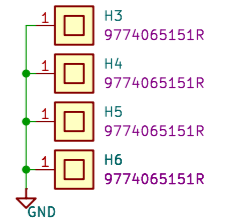
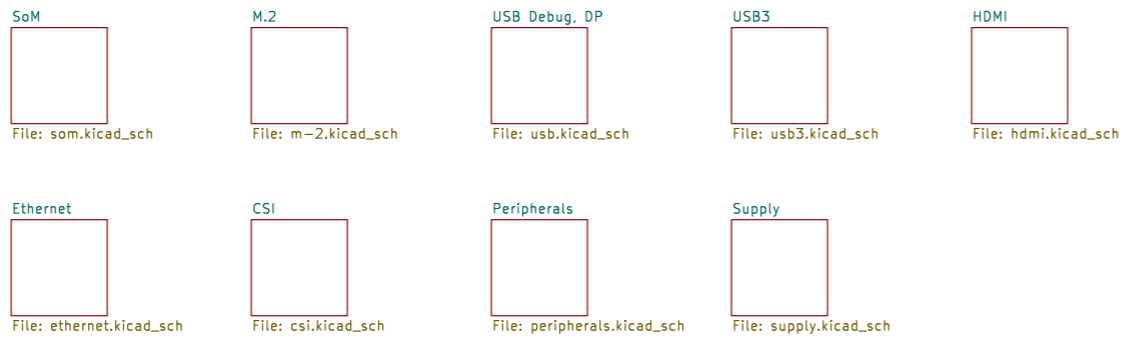
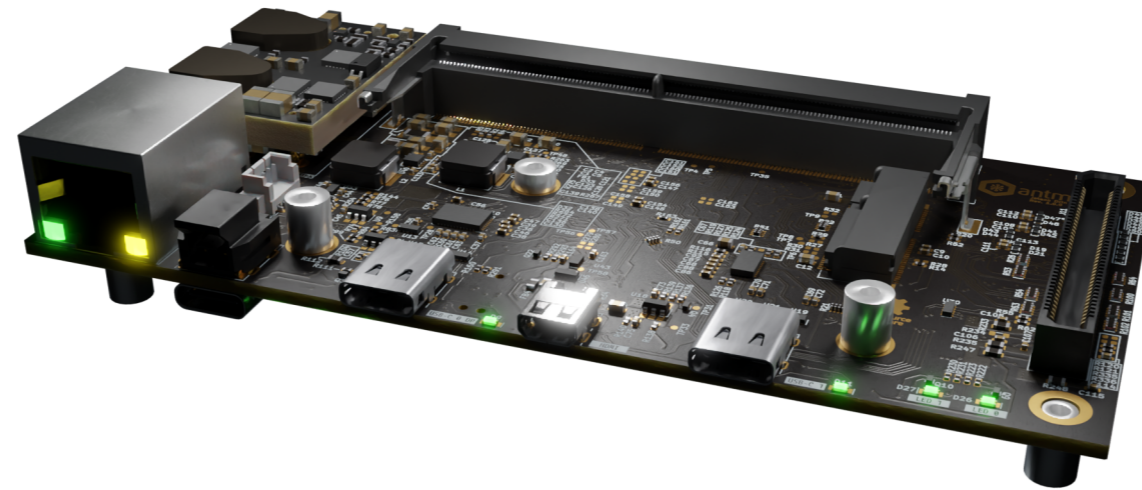
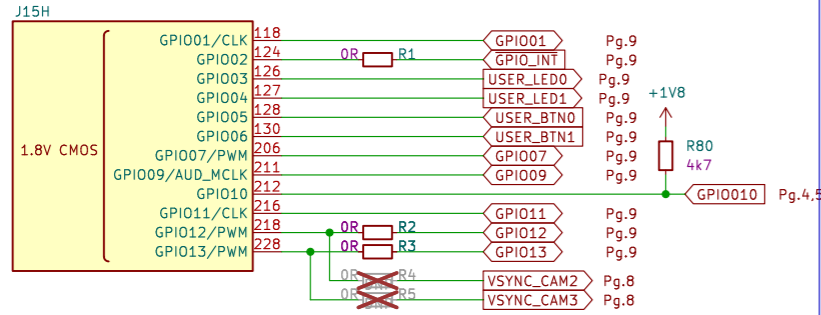


