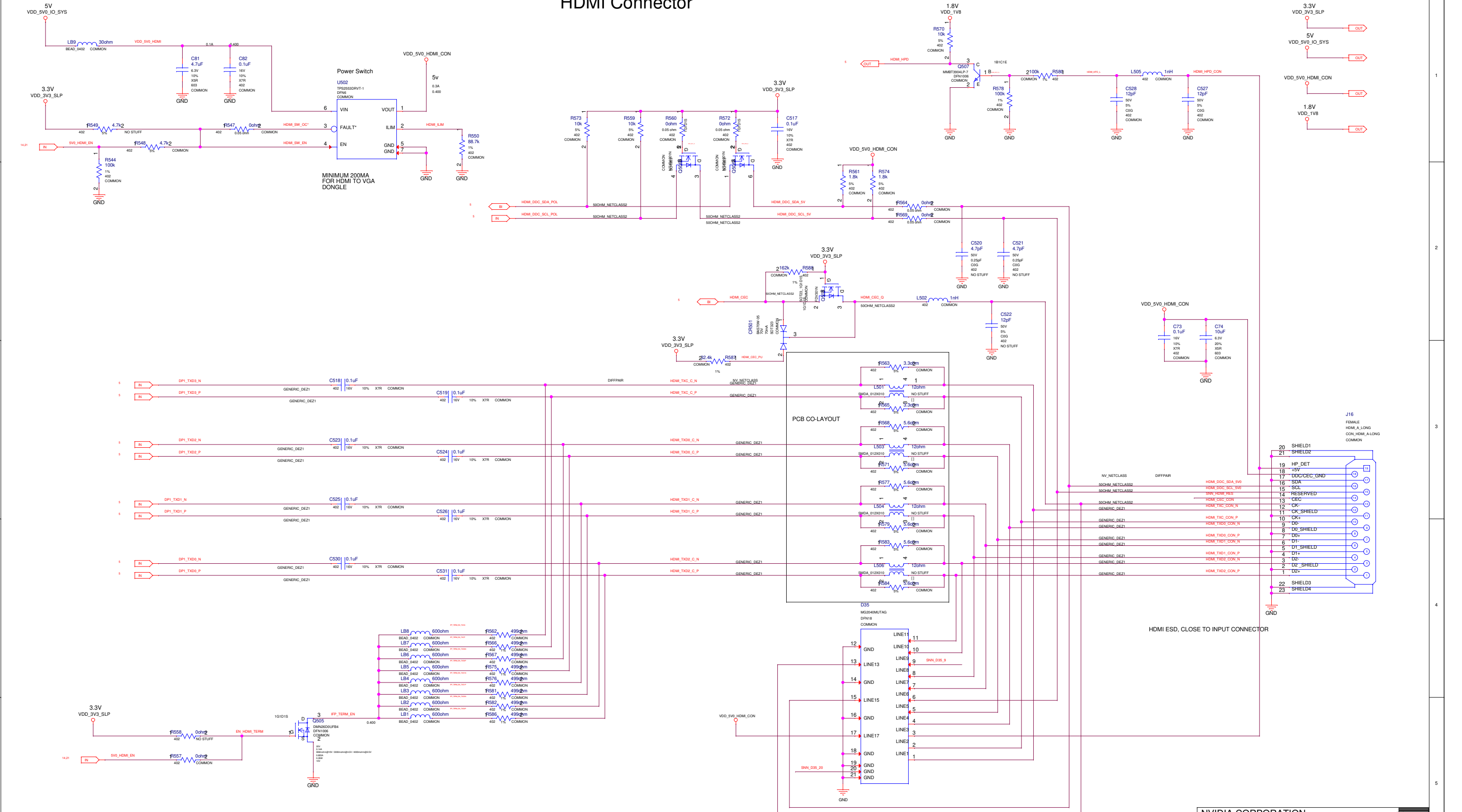


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HDMI Connector



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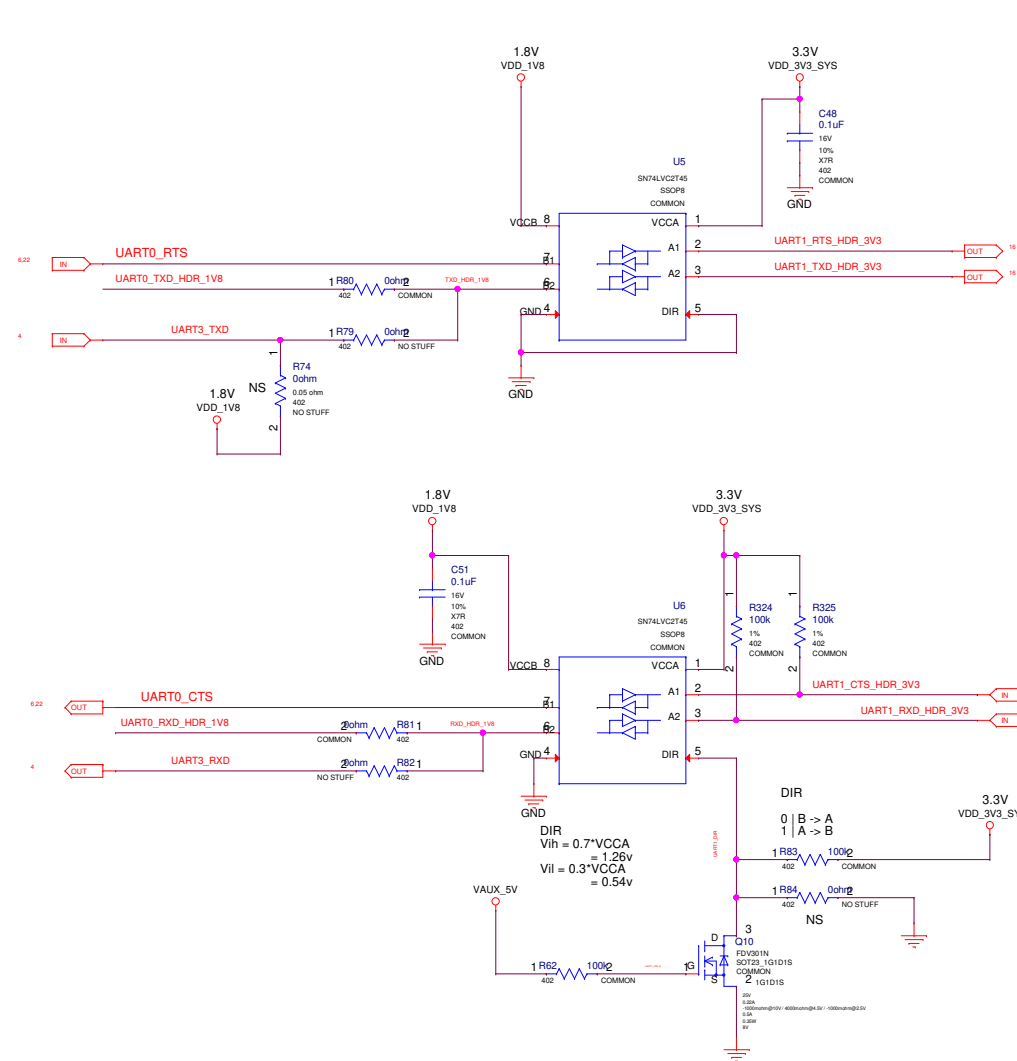
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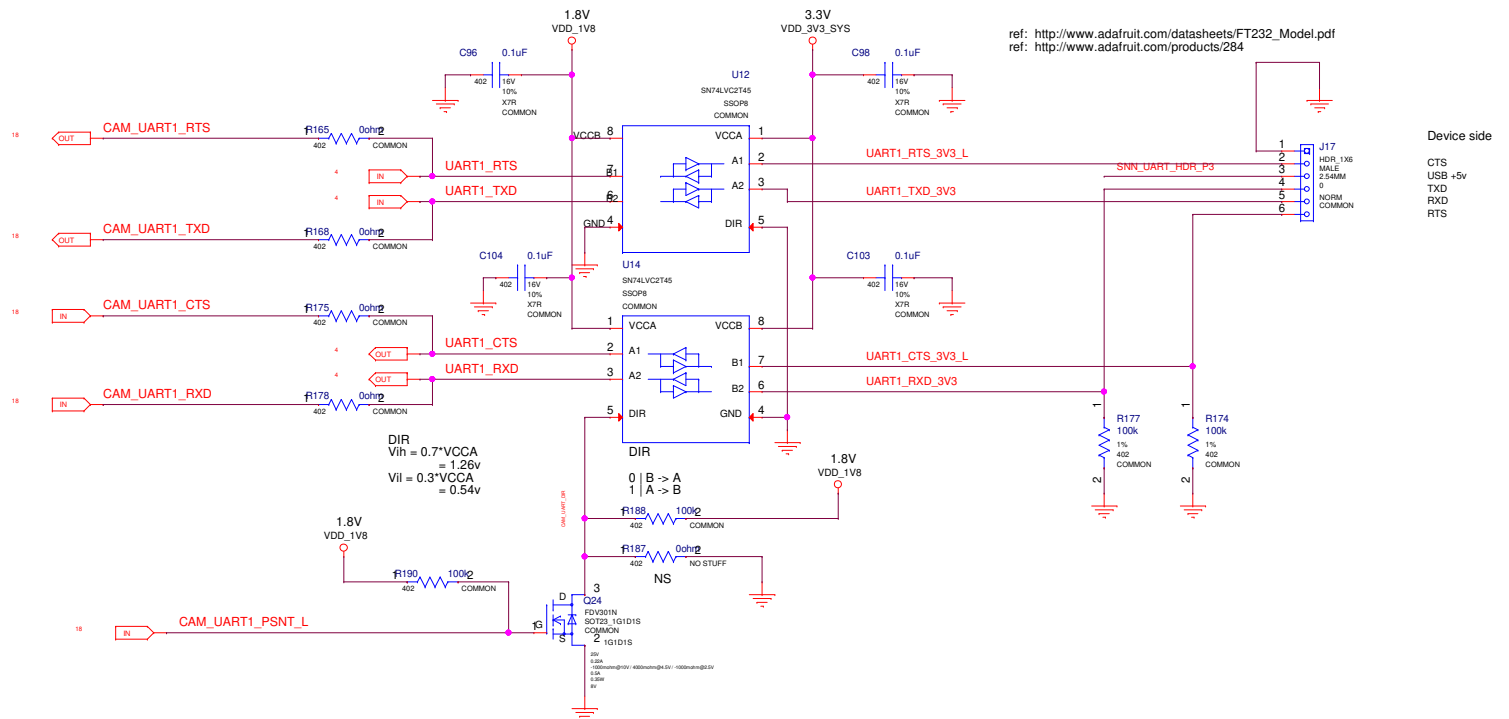
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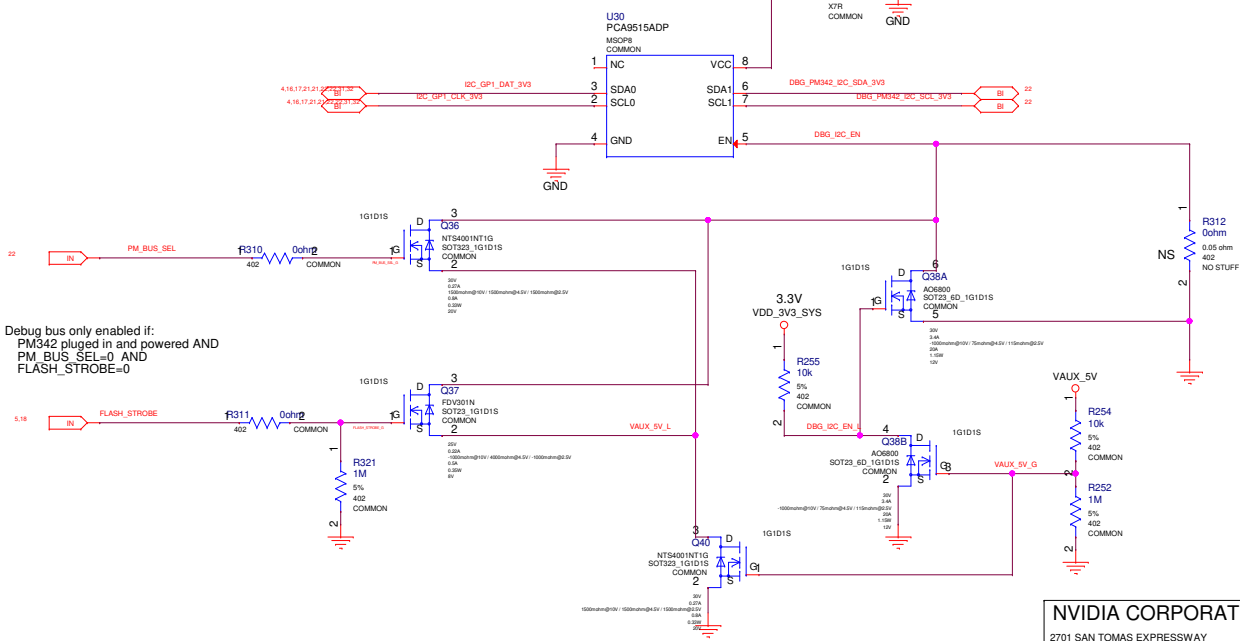




