

# Jetson Nano Carrier Board Reference Design

## HDMI, USB, M.2, Gbe

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#### I2C Port Assignments

Slave Device	BUS: Device address
BOARDID EEPROM	I2C2 : 7'57h
RTS5411S USB3.1 HUB	CAM I2C : 7'6Ah
M.2 KEY-E WIFI/BT	I2C2 : TBD

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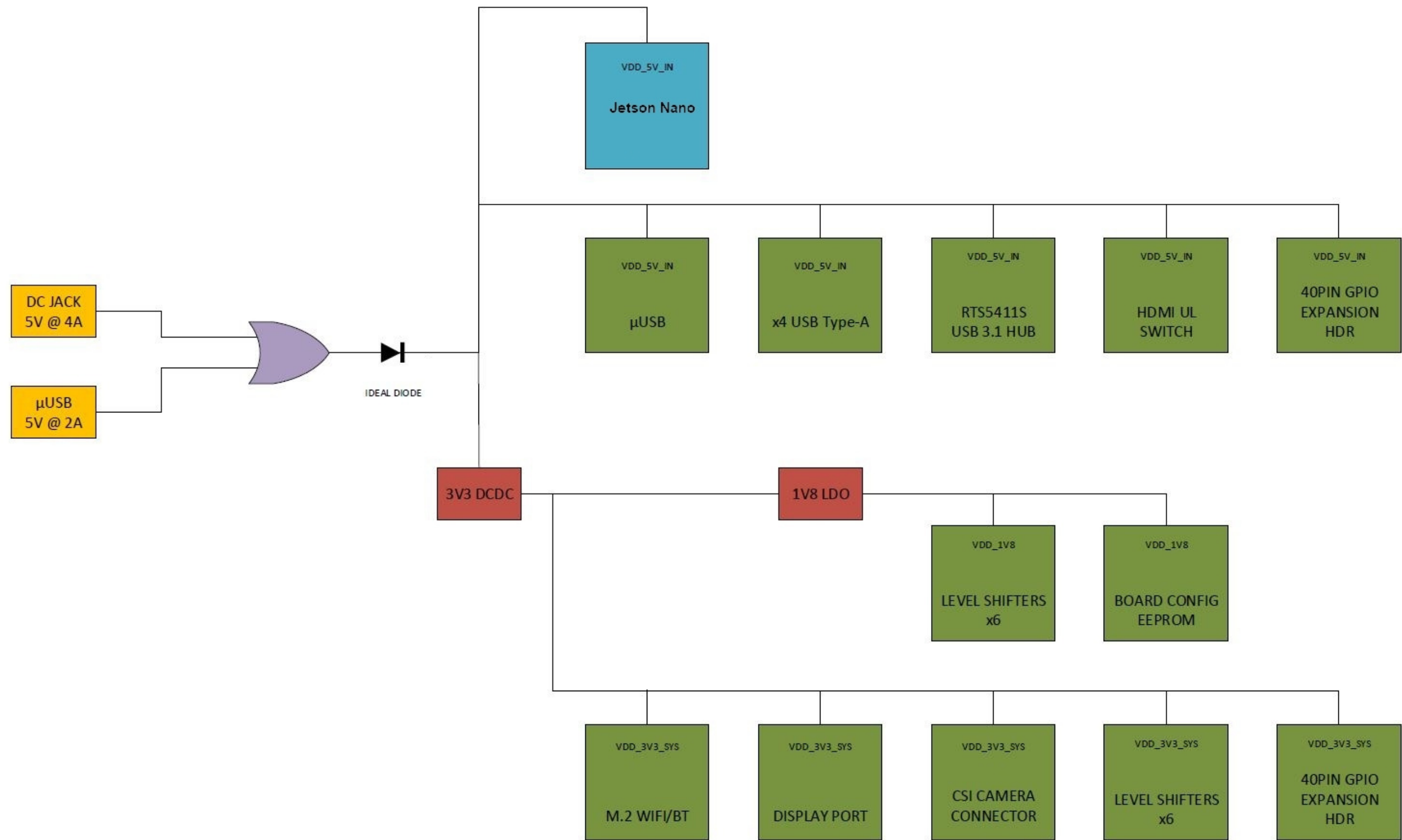
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# Power Tree



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ASSEMBLY Jetson Nano Carrier Board  
PAGE DETAIL Power Tree

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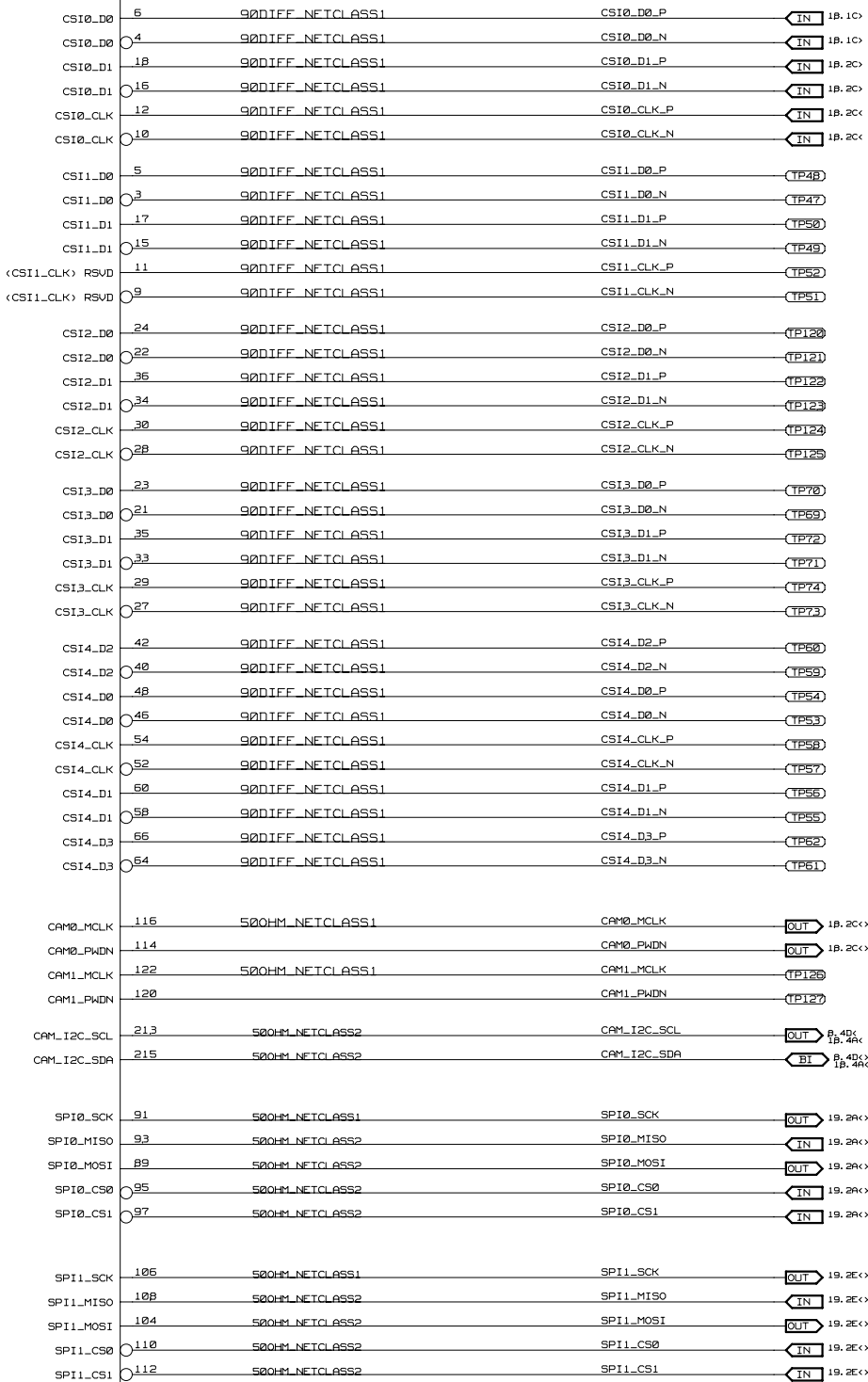
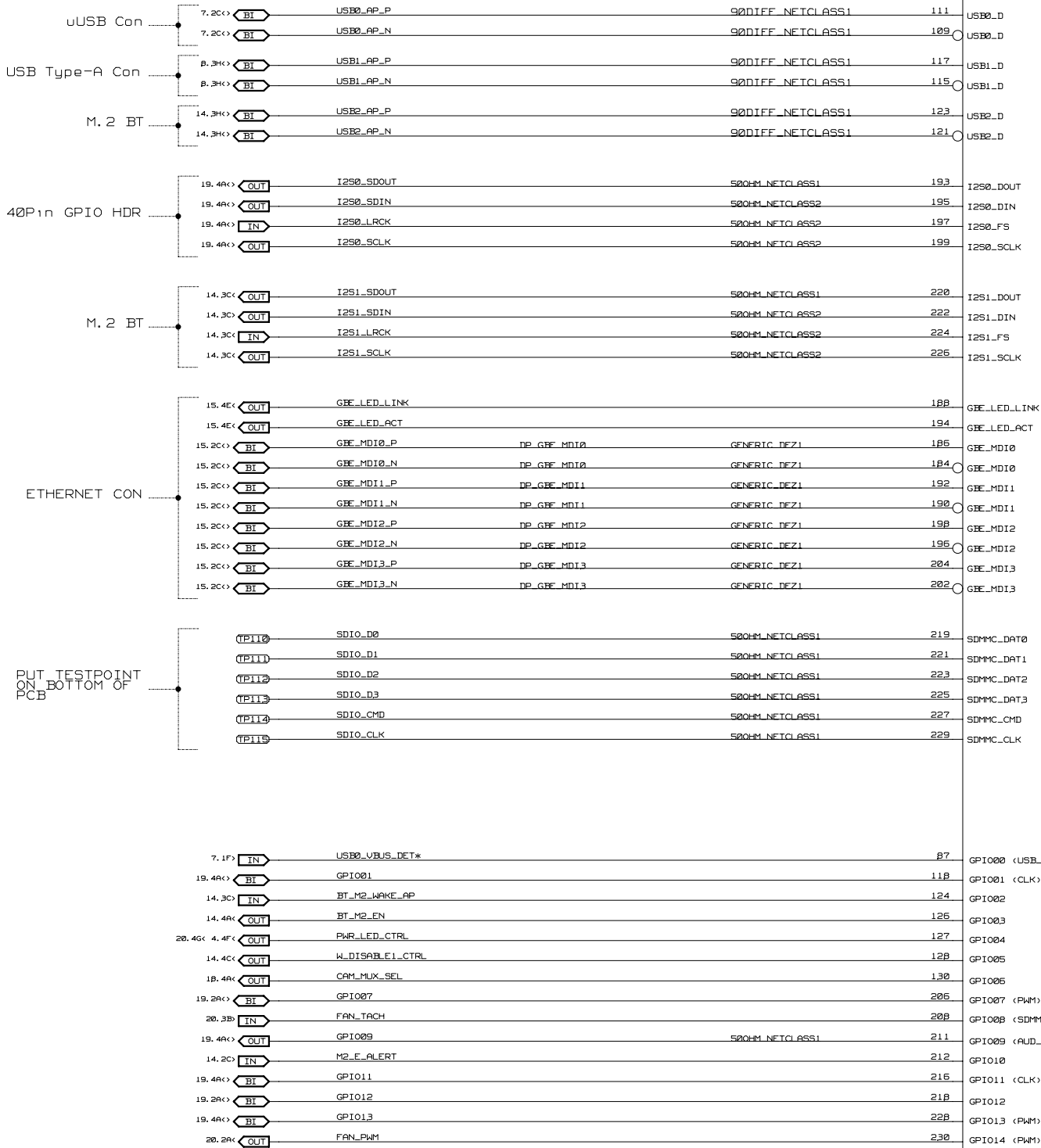
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GPIOs, USB2.0, I2S, SPI, GBe and CSI