Jetson Orin Baseboard

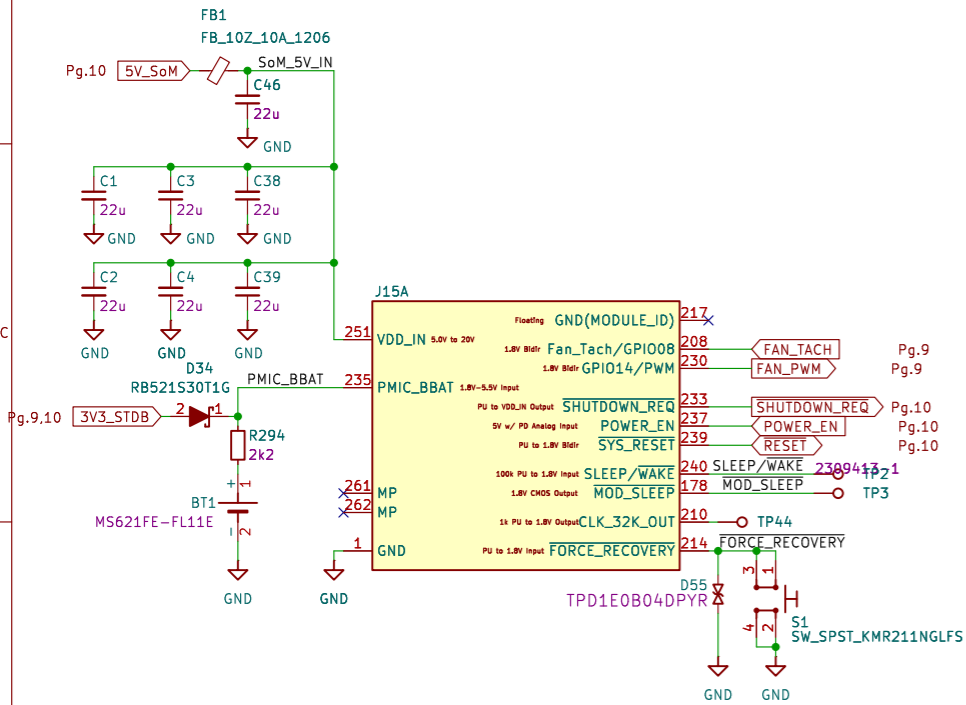
github.com/antmicro/jetson-orin-baseboard