SERIAL PORT



DBG I2C GATE

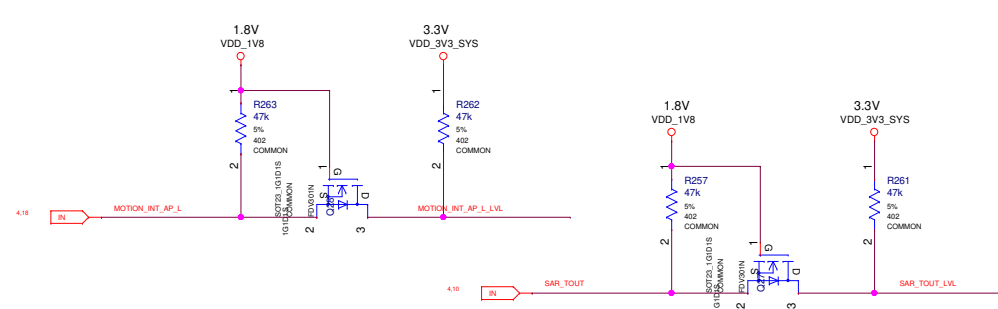
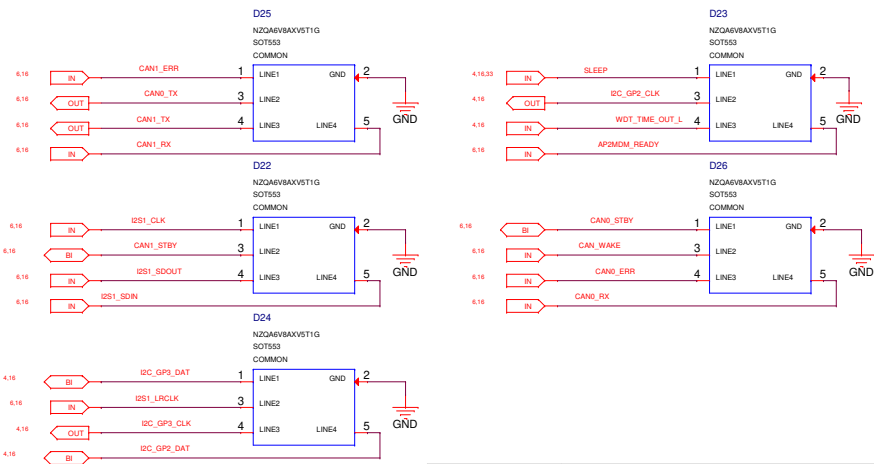
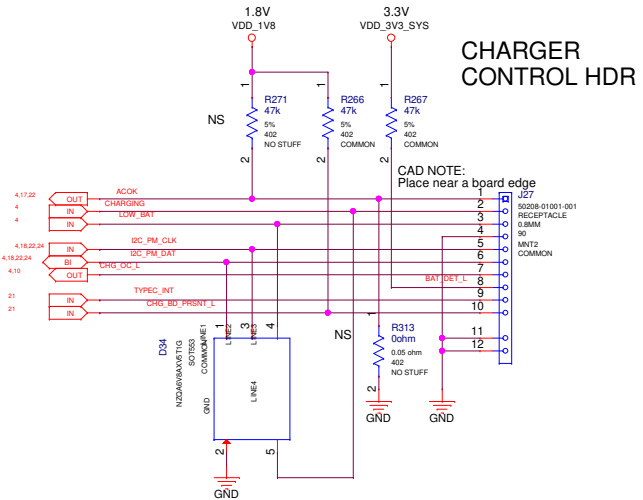
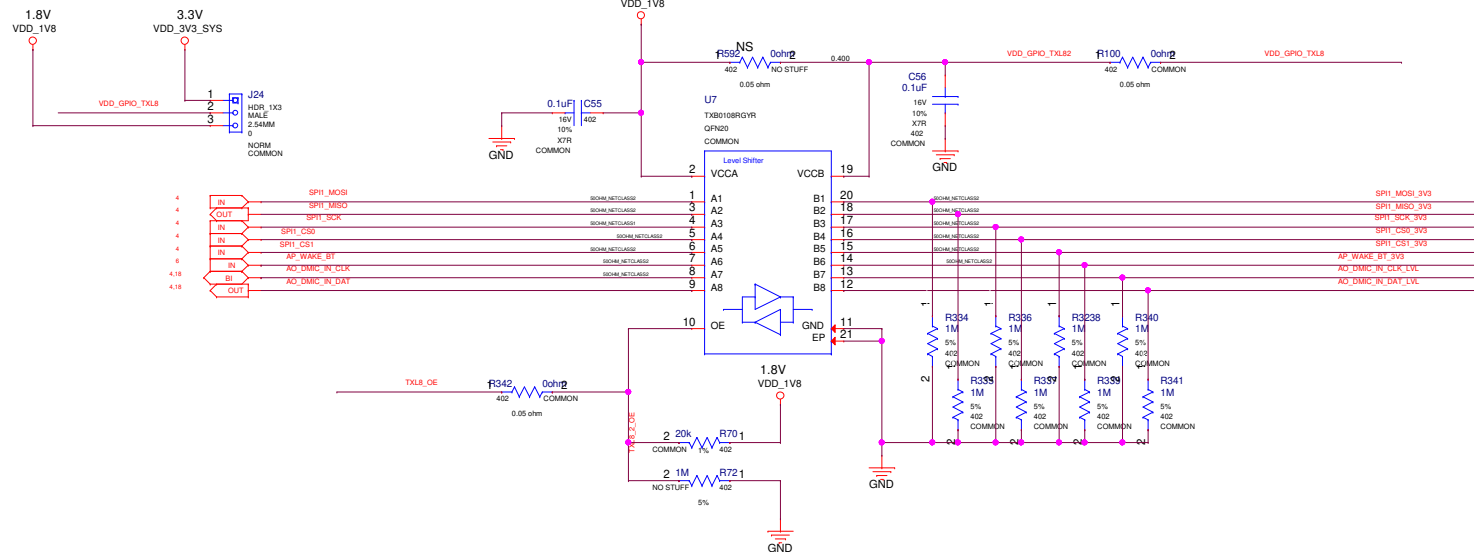
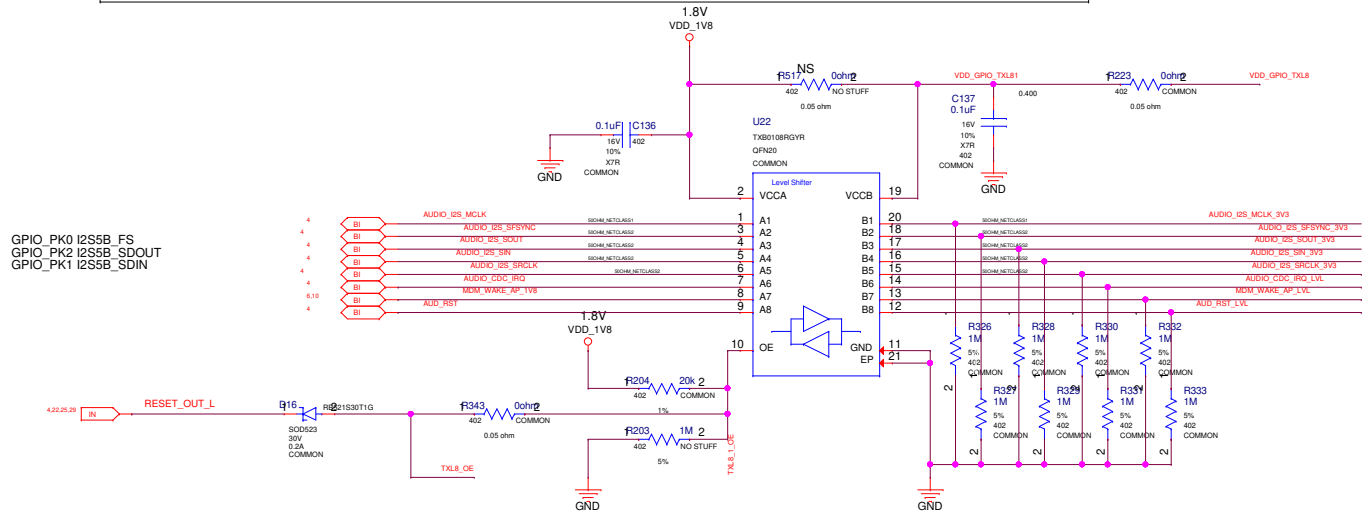
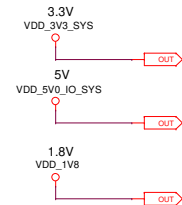
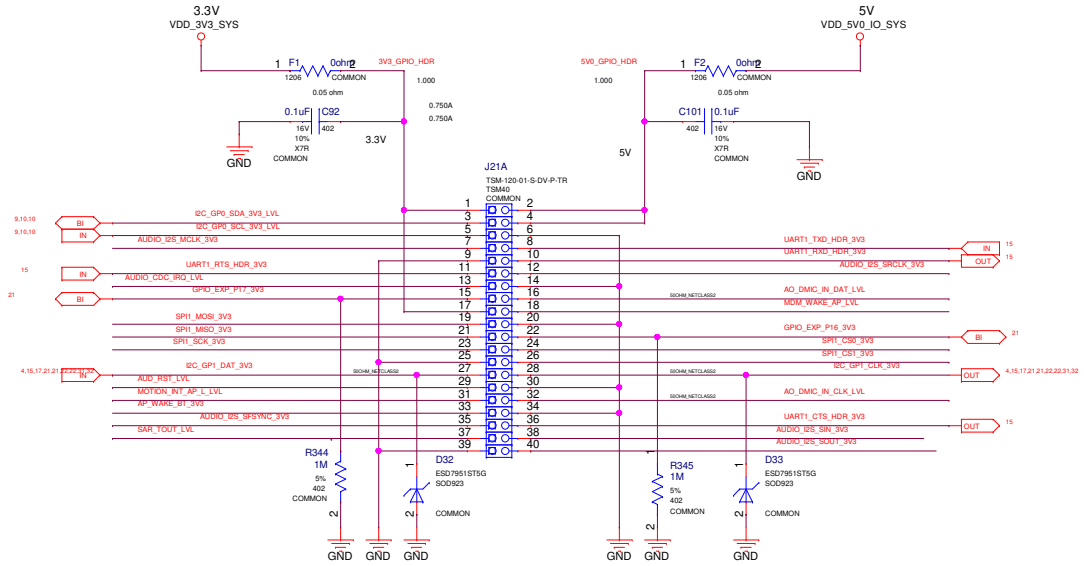
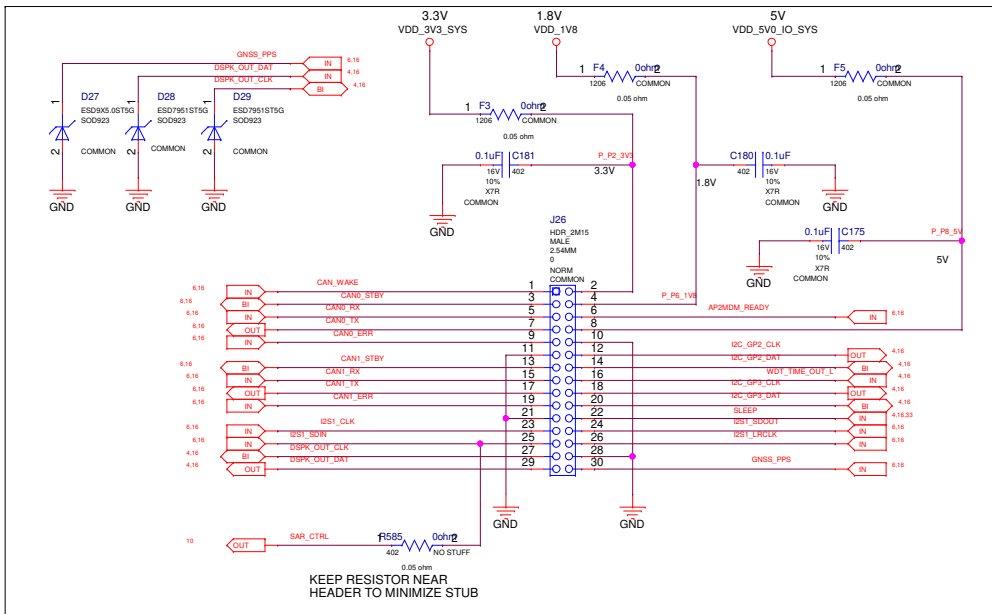