J2  
2309413-1  
CONN.SODIMM260\_JETSON\_NANO  
COMMON

SODIMM CUB CON  
SECTION 2 OF 3



CAM FPC Con

PUT TESTPOINT  
ON BOTTOM OF  
PCB

PUT TESTPOINT  
ON BOTTOM OF  
PCB

3.3V VDD\_3V3\_SYS  
R88 0402 5% COMMON  
R87 0402 5% COMMON  
CAM\_I2C\_SDA  
CAM\_I2C\_SCL

CAM FPC Con  
USB3.1 HUB

40Pin GPIO HDR

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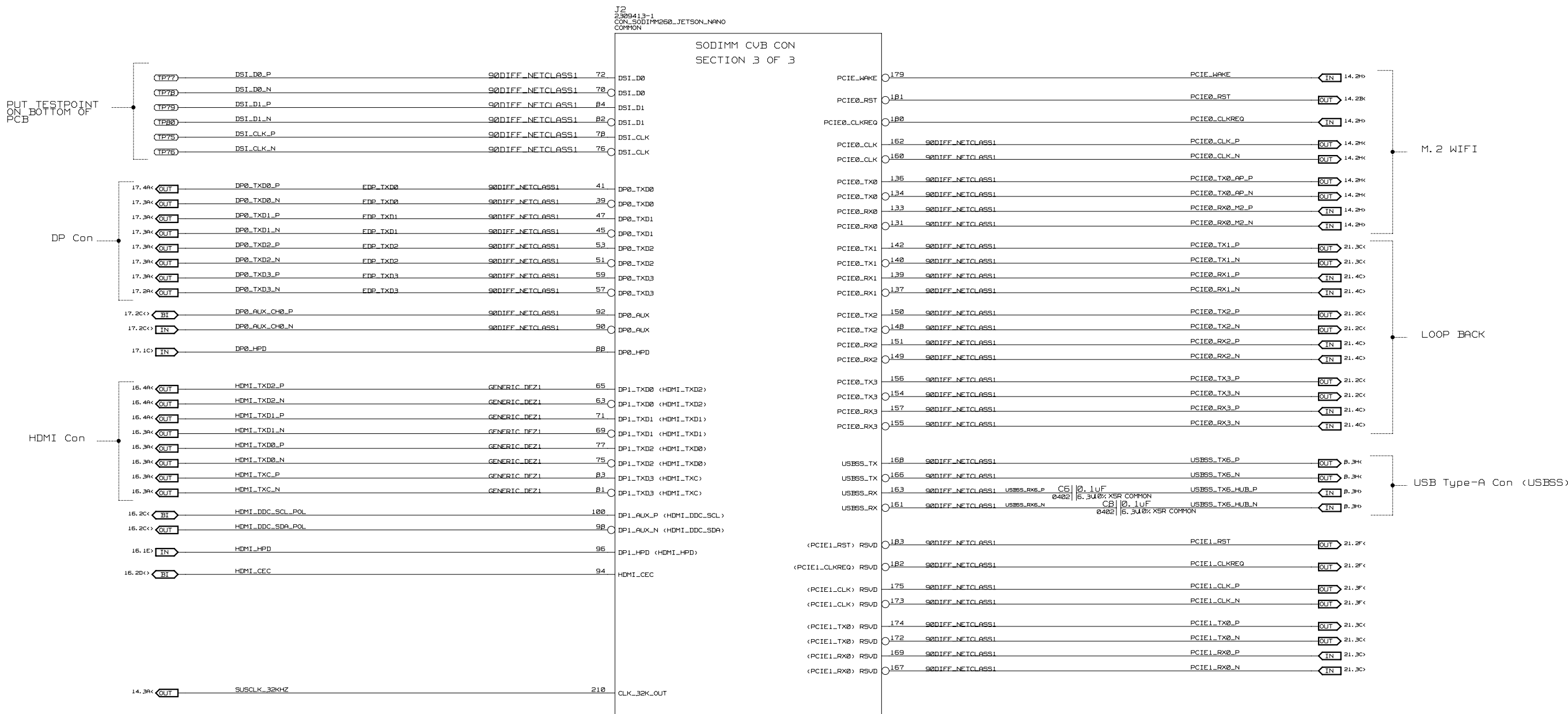


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PAGE DETAIL SODIMM connector 2/3

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HDMI, DP, DSI, USBSS and PCIe



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PAGE DETAIL SODIMM connector 3/3

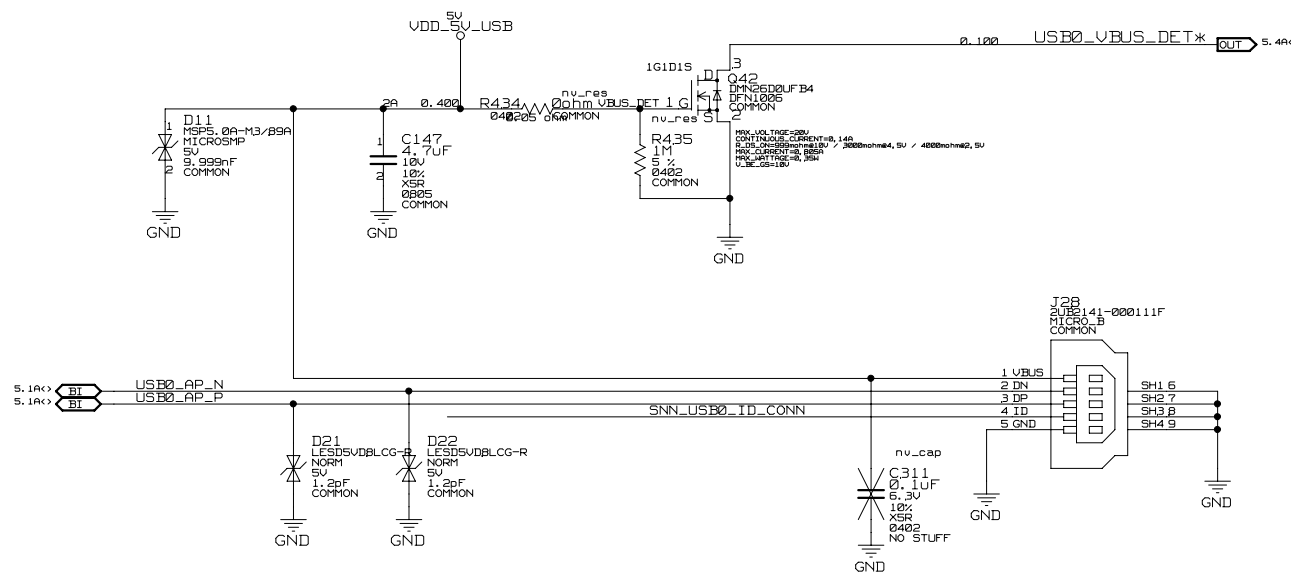
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MICRO B USB 2.0 CONNECTOR