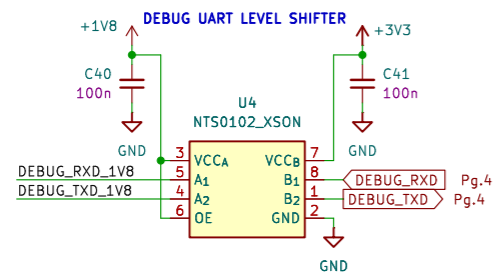
GPIO



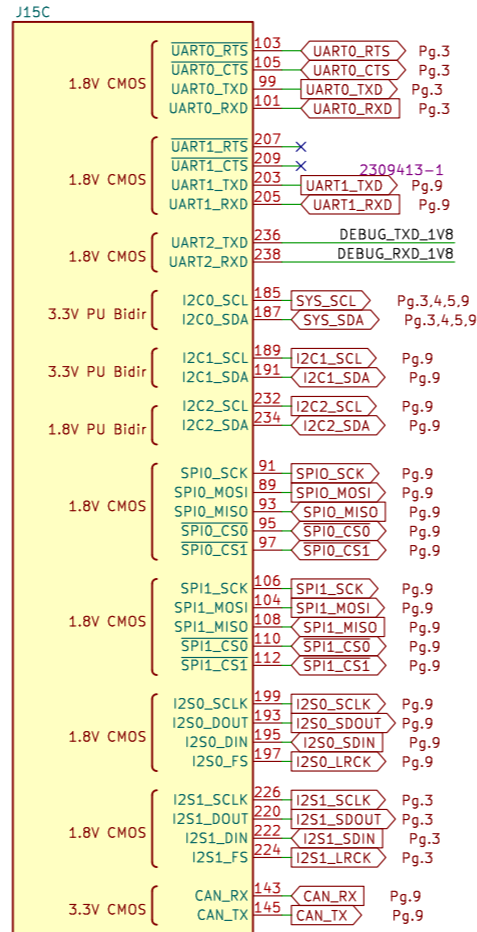
Power & CTRL



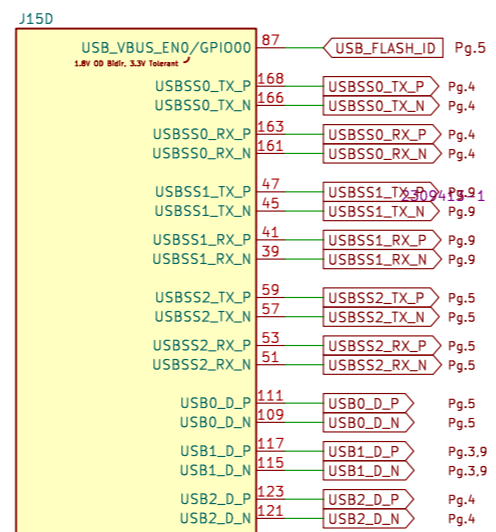
Miscellaneous



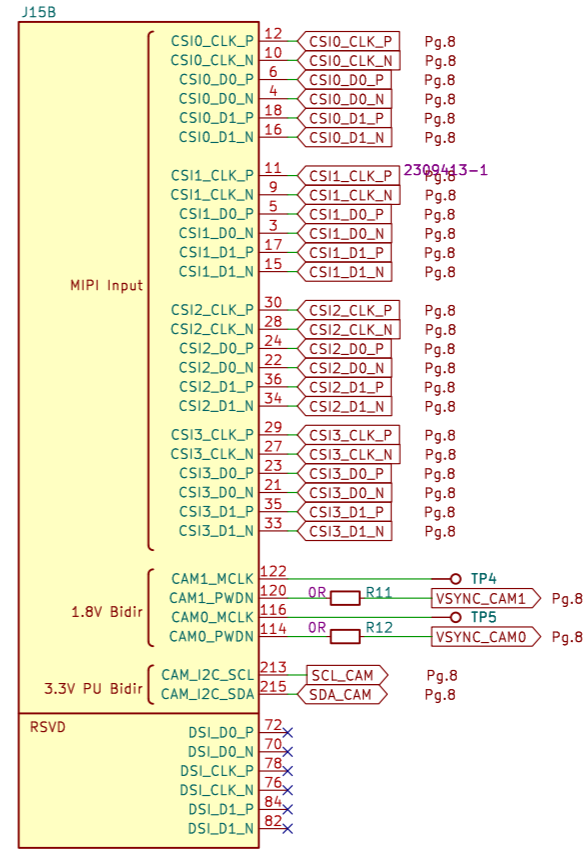
UART/I2C/SPI/I2S/CAN



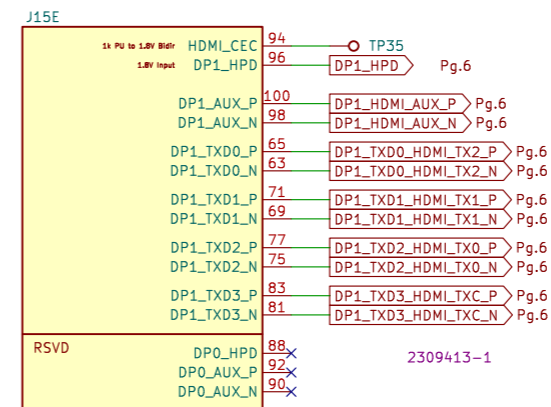
USB



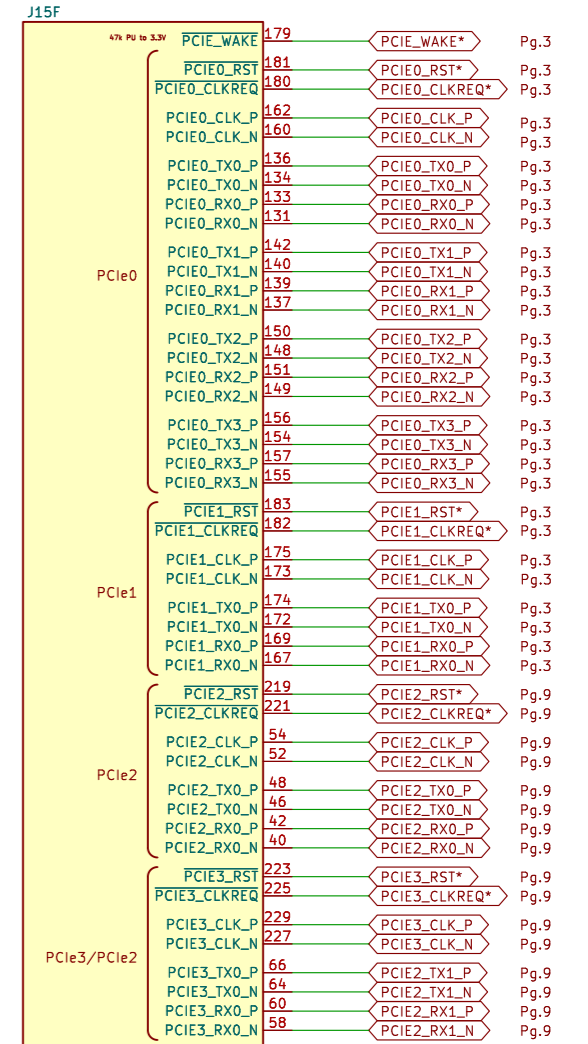
CSI



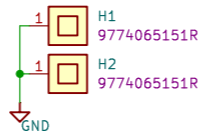