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ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	Serial port and JTAG

GPIO Expansion Headers



CHARGER CONTROL HDR

CAD NOTE:
Place near a board edge

Place near a board edge

ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	IO Expansion Connector

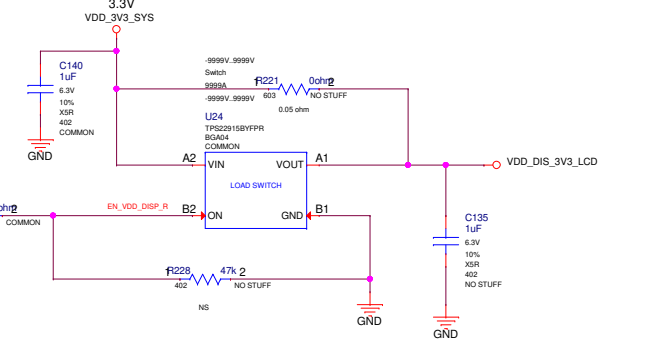
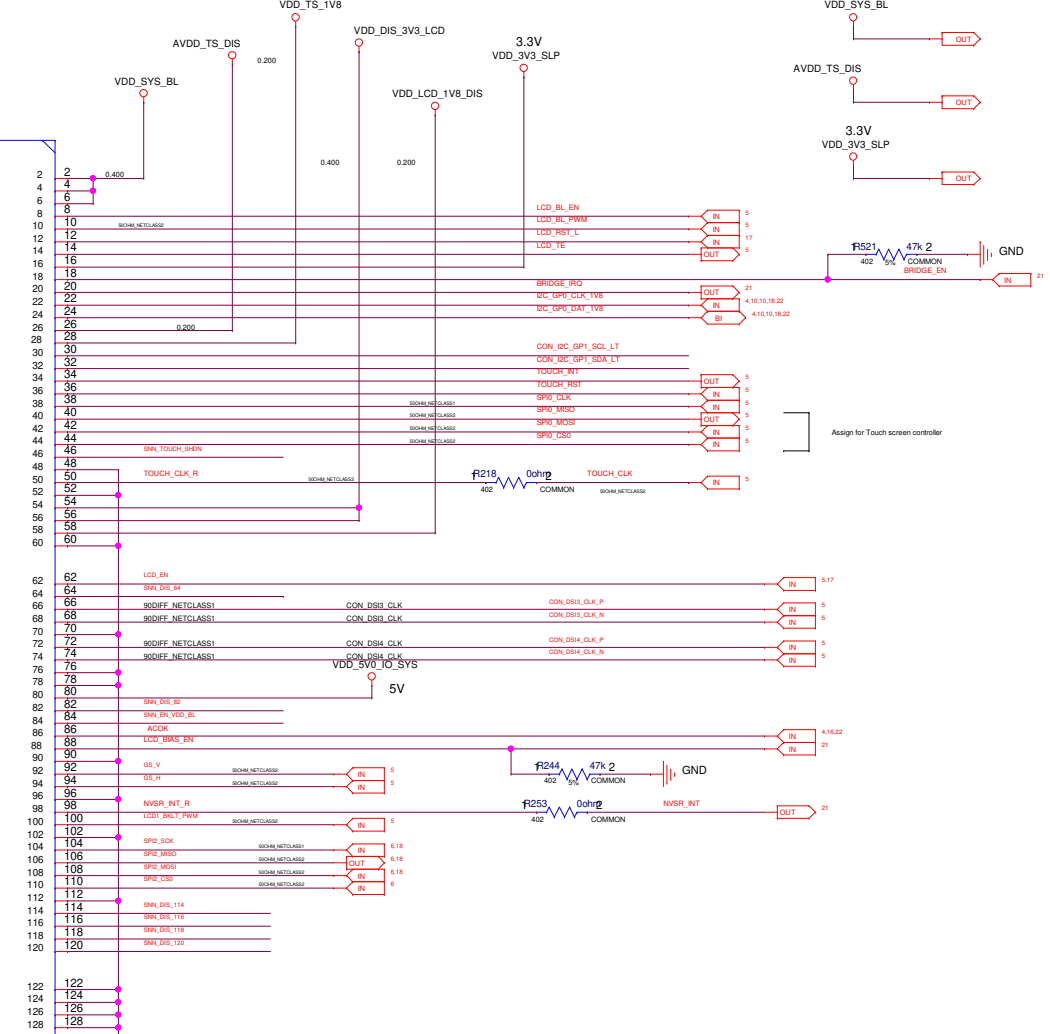
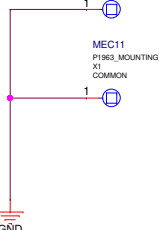
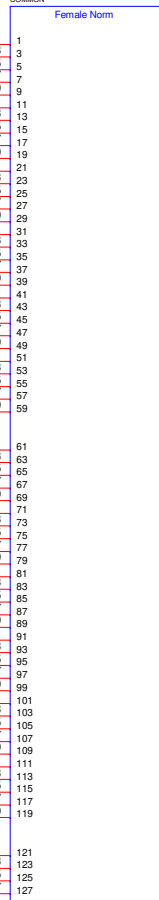
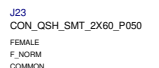
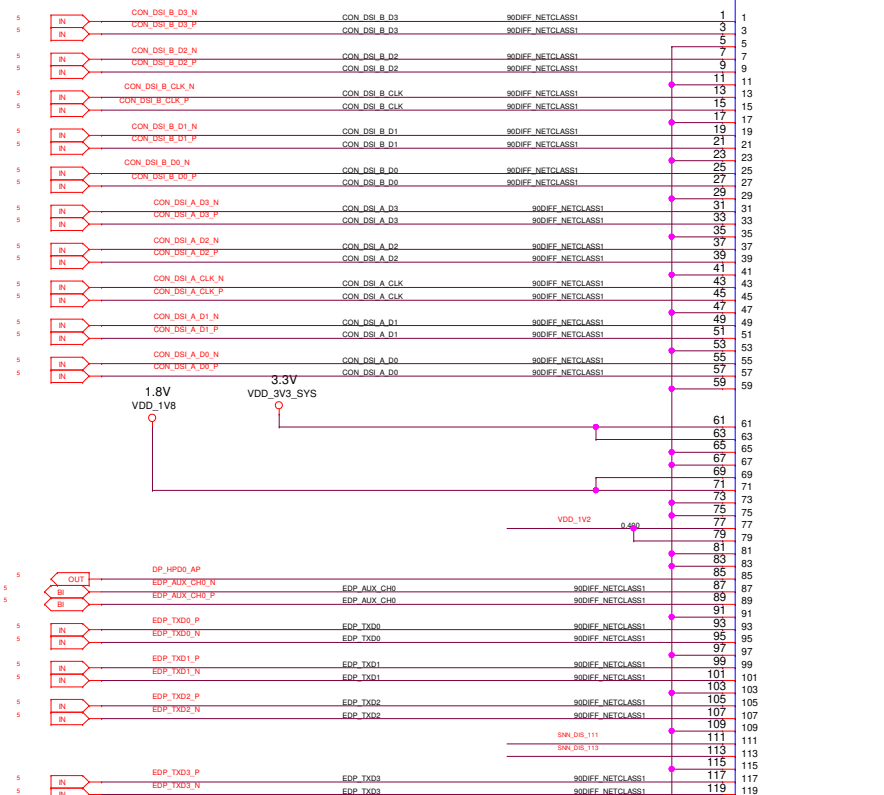
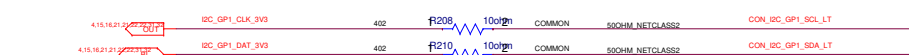
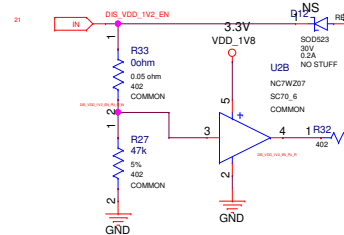
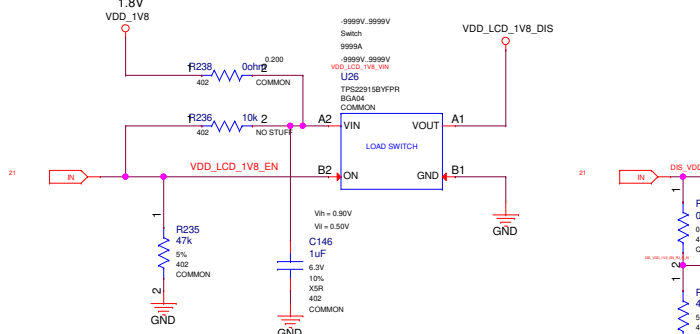
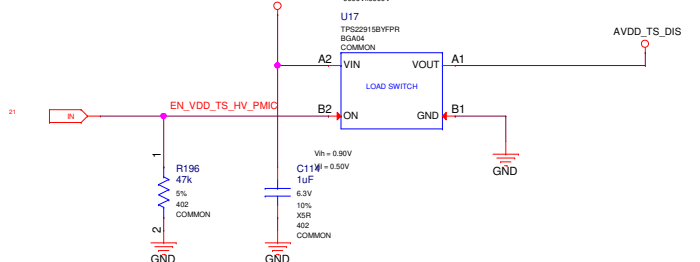
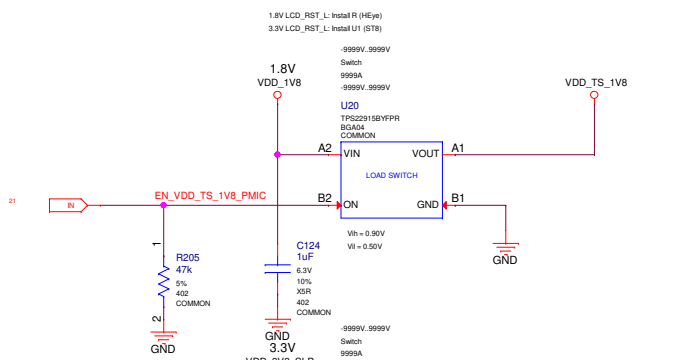
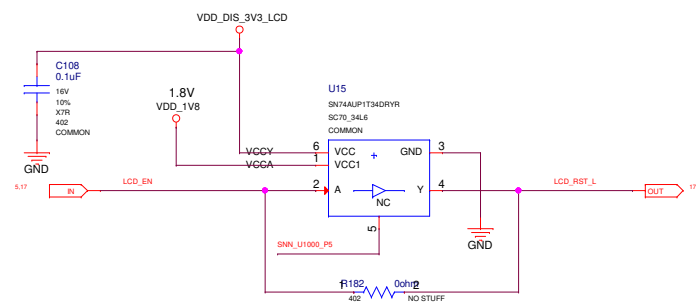
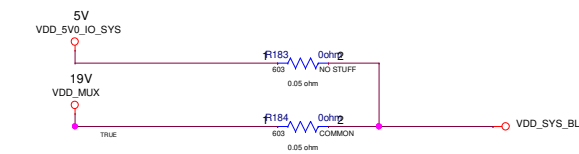
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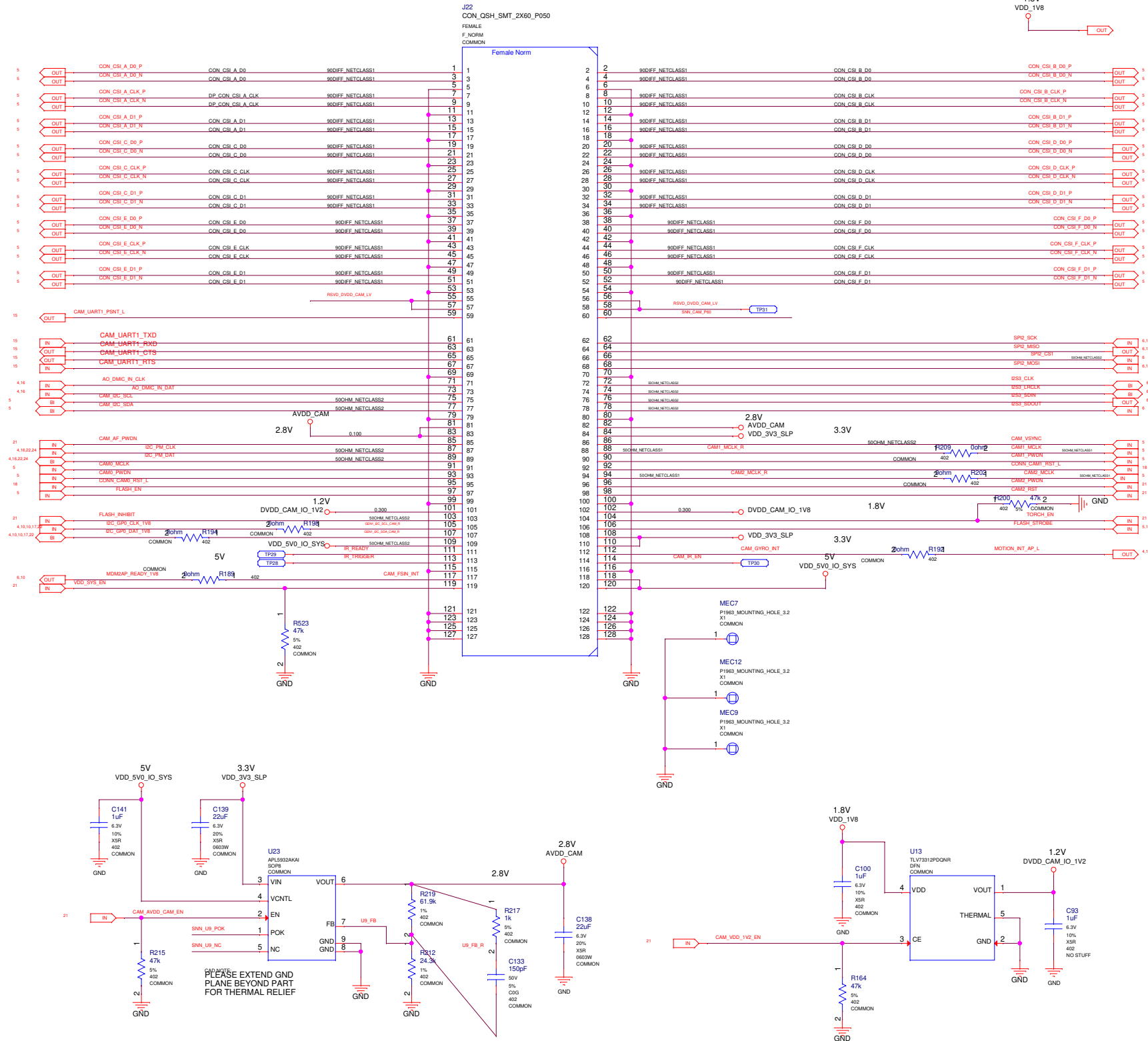
DISPLAY CONNECTOR