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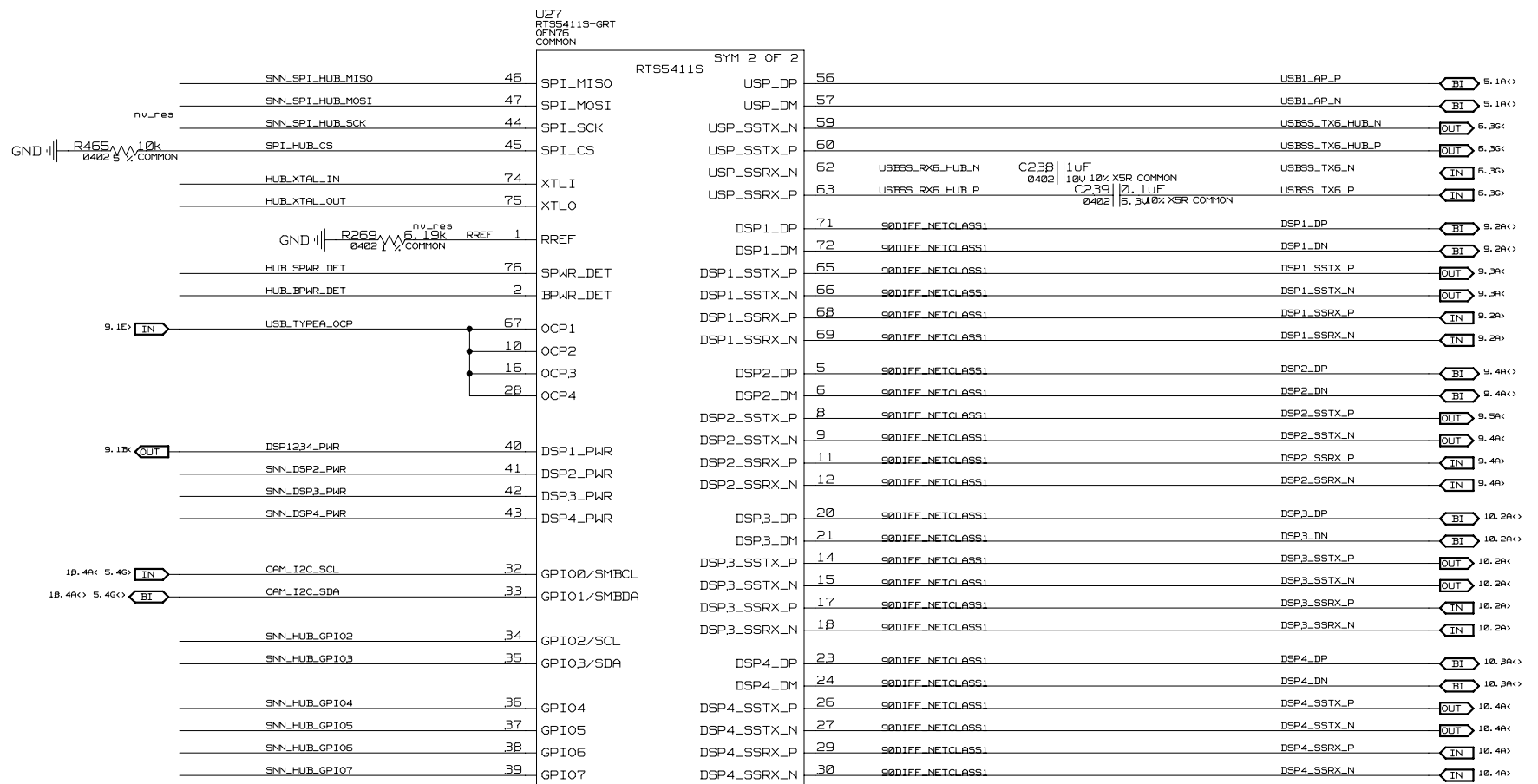
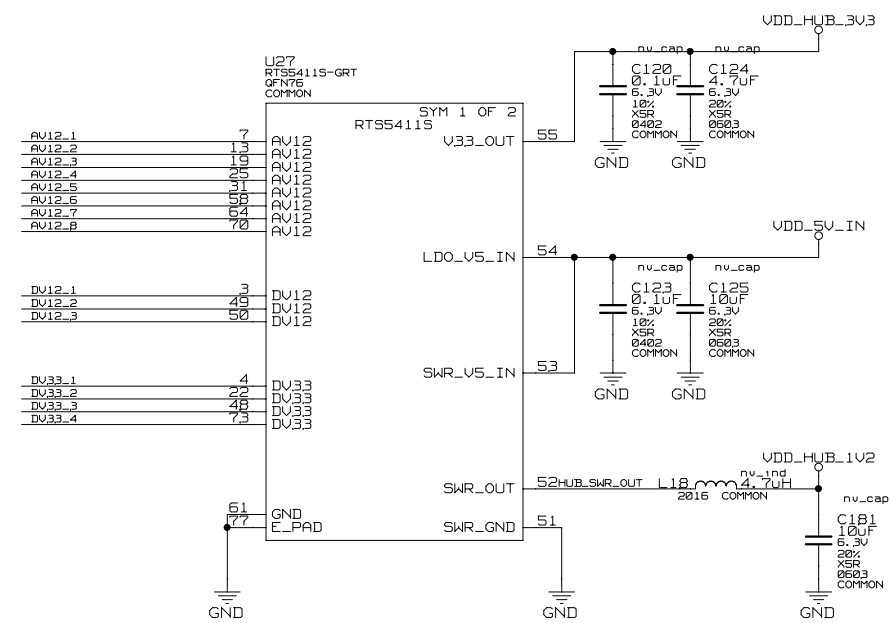
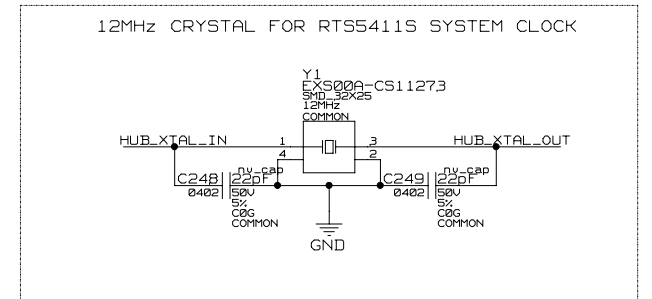
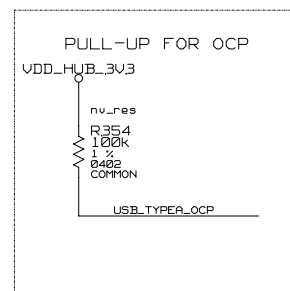
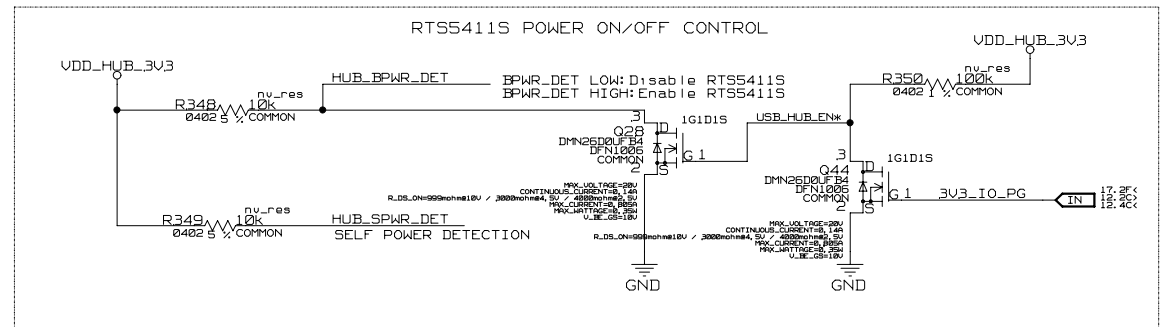
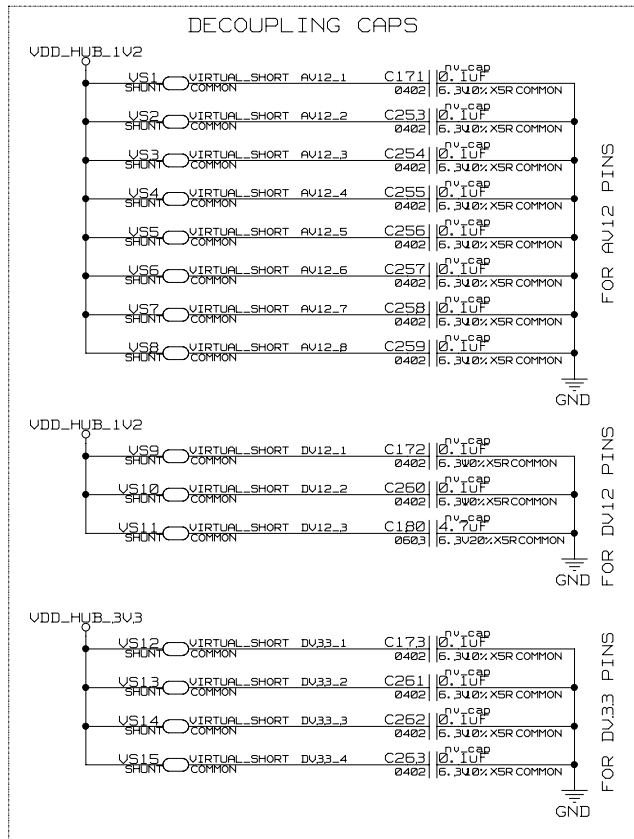


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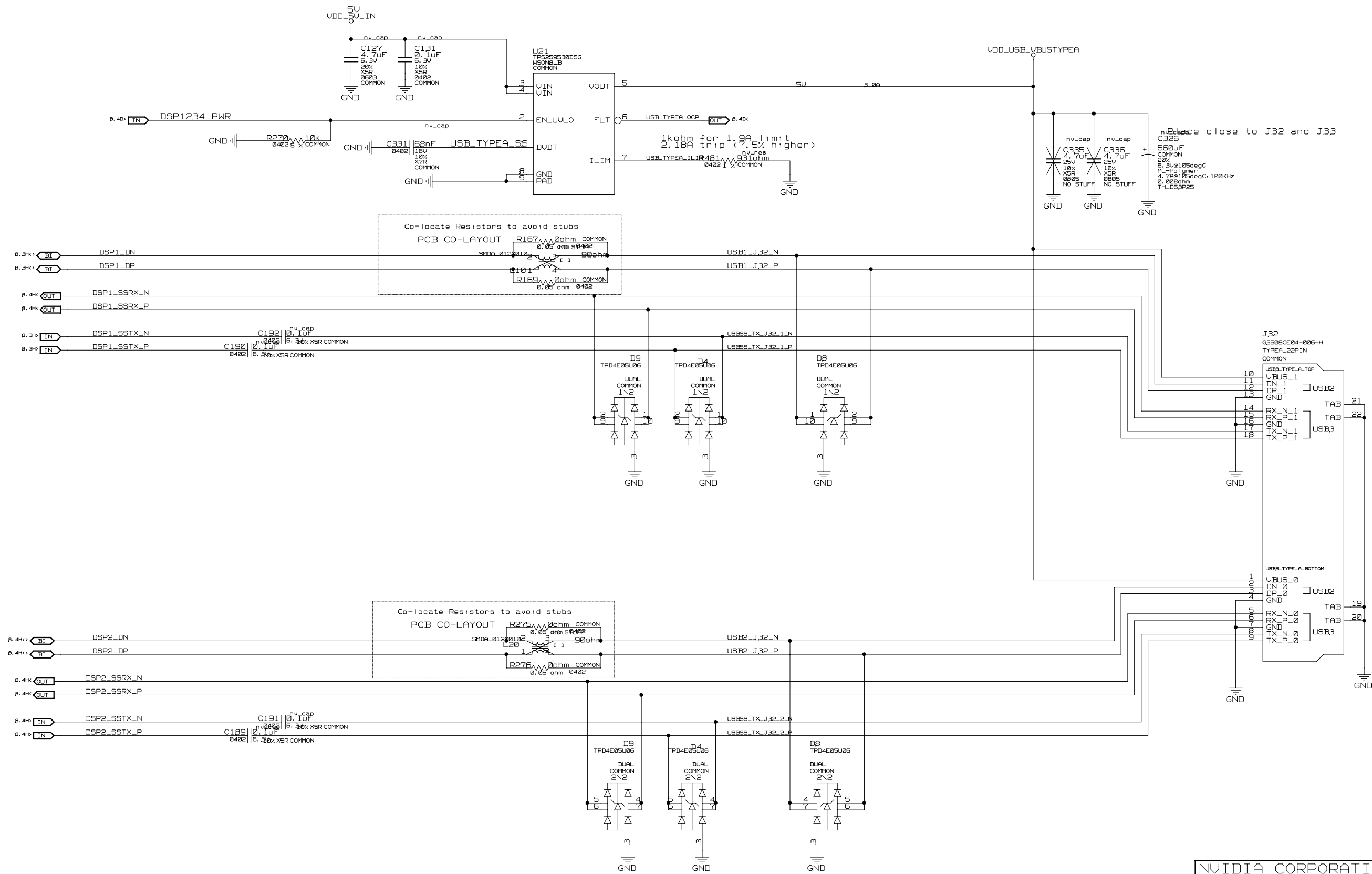
USB3.1 HUB x4 PORTS