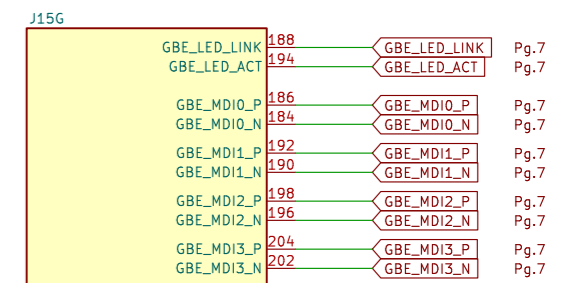
Video Output



PCIe



GbE



Jetson-Orin-NX-Nano
900-13767-0000-000
Nvidia

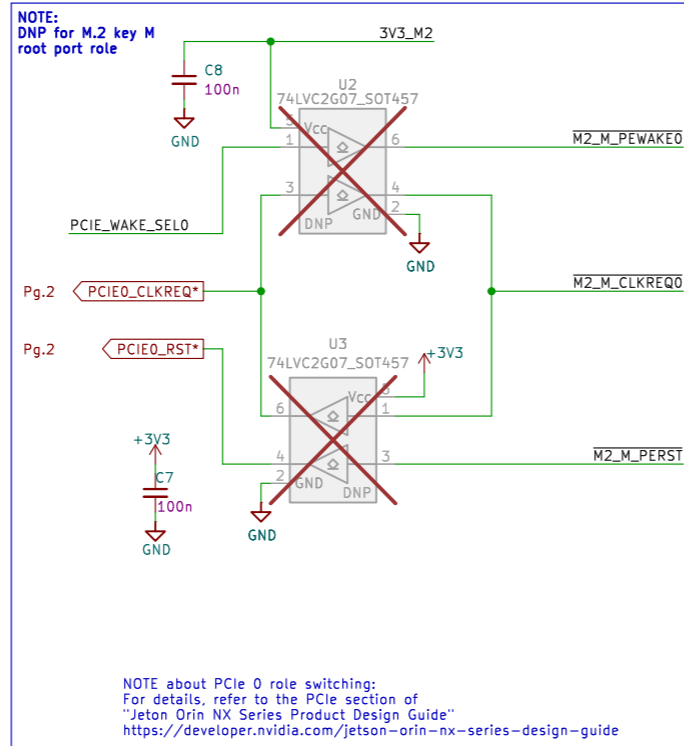
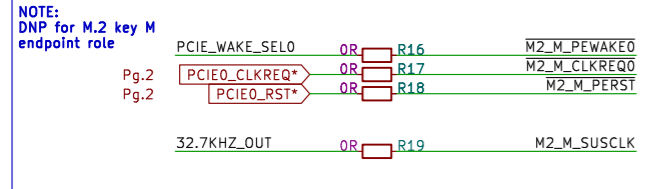
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Sheet: /SoM/
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Title: Jetson Orin Baseboard