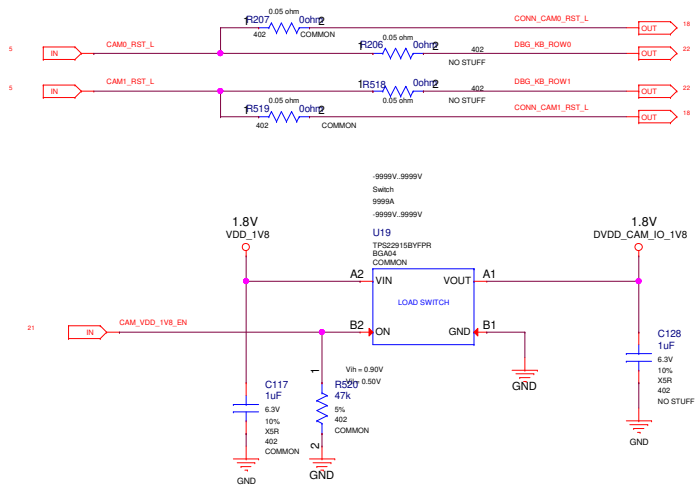
NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA				
NV_PN		600-82597-BASE-900		
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Camera Expansion



DEBUG GPIO STUFF OPTIONS



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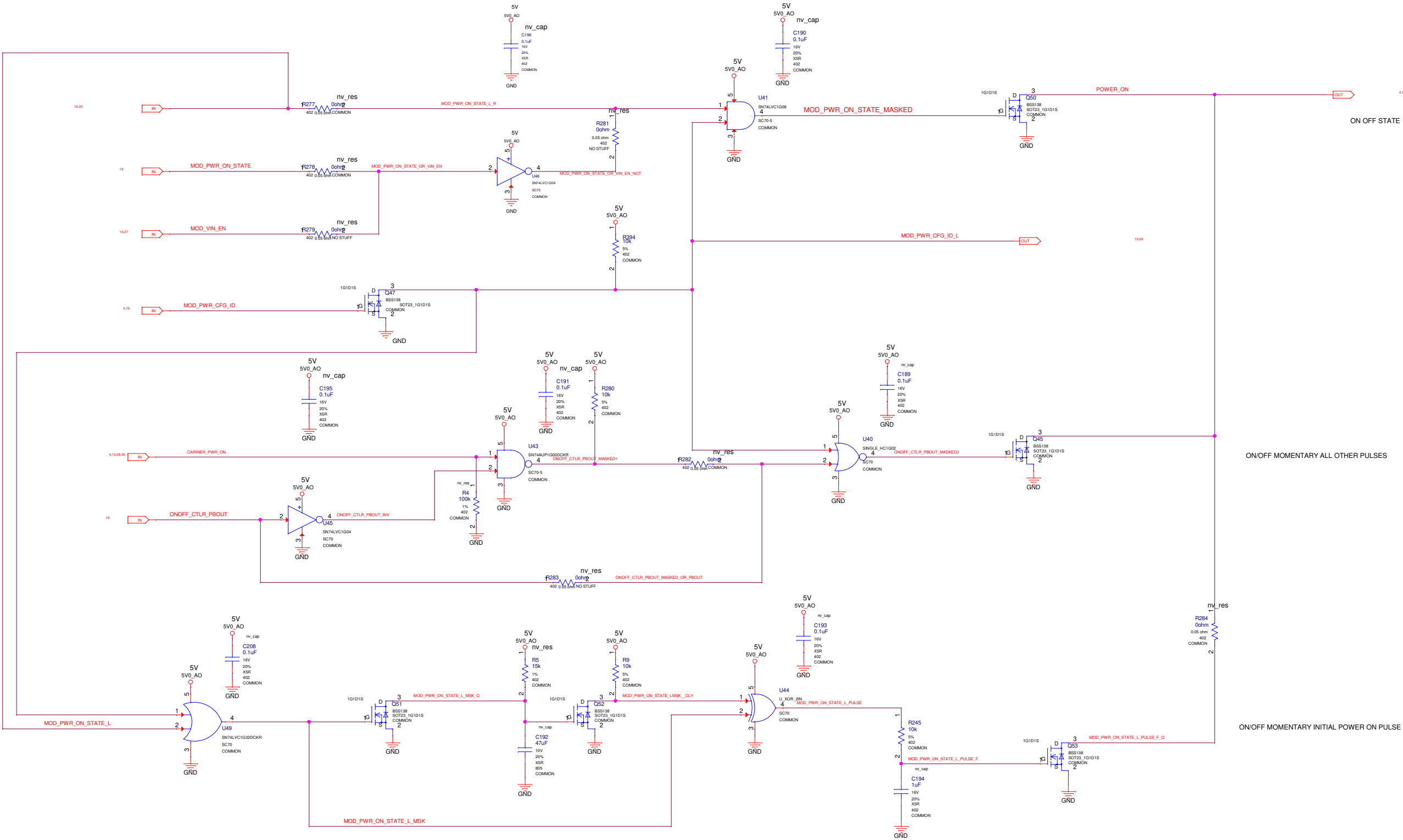
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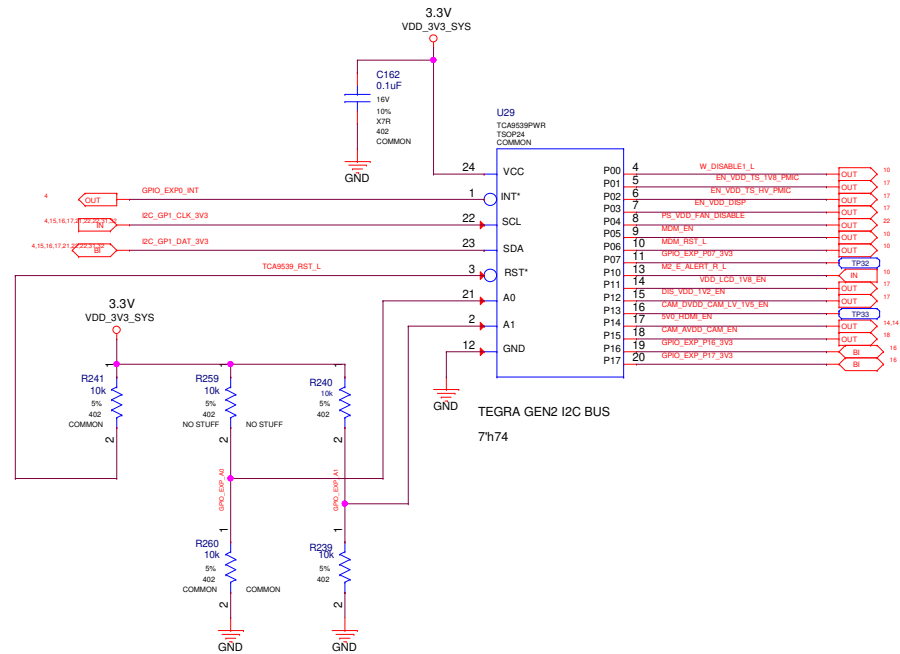
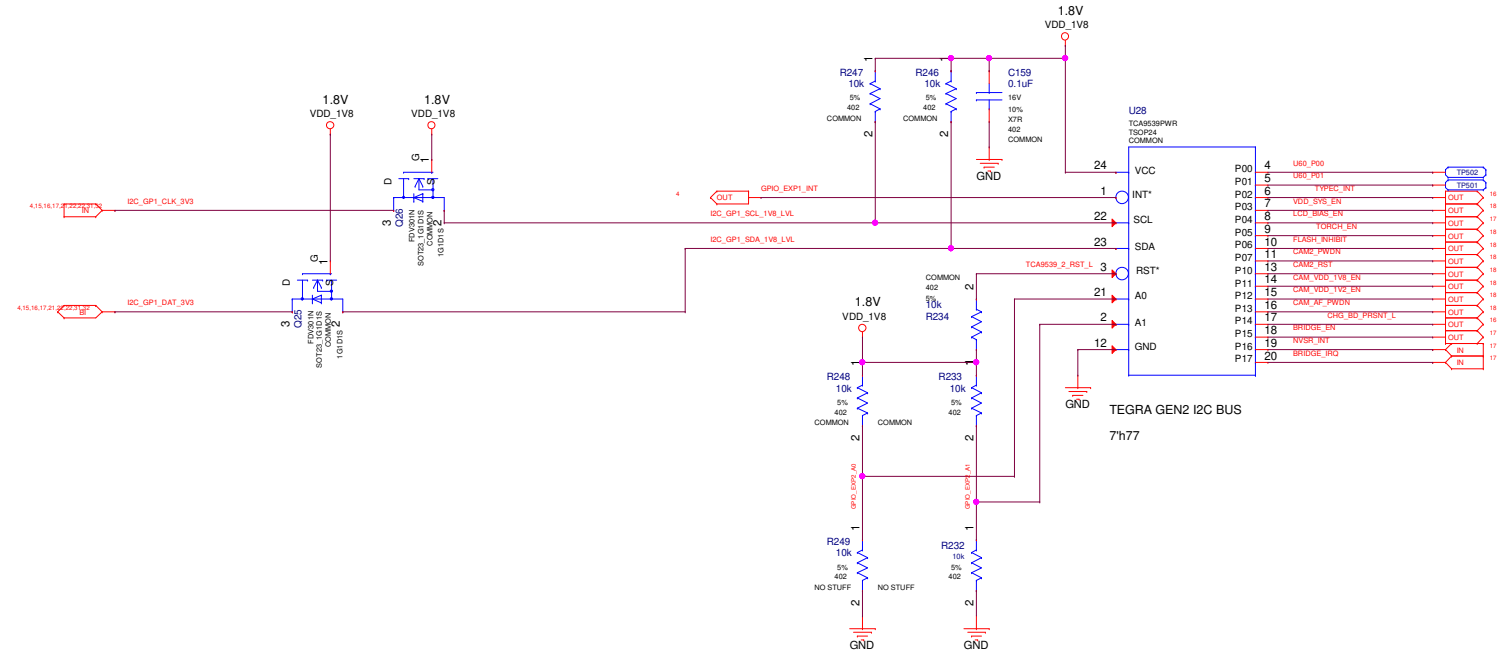
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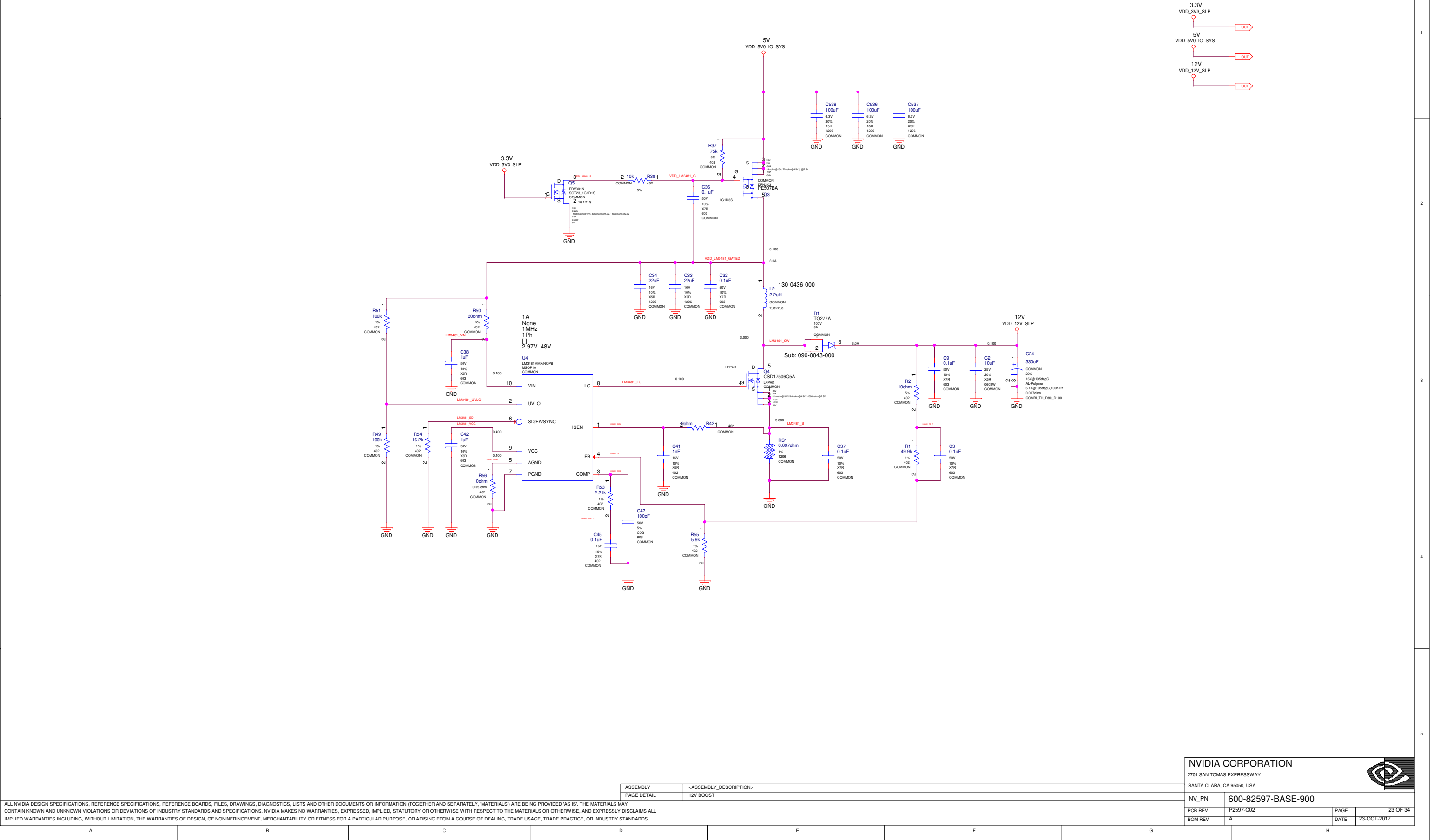


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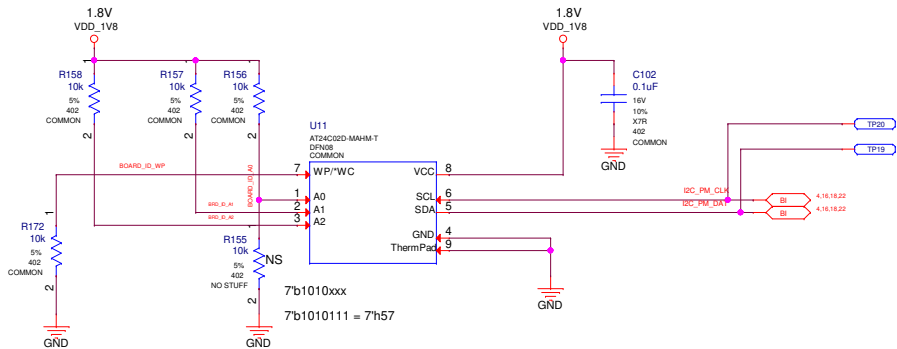
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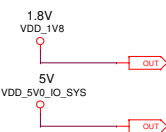
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Carrier board config