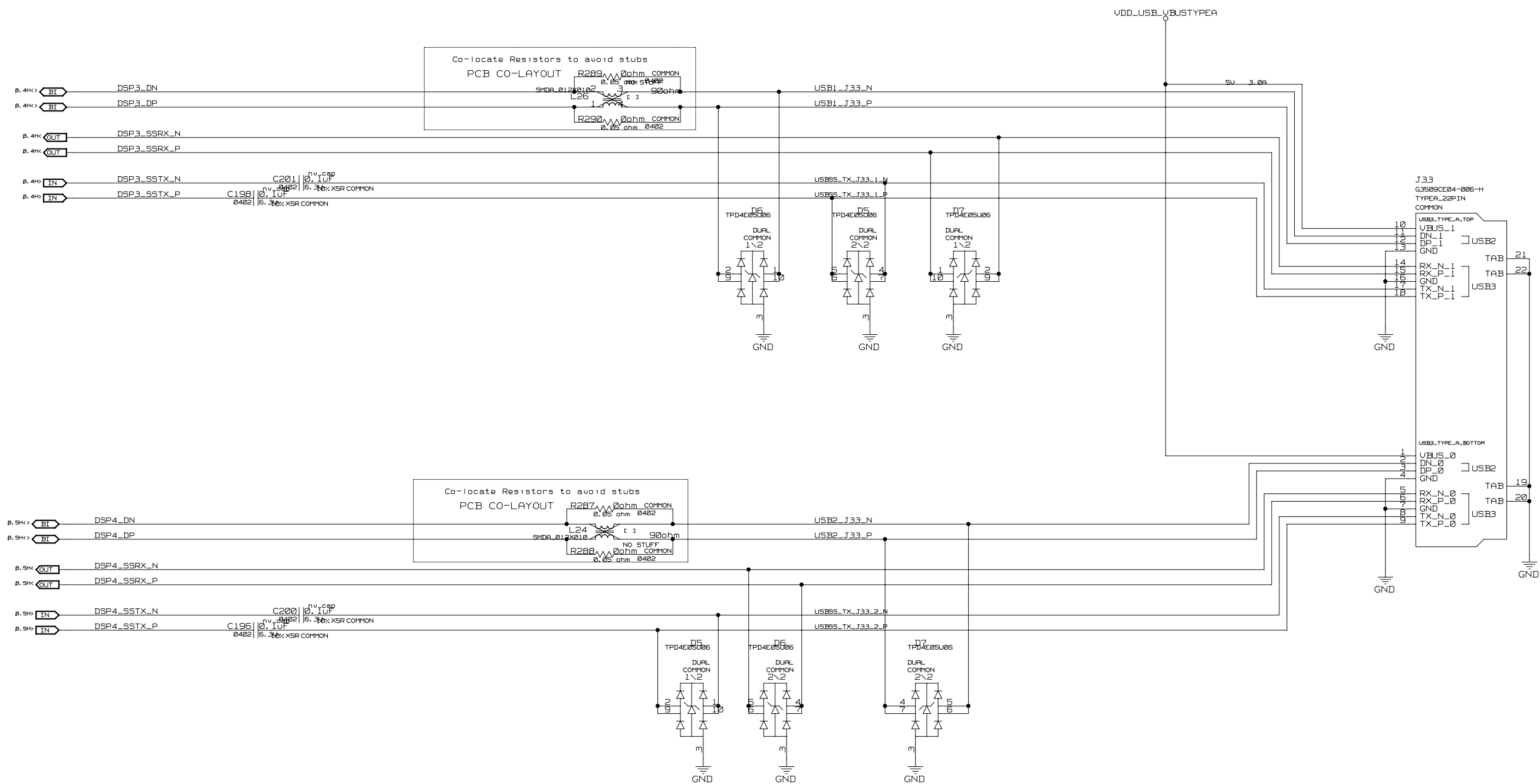
```
I2C slave addr: 7'1101010b = 7'h6A
```



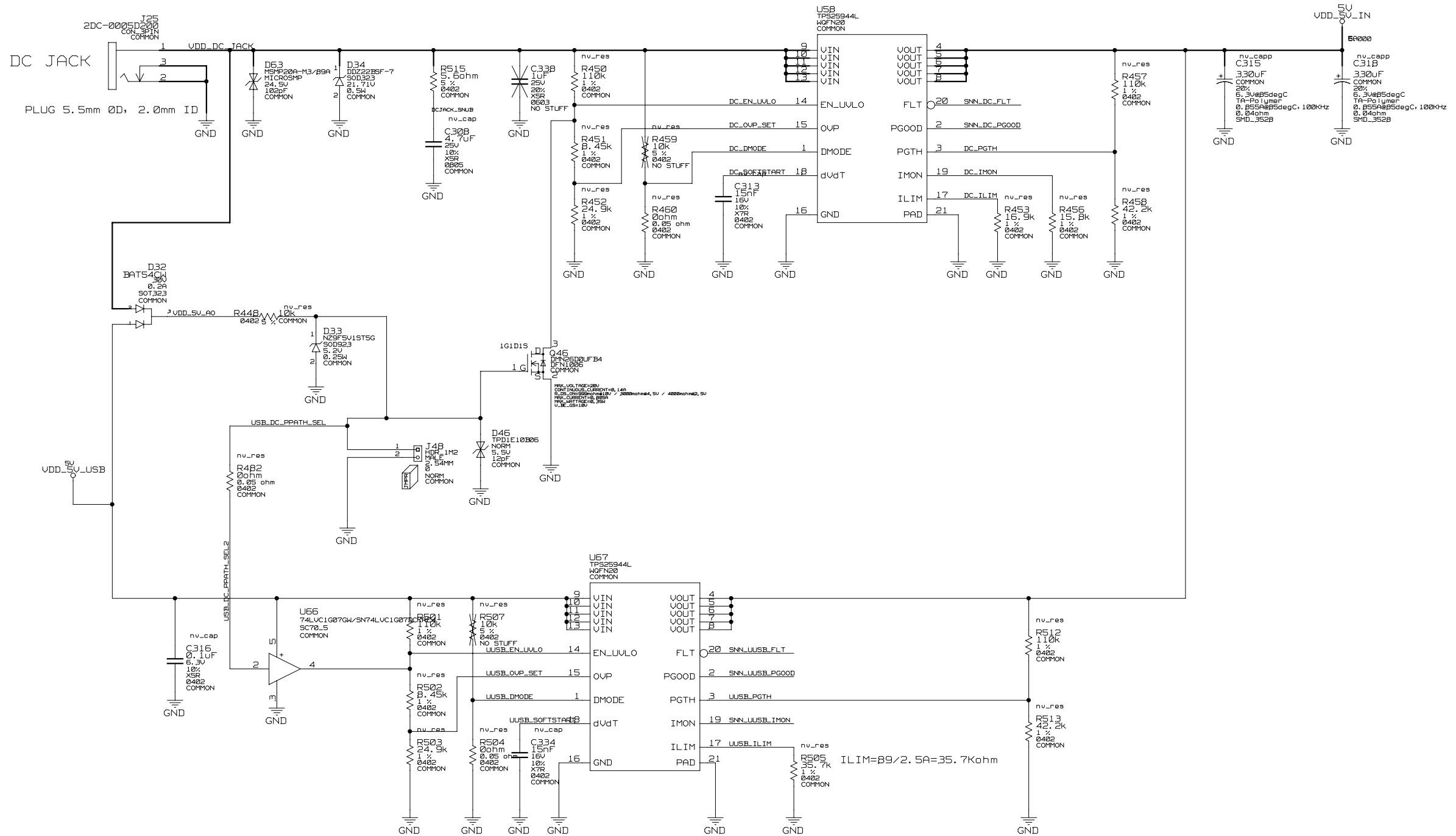
USB 3.0 TYPE A x2 CONNECTOR (1 OF 2)



USB 3.0 TYPE A x2 CONNECTOR (2 OF 2)