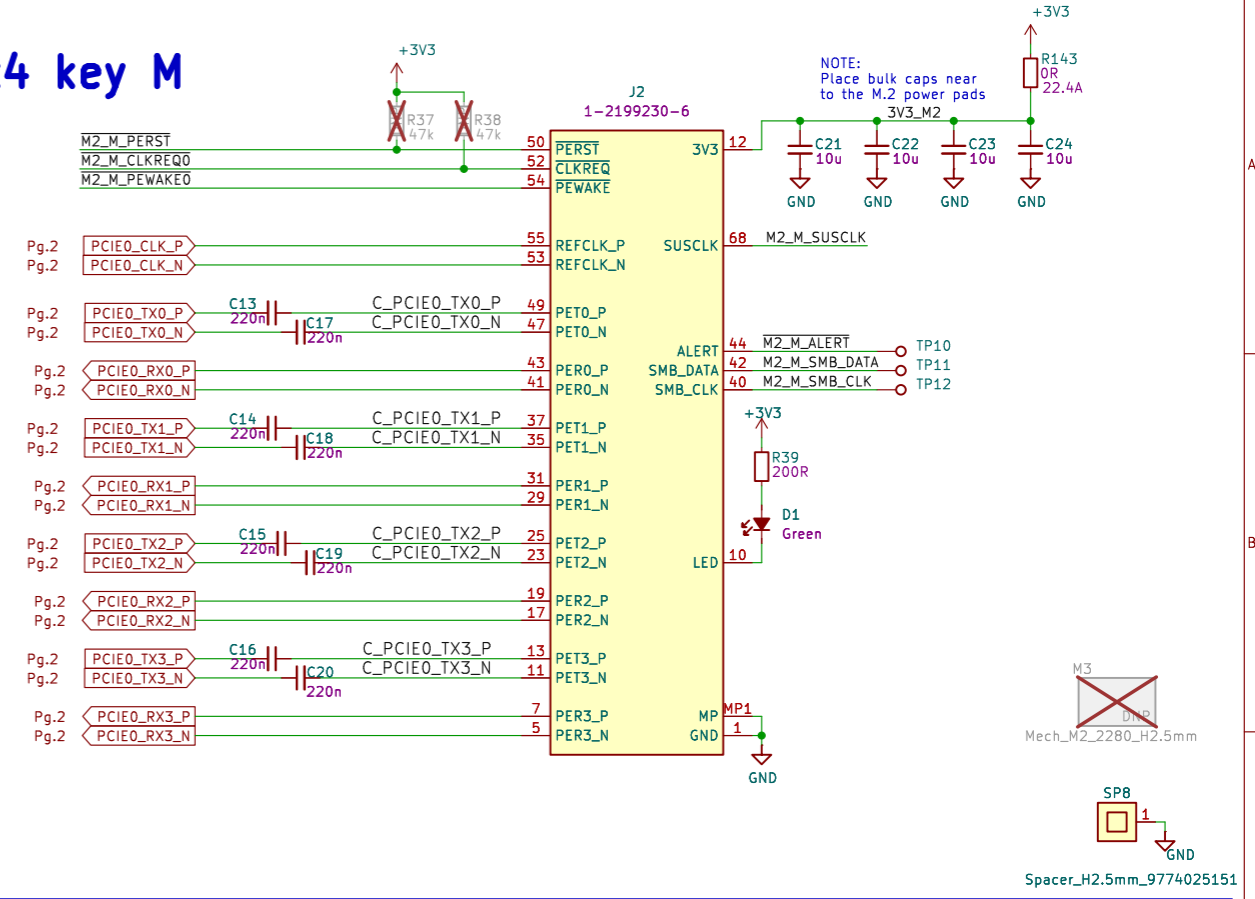
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KiCad E.D.A. kicad 7.0.10+1