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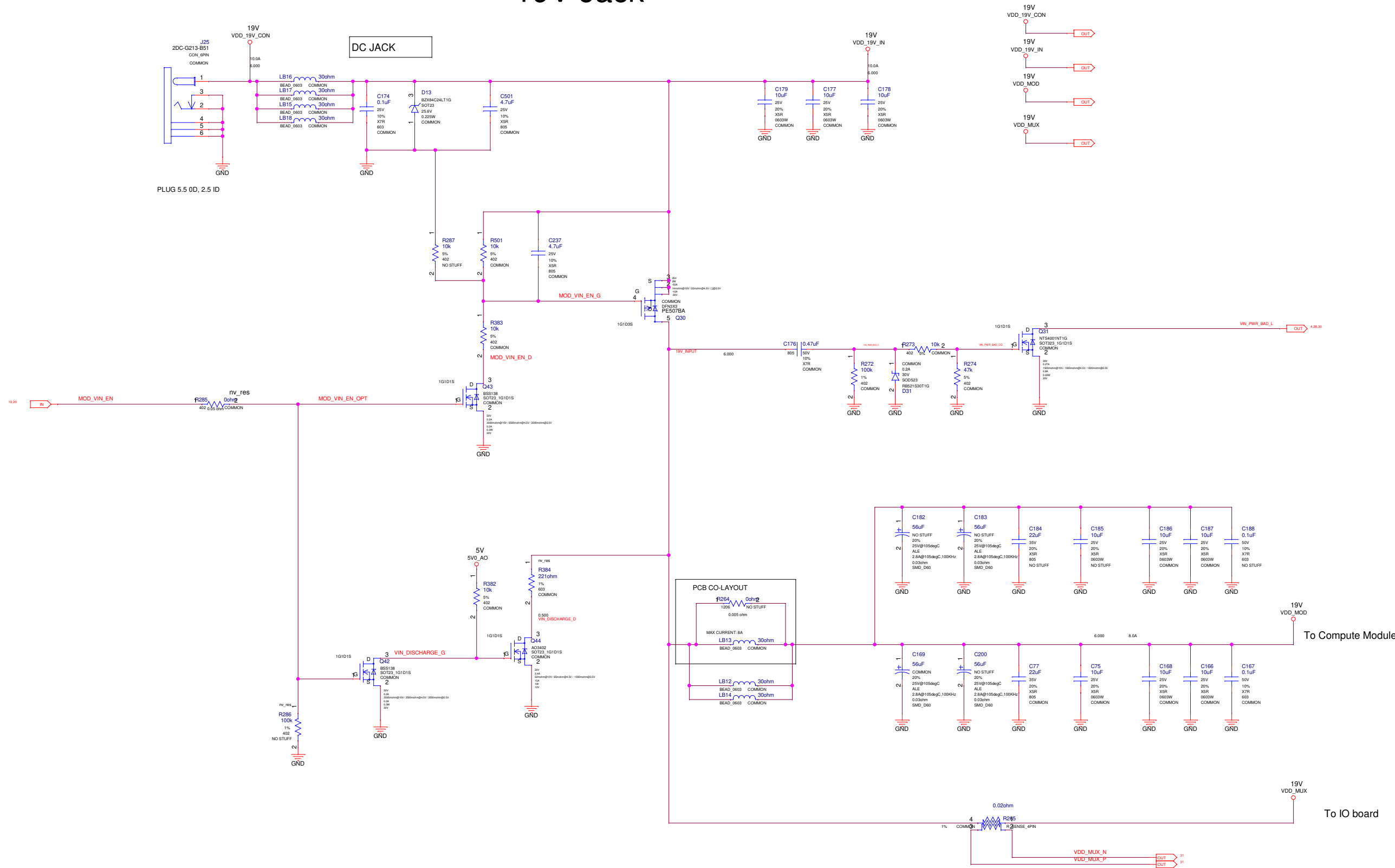
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19V Jack