# DC JACK AND uUSB POWER SOURCE SELECTION



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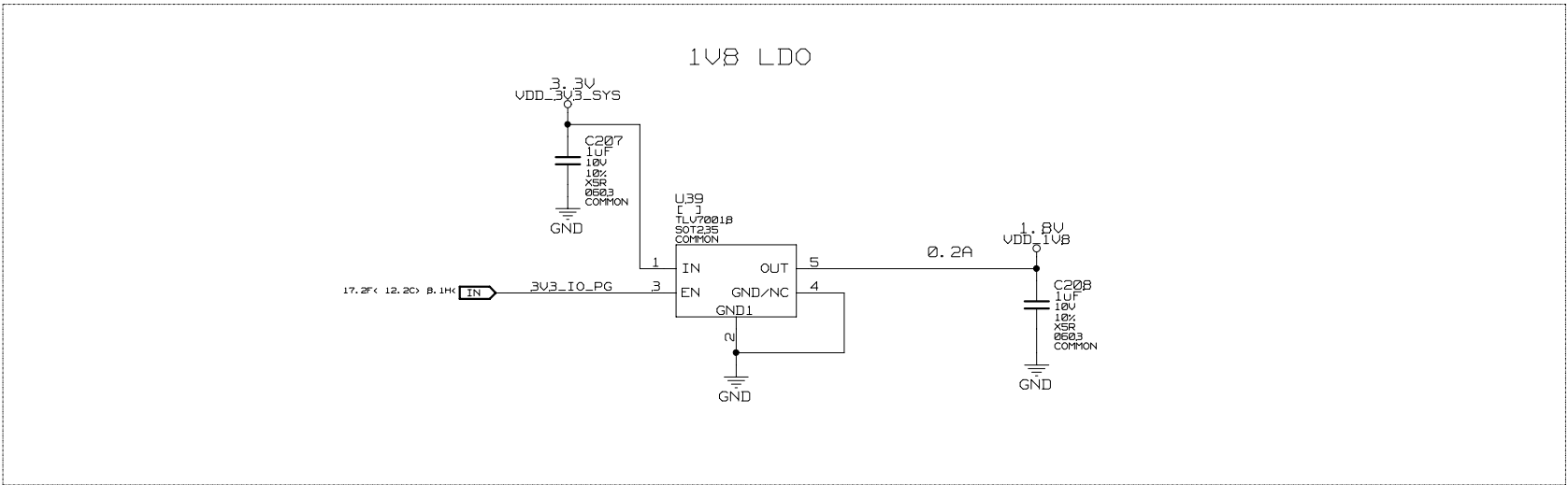
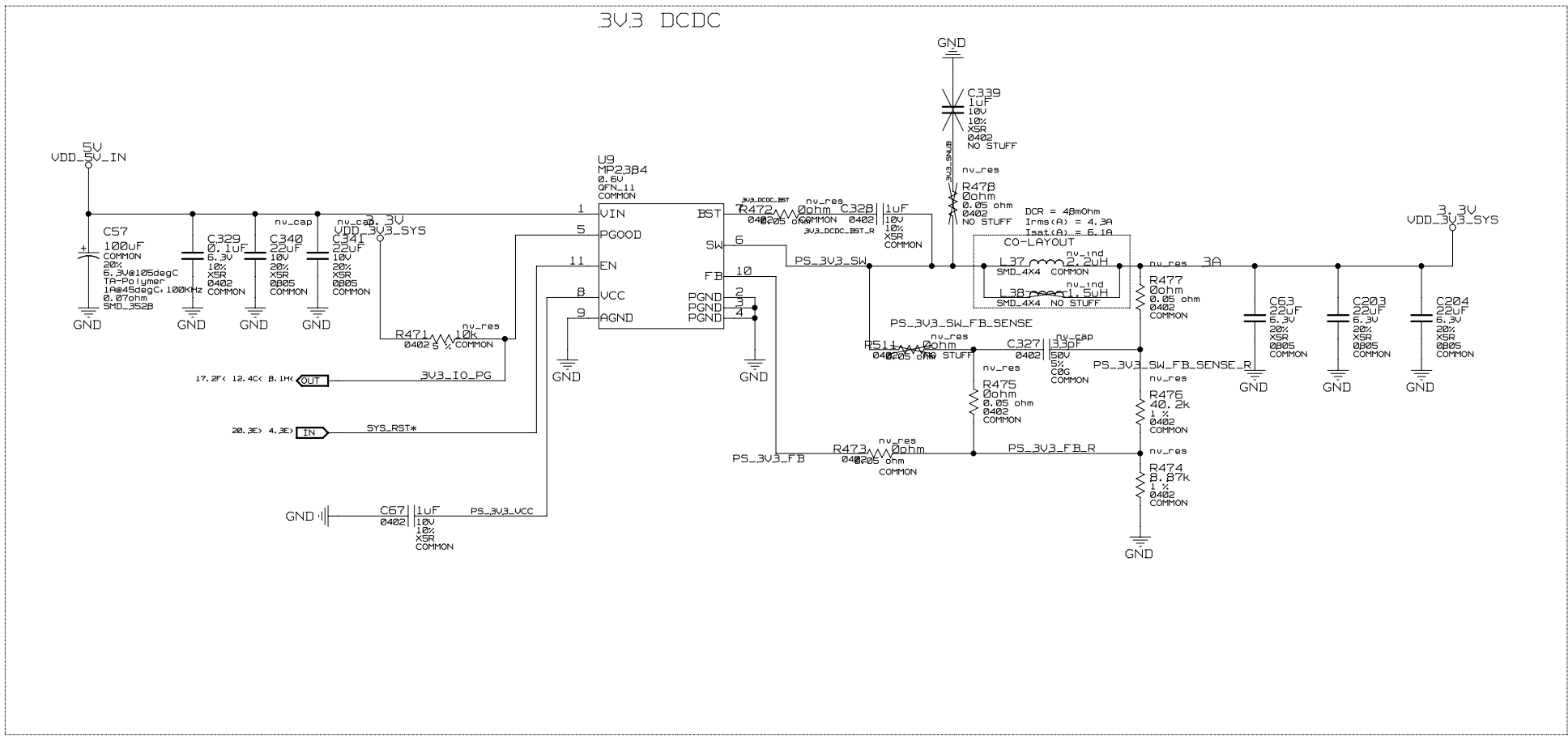


ASSEMBLY	Jetson Nano Carrier Board
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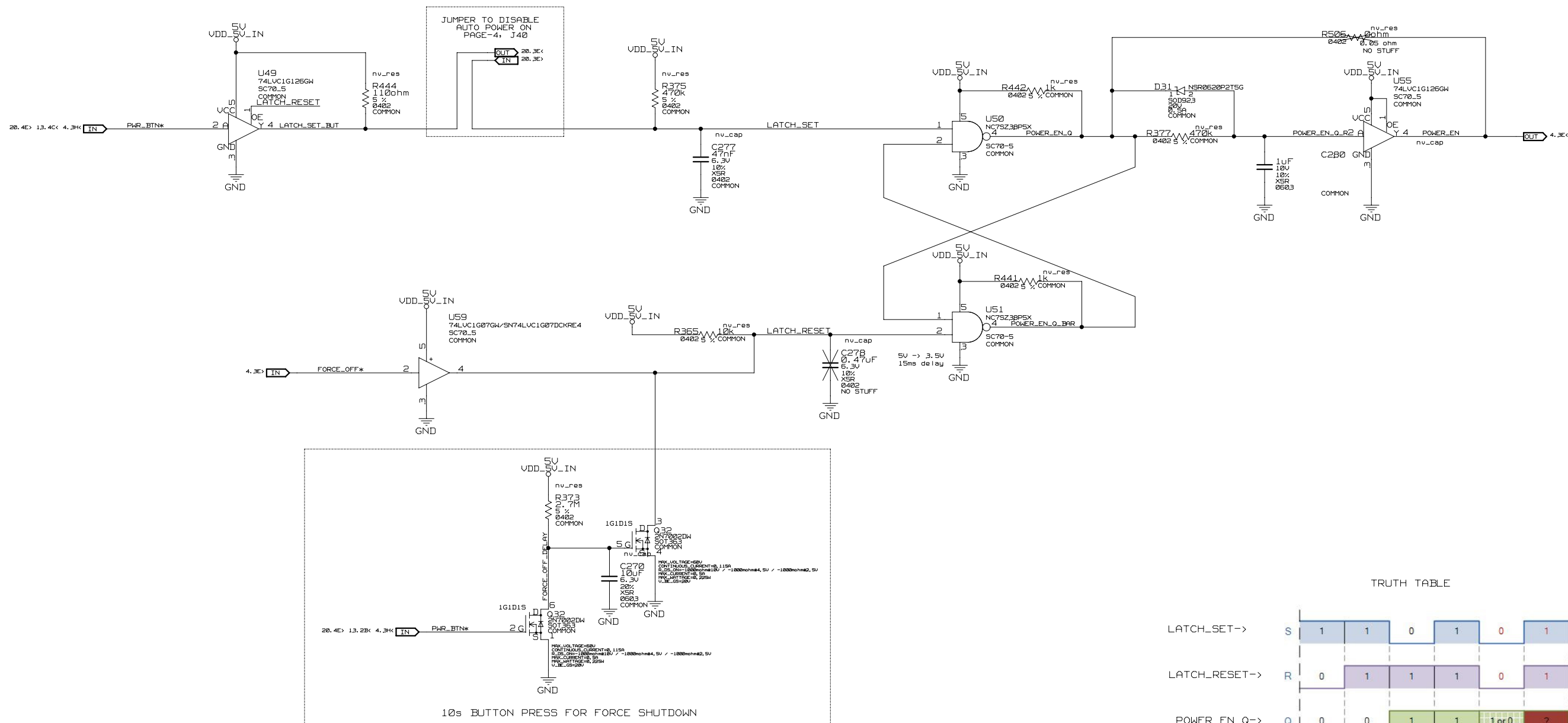
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# 3V3 & 1V8 POWER SUPPLIES