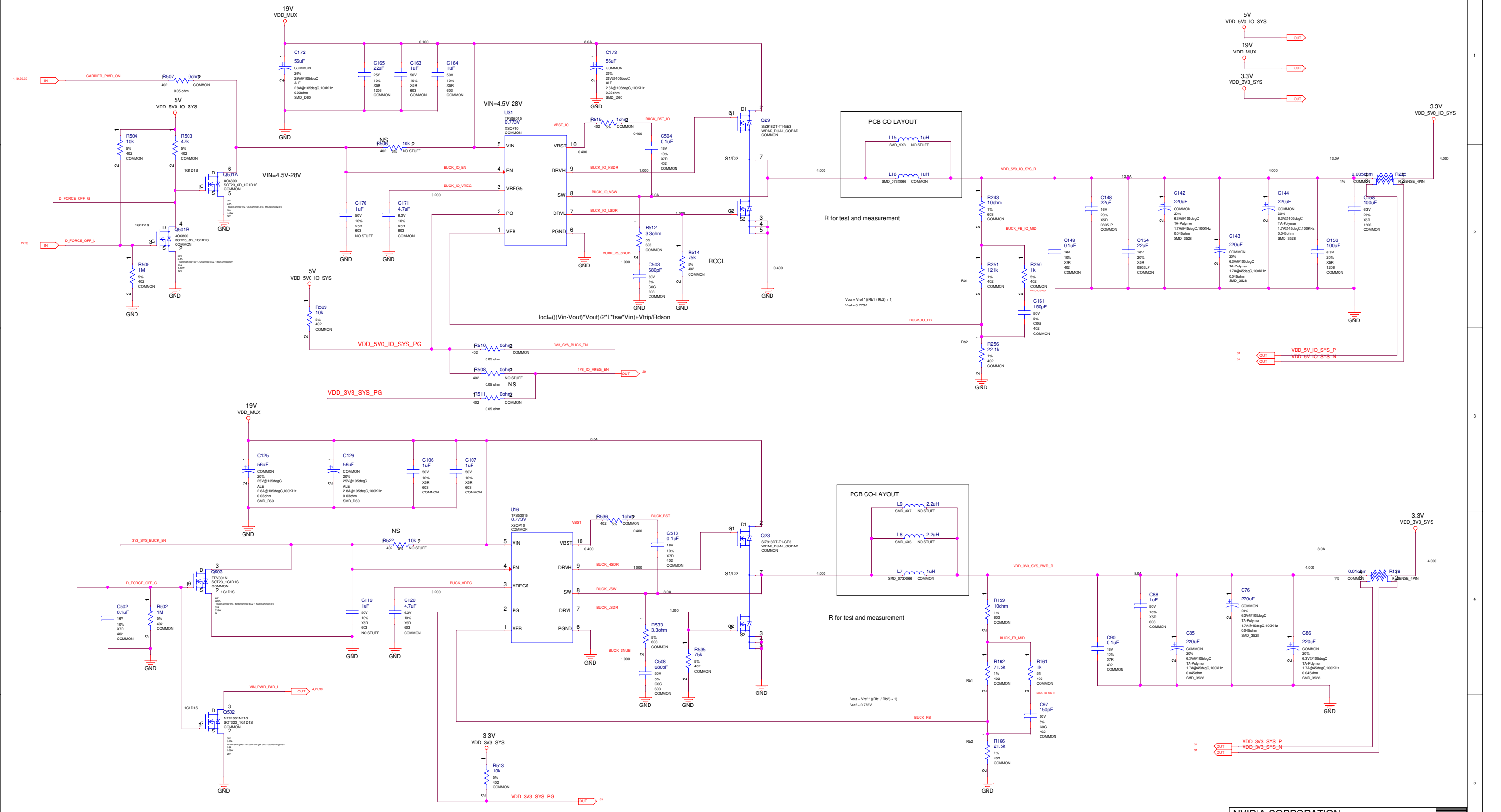


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5V & 3V3 SYS POWER SUPPLIES



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

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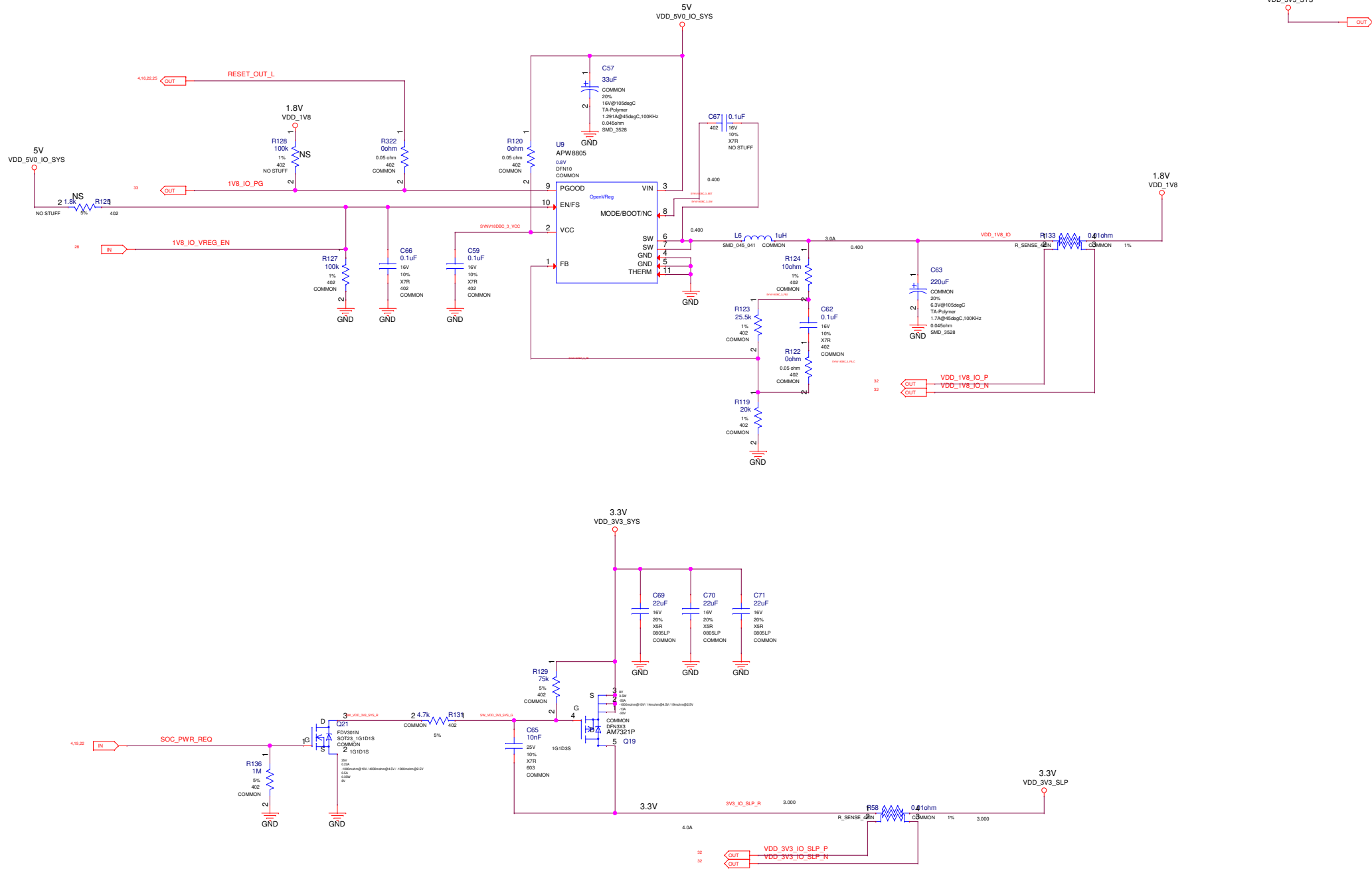
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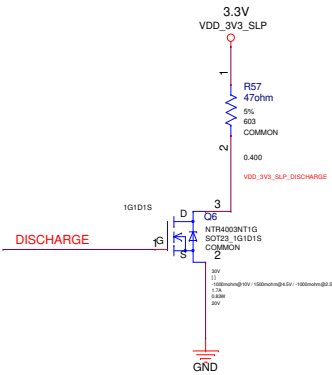
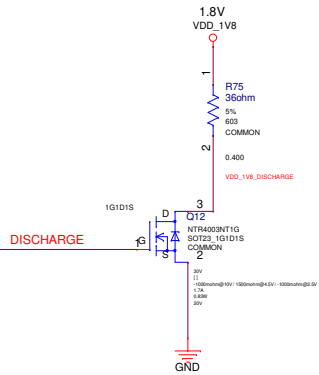
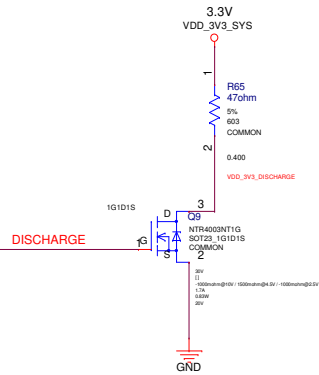
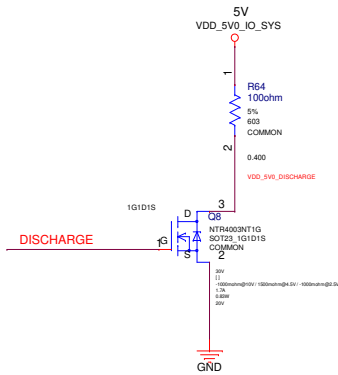
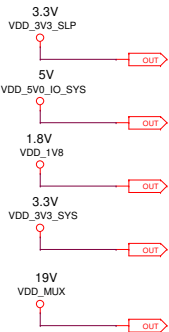
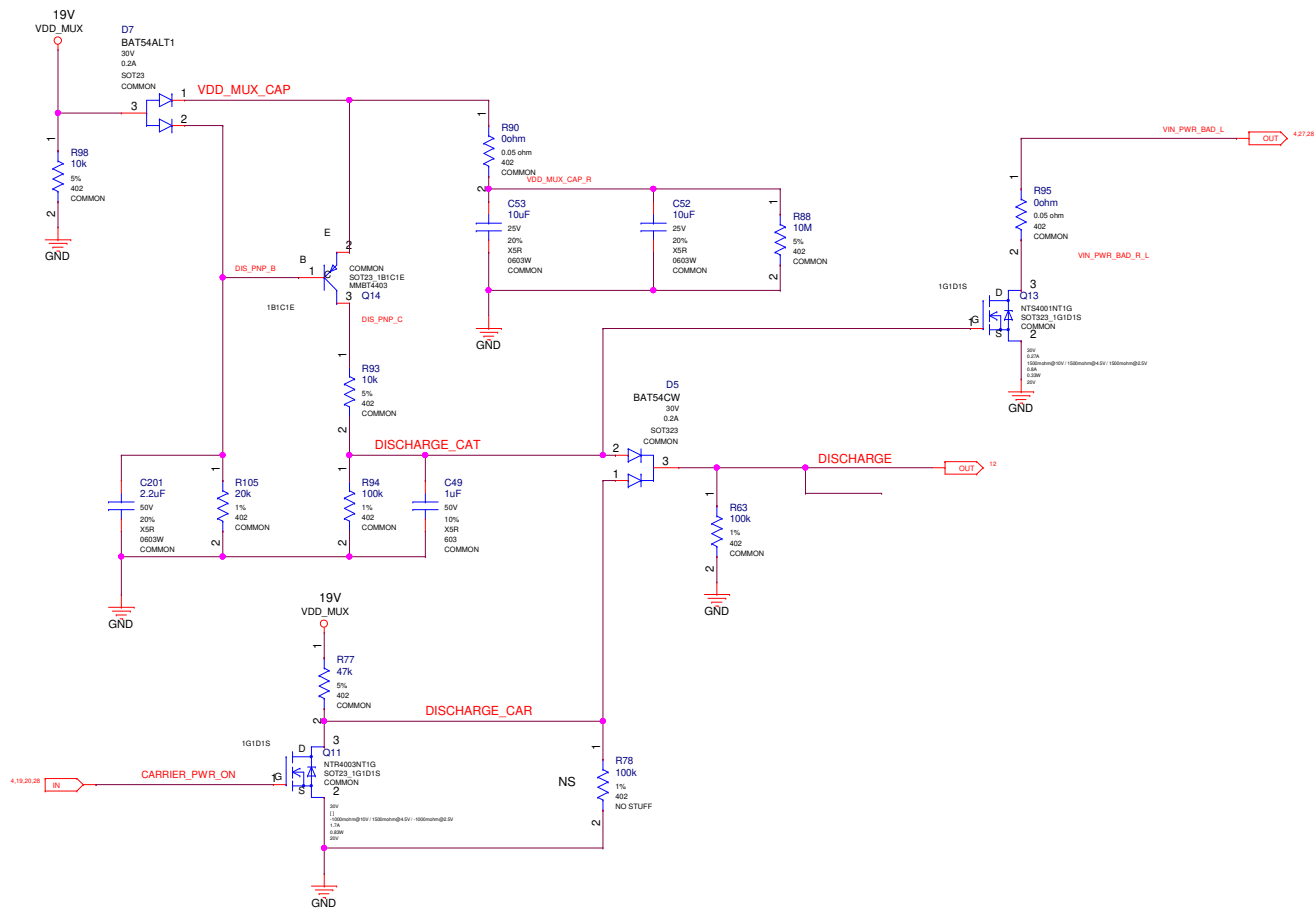
1V8 POWER SUPPLY AND 3V3_SYS



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RAIL DISCHARGE



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ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	Rail Discharge

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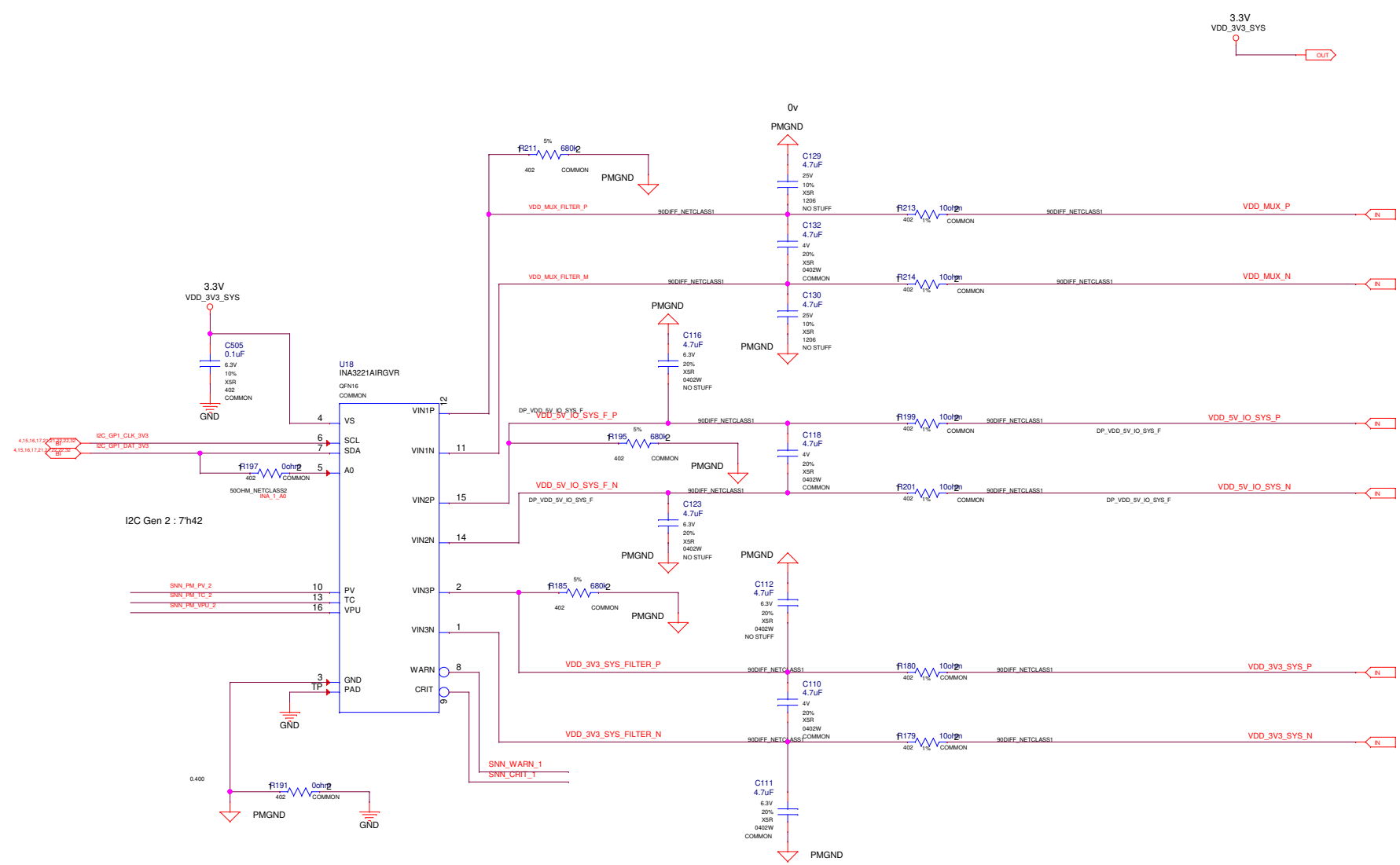
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POWER MONITORS I



DC JACK to IO board

5V SYSTEM

3V3 SYSTEM

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ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	Power Monitor I