Module Power ON/OFF Logic



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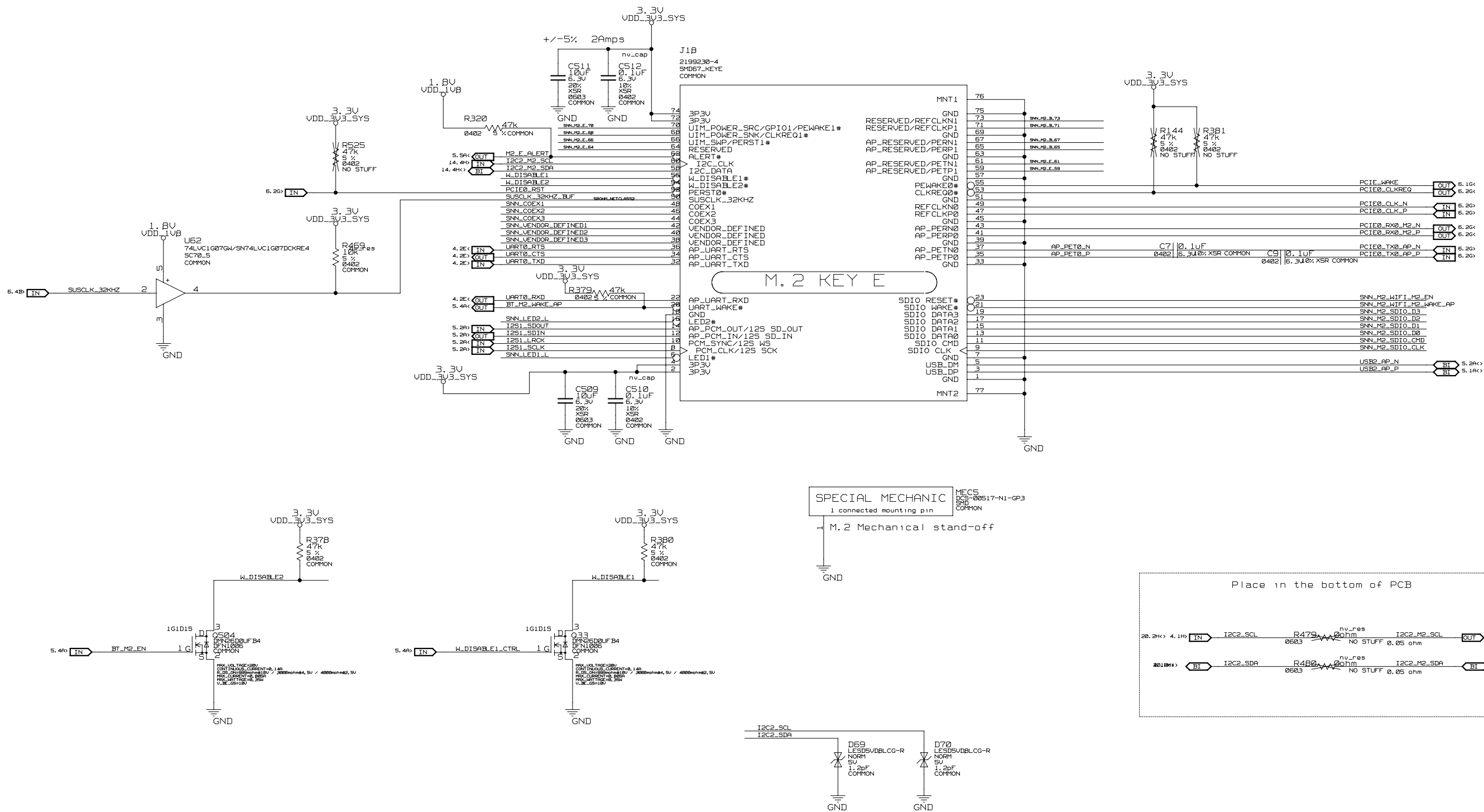
ASSEMBLY Jetson Nano Carrier Board  
PAGE DETAIL Power ON/OFF Logic

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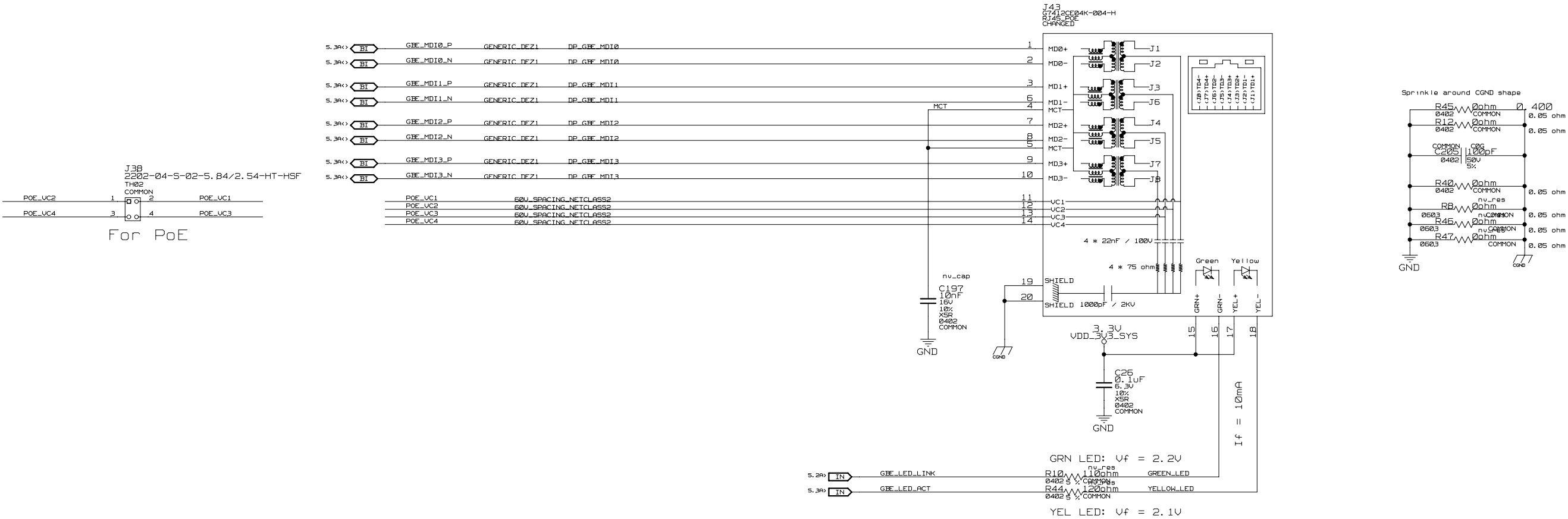
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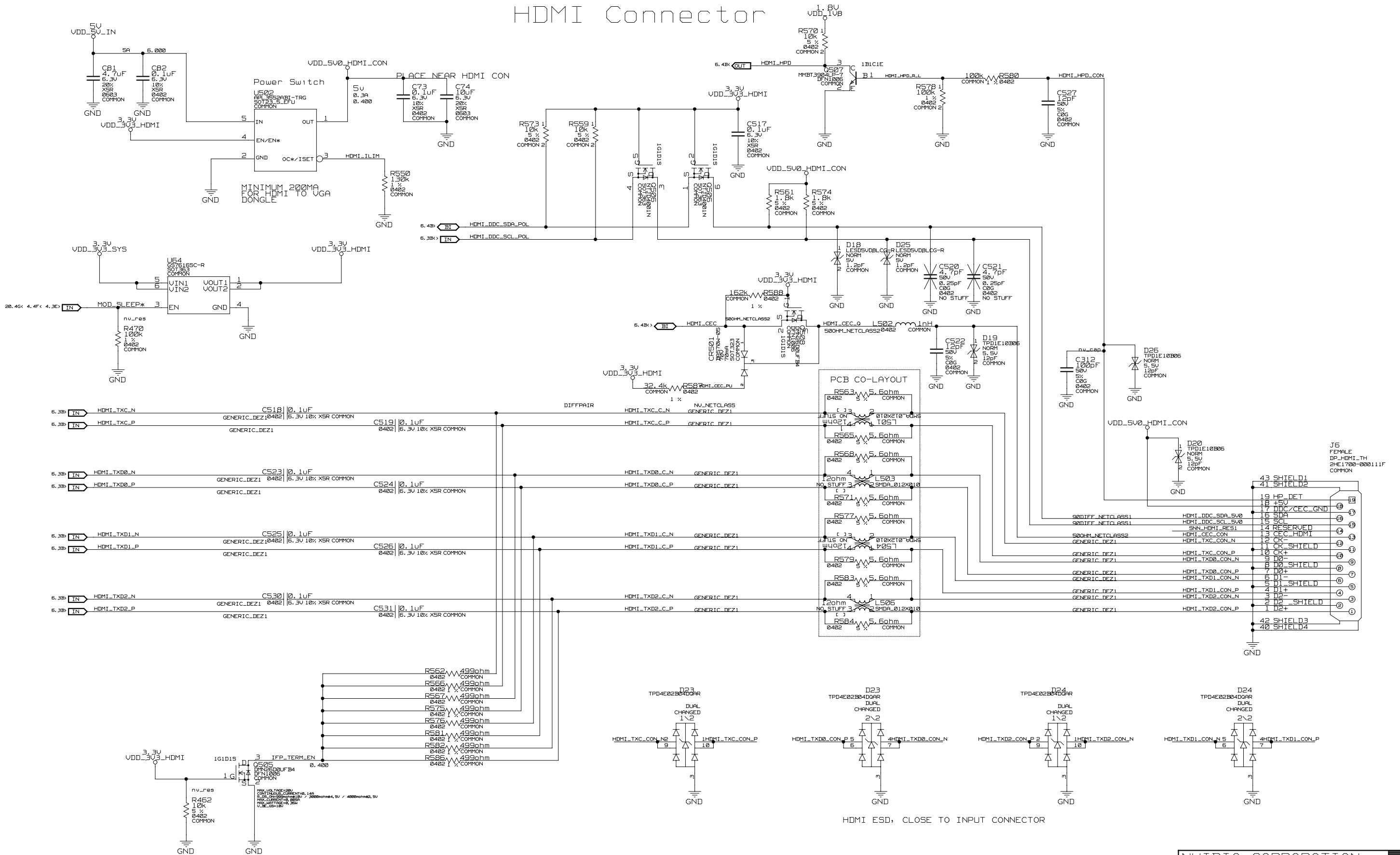
# M.2 KEY E