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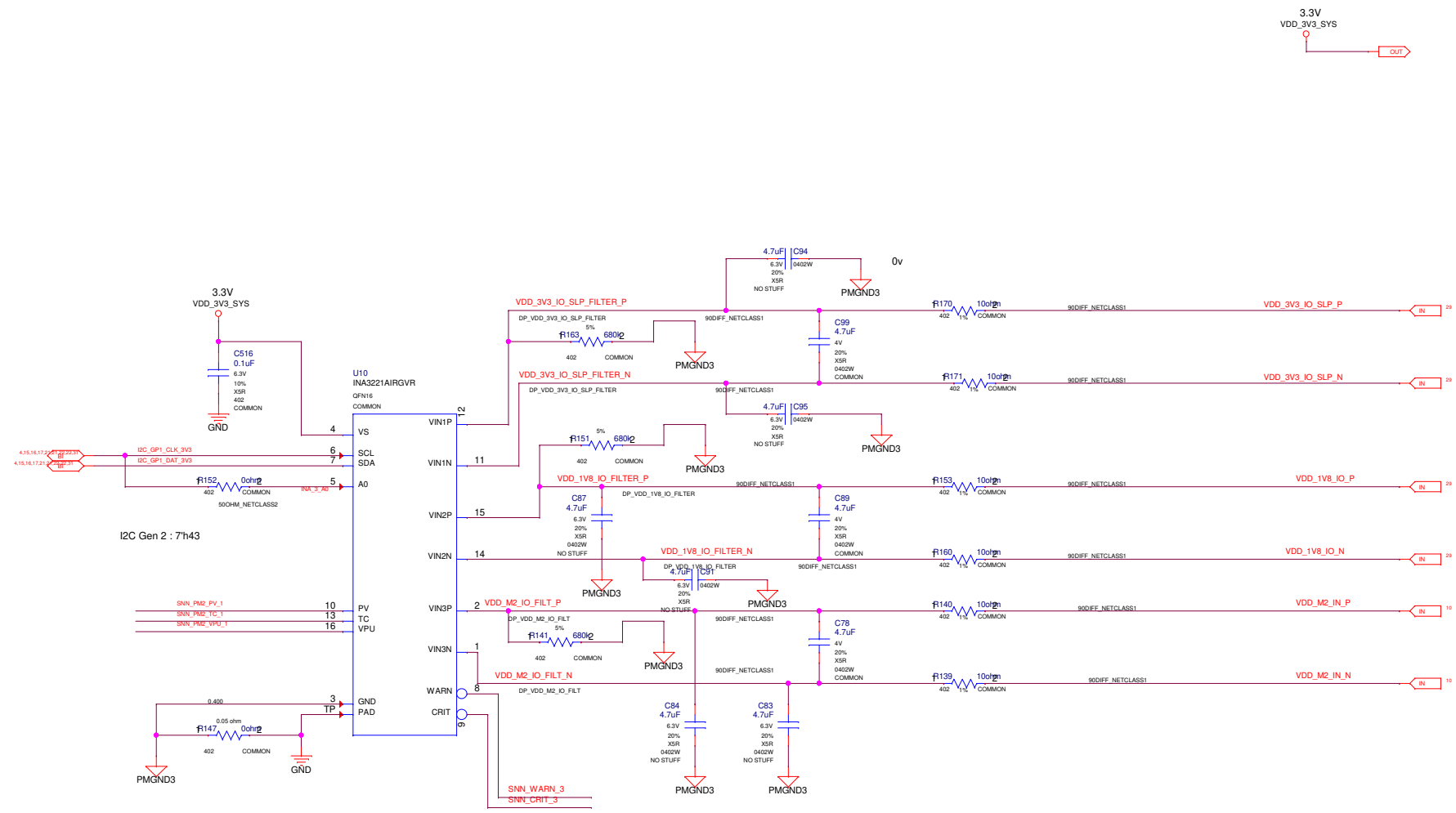
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POWER MONITORS II



3V3 RUN RAIL

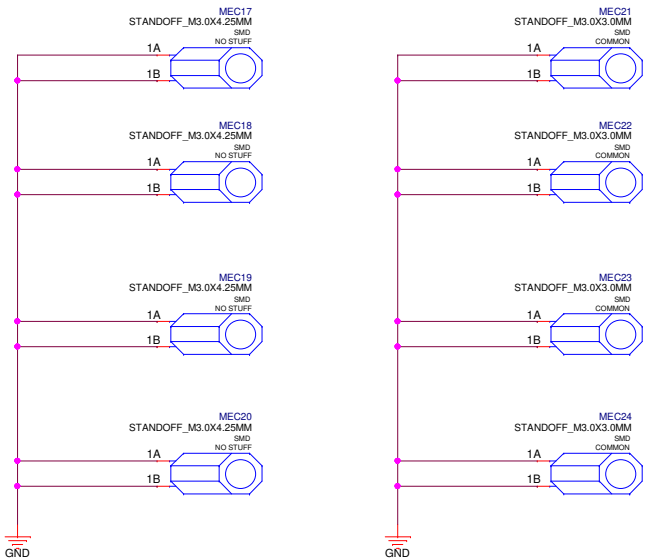
1.8V SYSTEM

M.2 3.3V

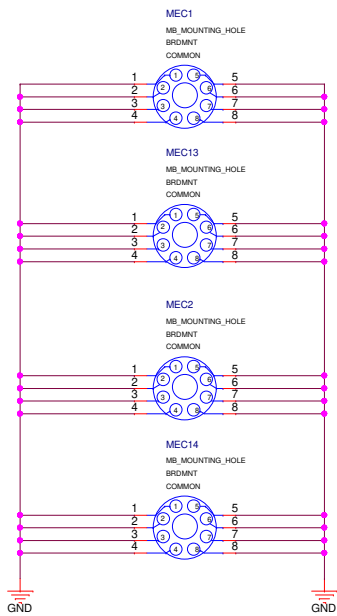
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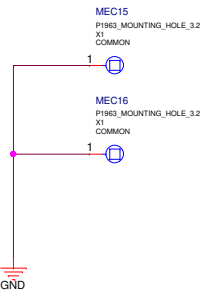
MODULE MOUNTING STANDOFFS
Top Side Botseltom Side



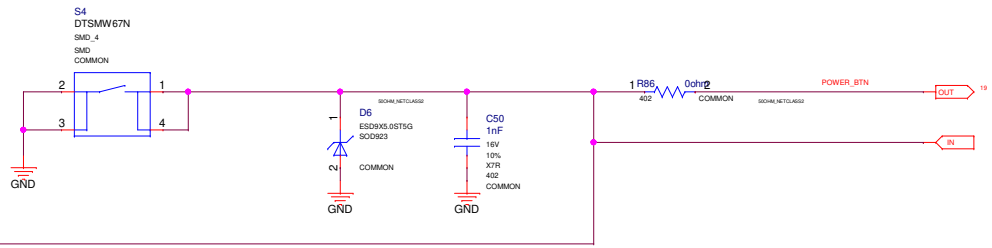
FOUR CORNER
miniITX MOUNTING HOLES



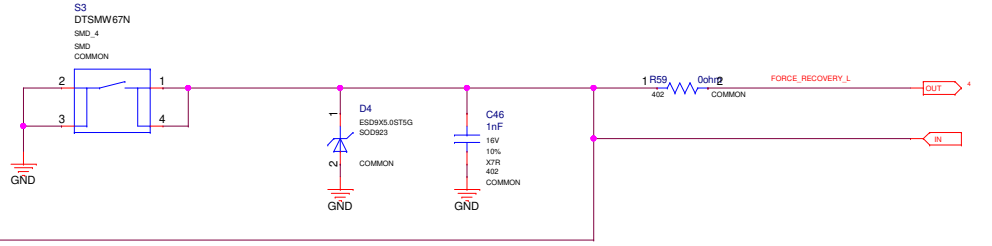
Antenna bracket
mount



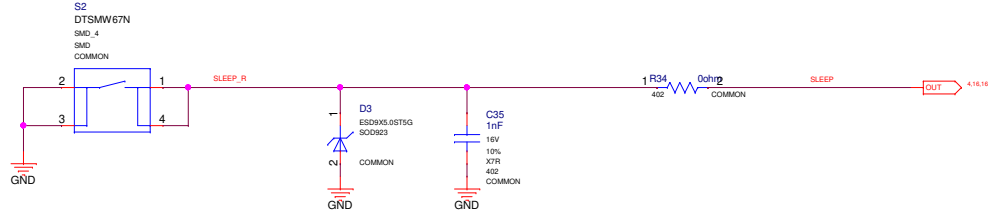
POWER



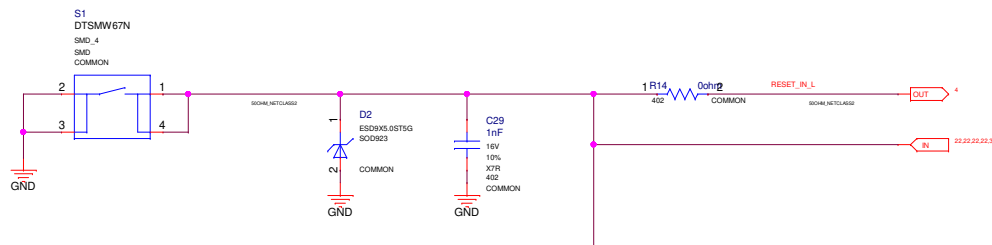
RECOVERY



VOL DOWN



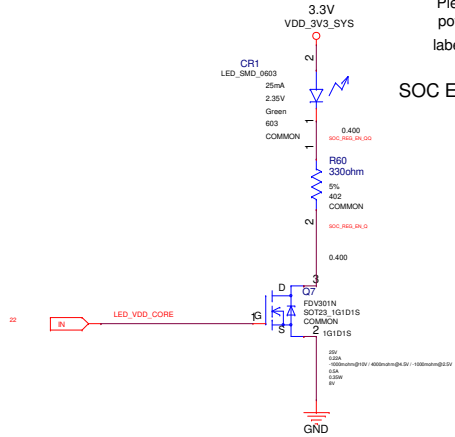
RESET



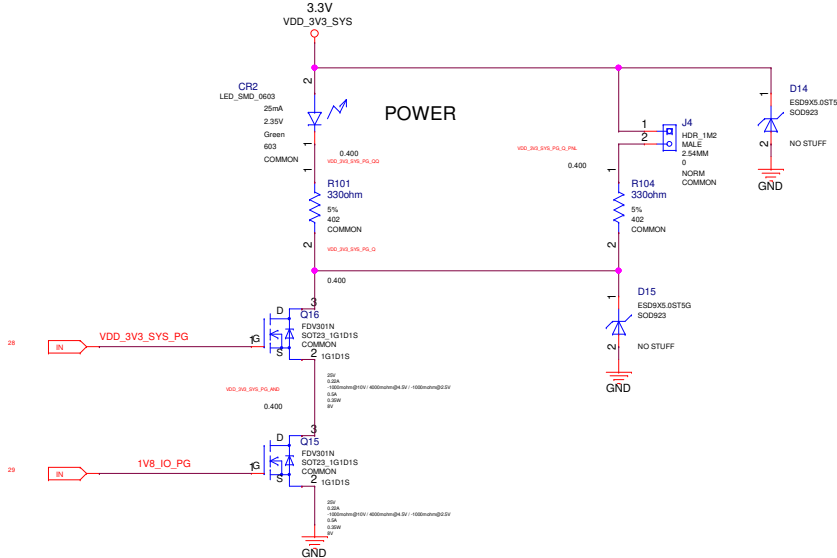
CAD NOTE:

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

SOC EN



POWER



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ASSEMBLY	<ASSEMBLY_DESCRIPTION>
PAGE DETAIL	Buttons and Mechanical

Revision History

P2597-B03

Page 4: Added a red LED to indicate power is active on the CVM

Page 8: Replaced U21 due to EOL on previous part

Page 9: Changed an unused pull up to a TVS device on PCIe RST
PCI_E_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

P2597-C00

Page 13: Changed ENET CM Cap on transformer pimary side
from one shared to indiviual caps

Page 14: Changed HDMI ESD diode to a package with
footprint compatible parts

Page 19: Added ON/OFF supervisor ckt to accomdate both
AutoPMIC & MobilePMIC On/Off control

Page 20: Added ON/OFF Glue logic to accomdate both
AutoPMIC & MobilePMIC On/Off control

P2597-C01

Page 12: Changed SATA to right angle connetor to remove
interference with PCIe card

Page 19: Add seperate delay path for CARRIER_PWR_ON to
allow power cycle on RESET
Add option for ON/OFF PB or INT to drive WAKE
to allow short POWER_BTN press to wake module
Add logic qualifier to INT for DFF to WAKE not
power down on PB press in SLEEP

Page 20: Add logic qualifier to gate initial momentary
pulse in state mode to remove state PWR_ON glitch

Page 33: Changed 1x2 headers for buttons to 1x10 header,
so customer won't poke finger on header while
accessing buttons

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BOM REV	A	DATE	23-OCT-2017