Gigabit Ethernet with PoE



# HDMI Connector



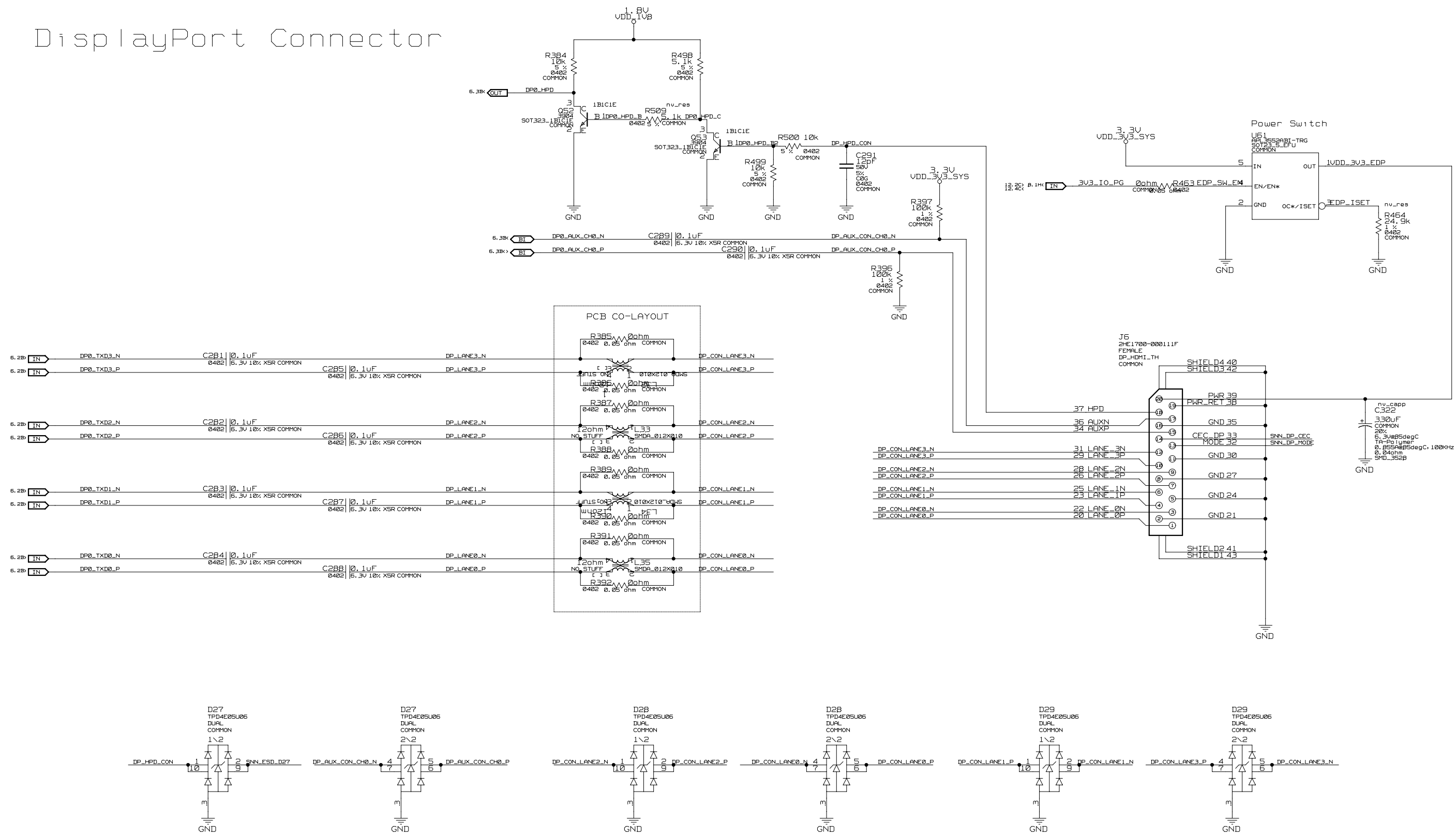
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PAGE DETAIL	HDMI



# DisplayPort Connector



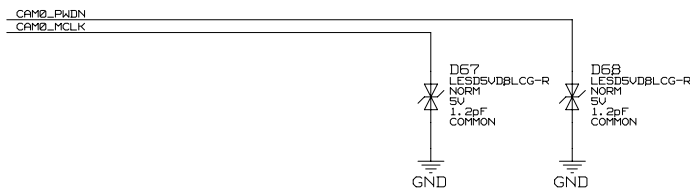
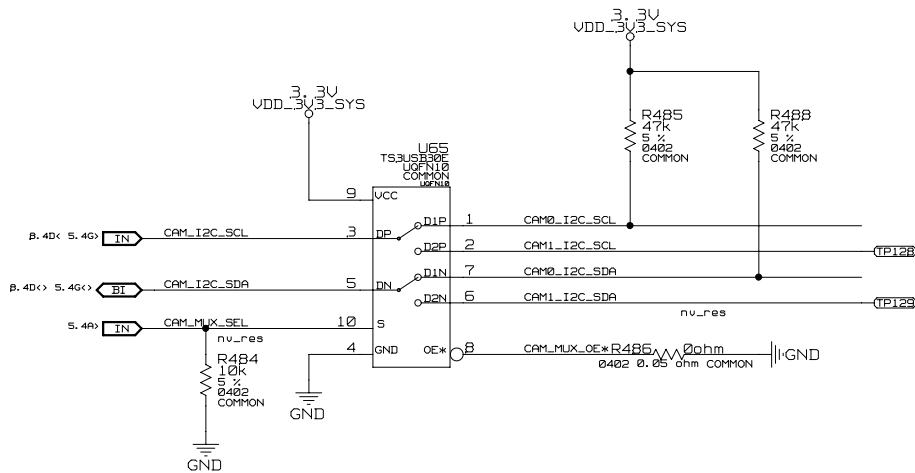
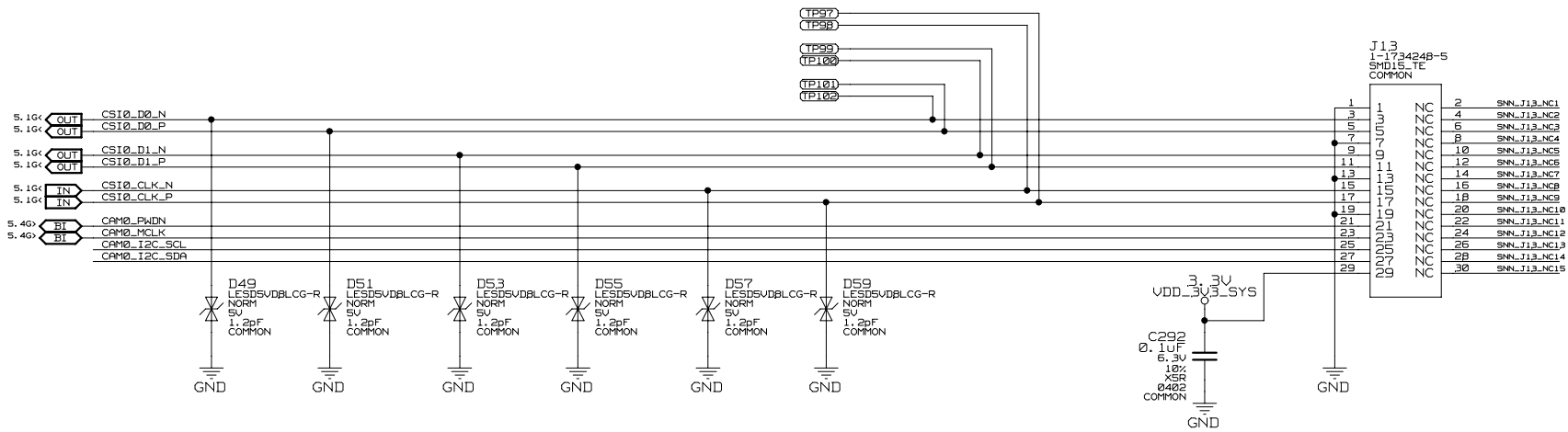
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CSI CAM CONNECTOR



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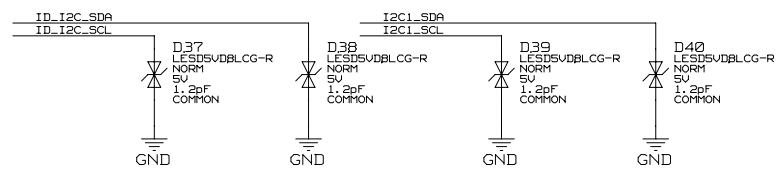
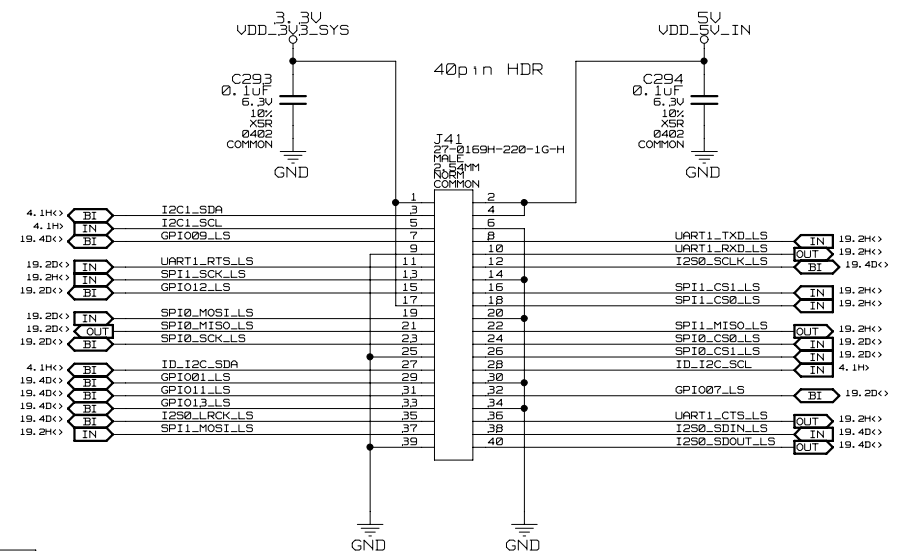
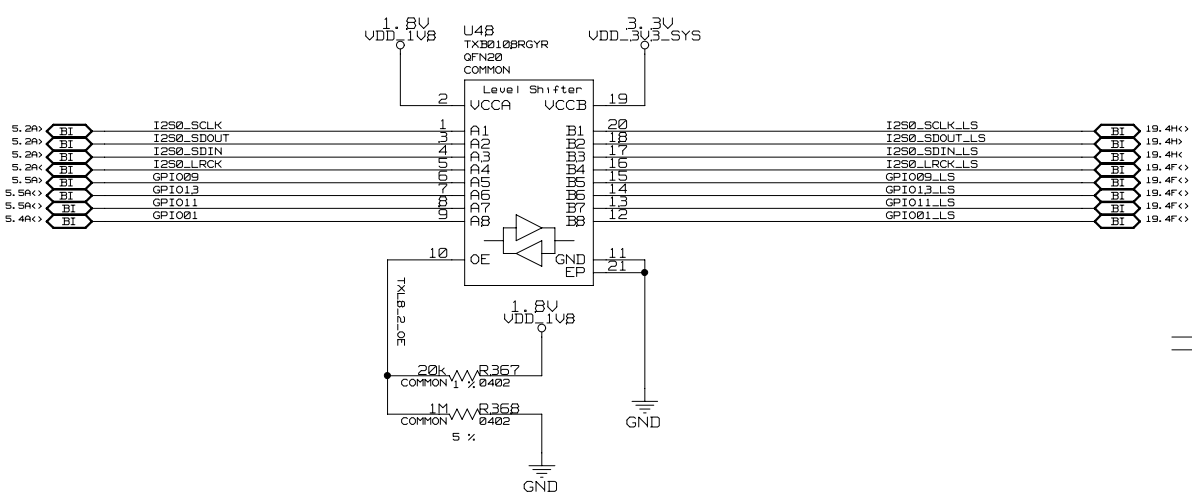
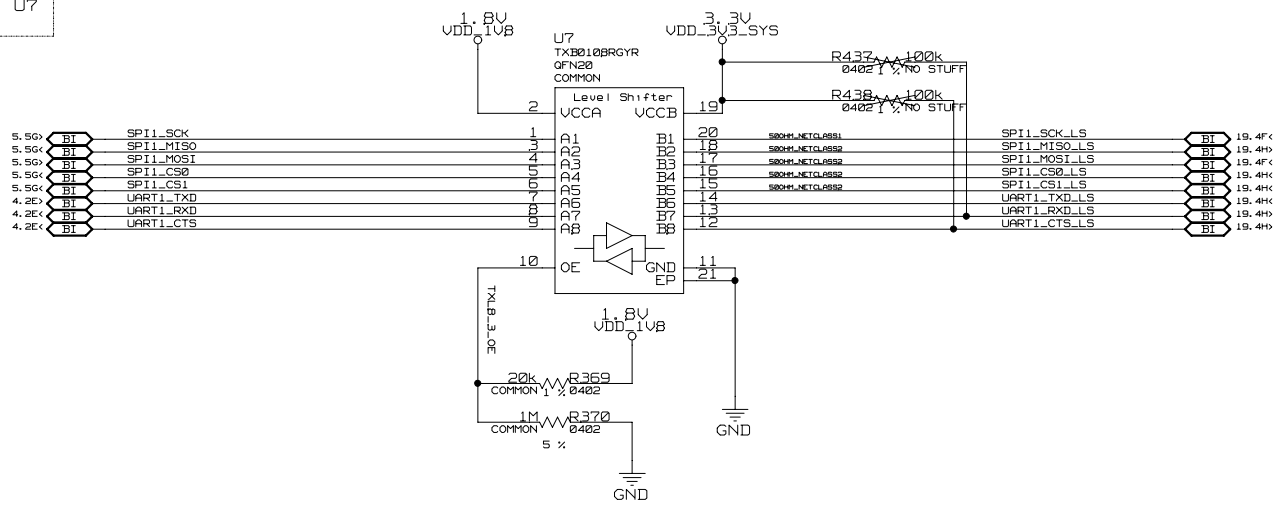
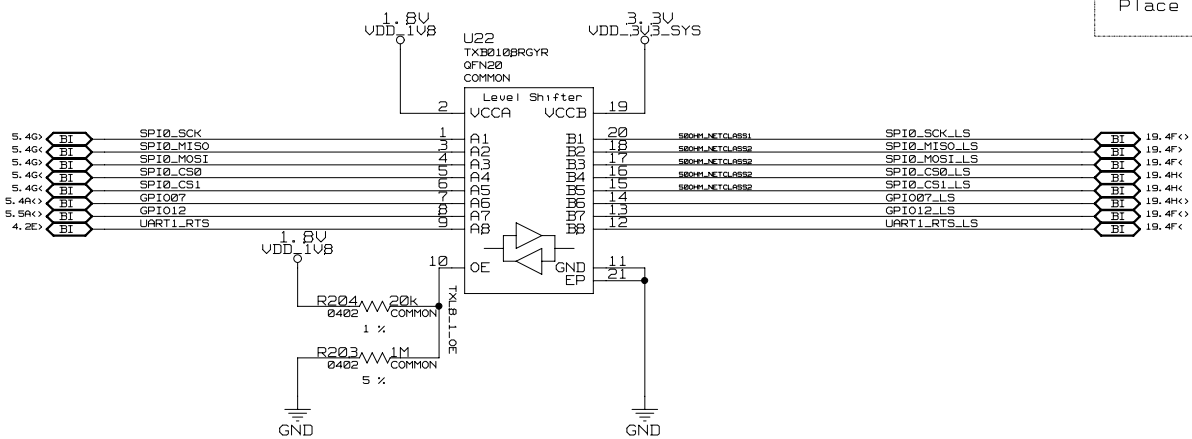
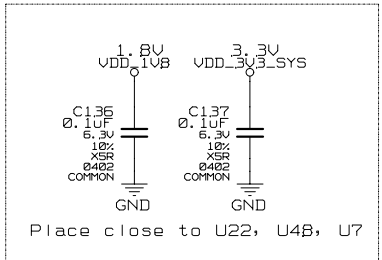


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PAGE DETAIL CAM Connector

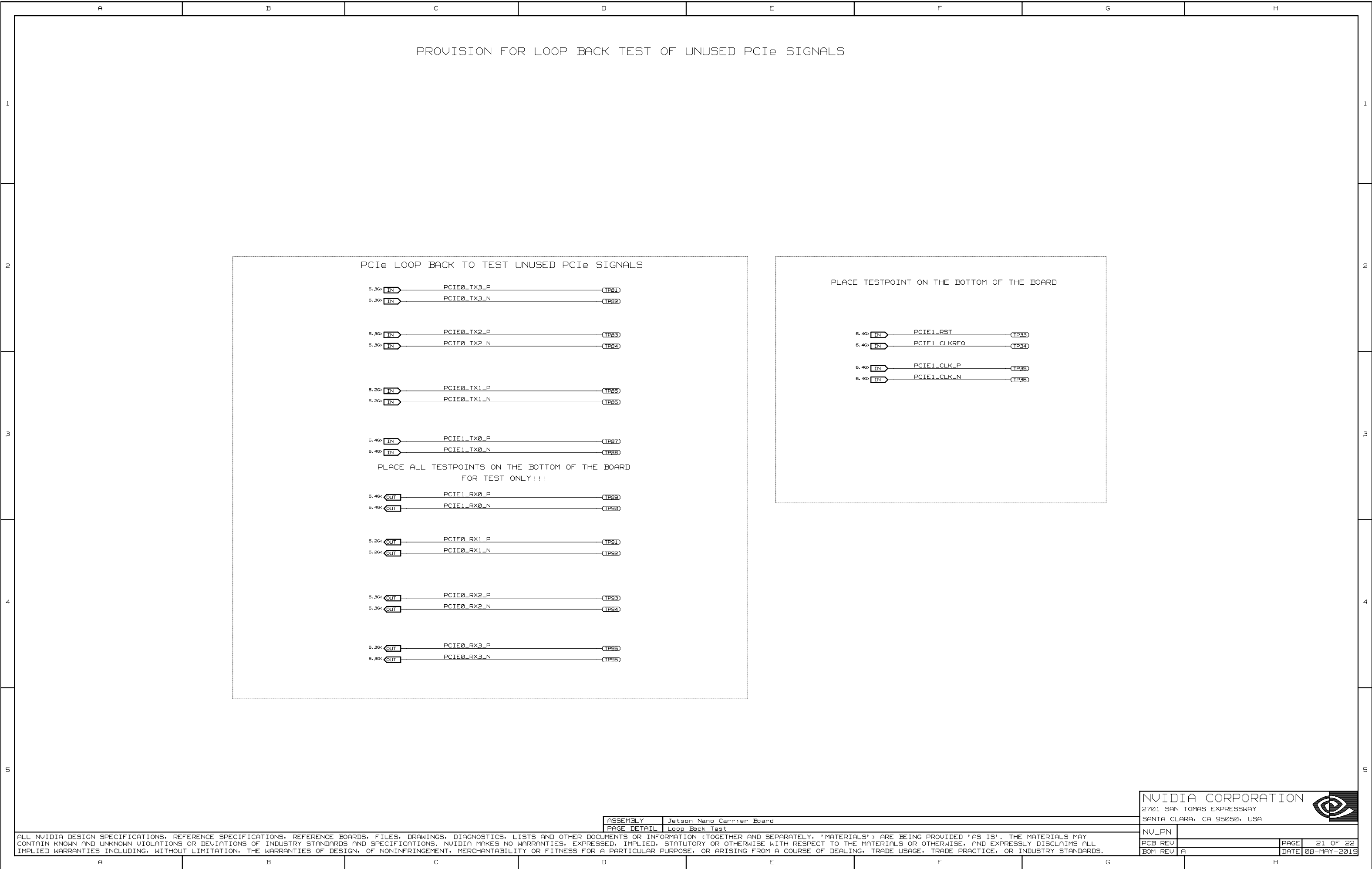
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# 40PIN GPIO EXPANSION HEADER & LEVEL SHIFTERS







Mechanical