Rev: 1.1.6
Id: 2/10

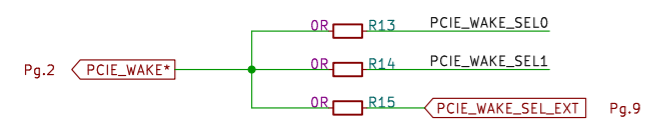
PCIe0 Root Port / Endpoint mode selector



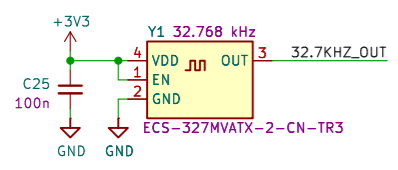
PCIe0 1x4 key M



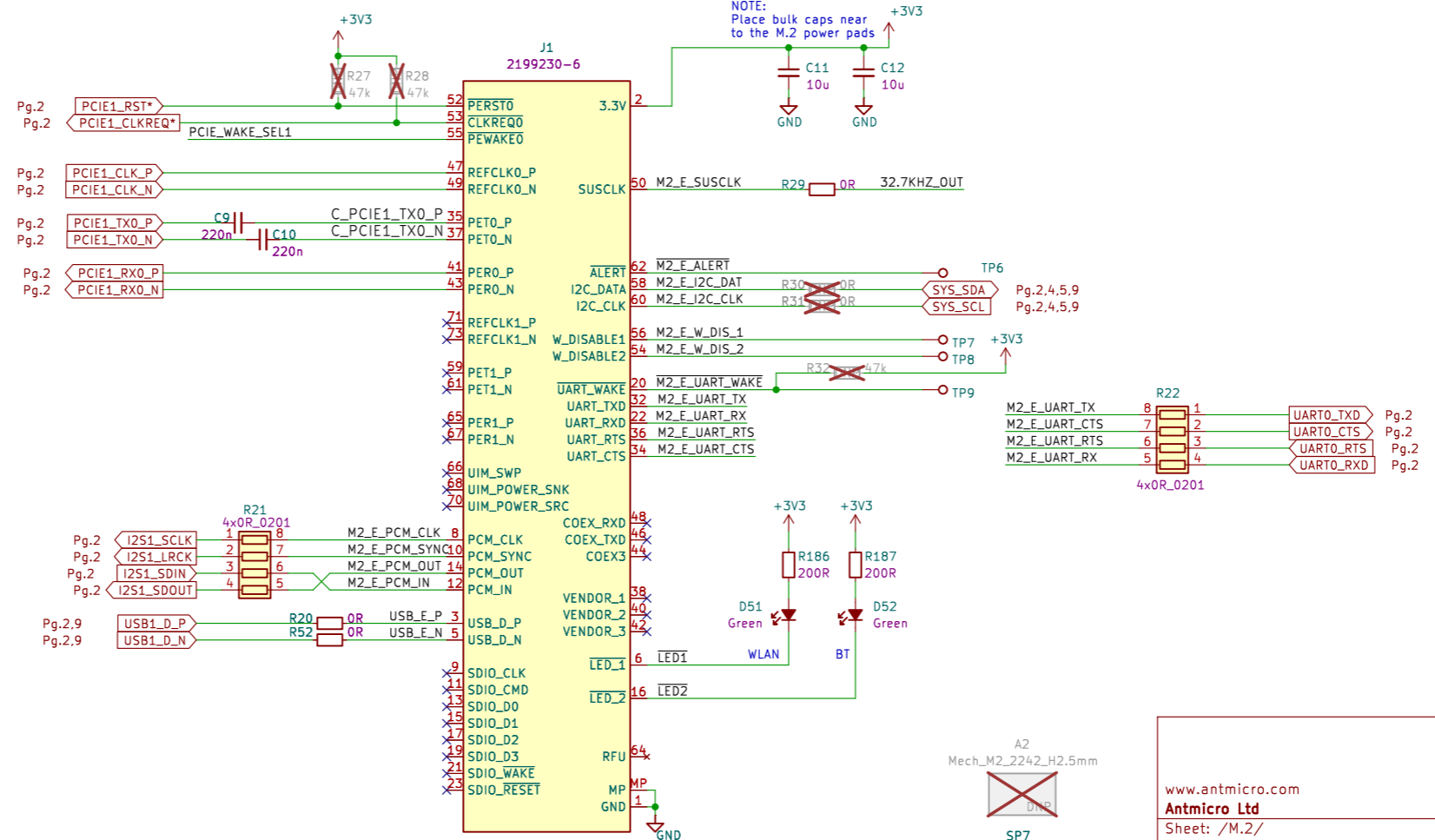
M.2 PCIE_WAKE selector



SUSCLK SOURCE

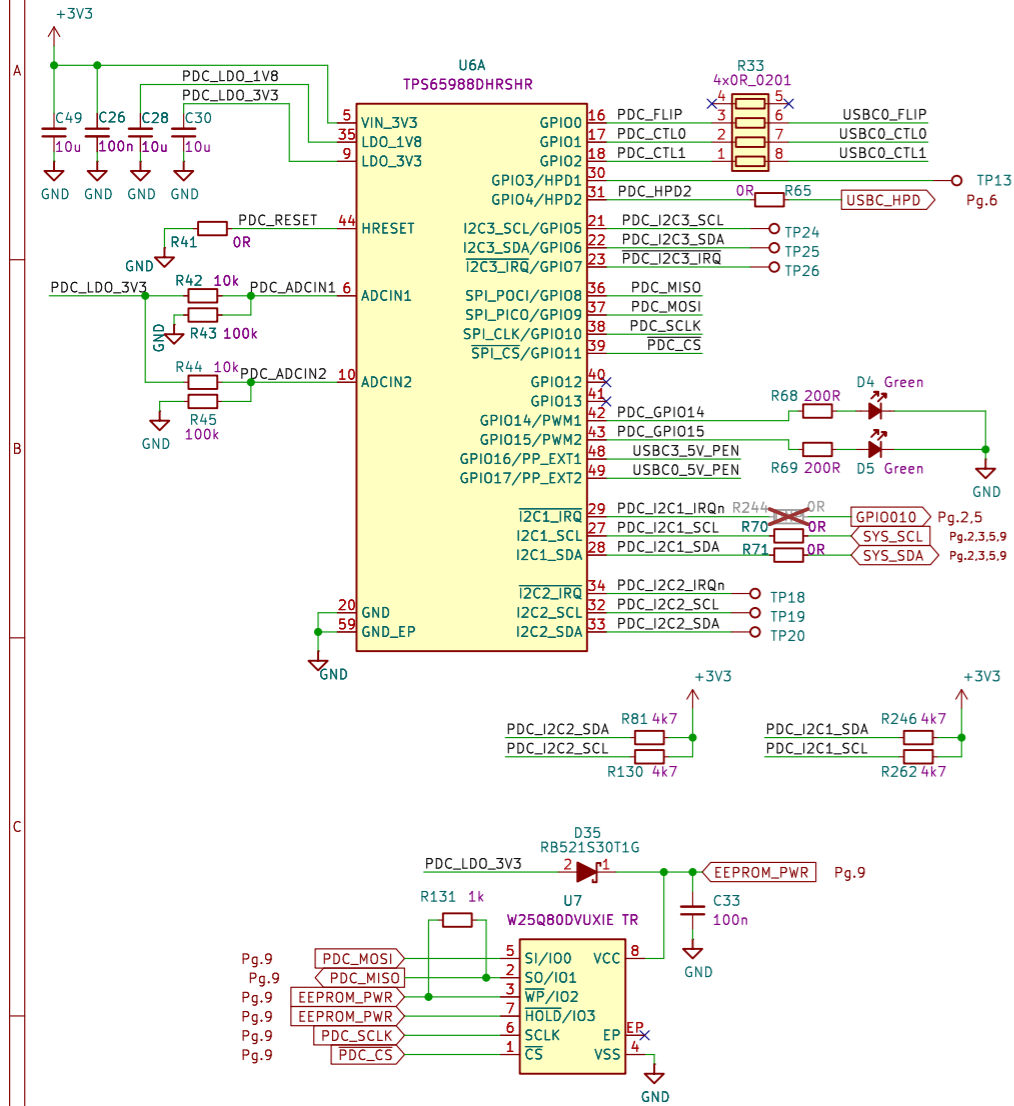


PCIe1 1x1 key E

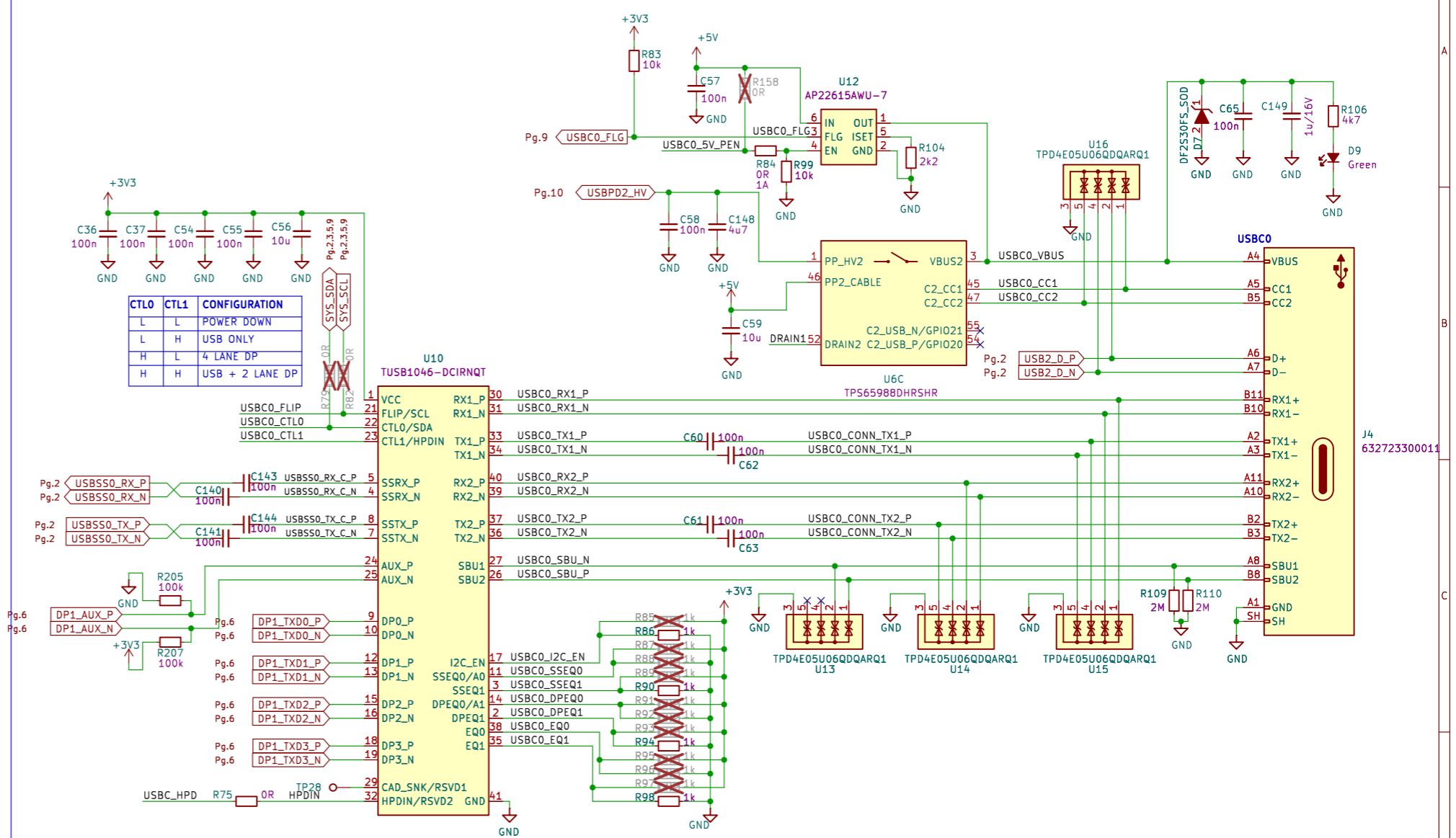


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File: m-2.kicad_sch	
Title: Jetson Orin Baseboard	
Size: A3	Date: 2024-06-06
KiCad E.D.A. kicad 7.0.10+1	Rev: 1.1.6
Id: 3/10	

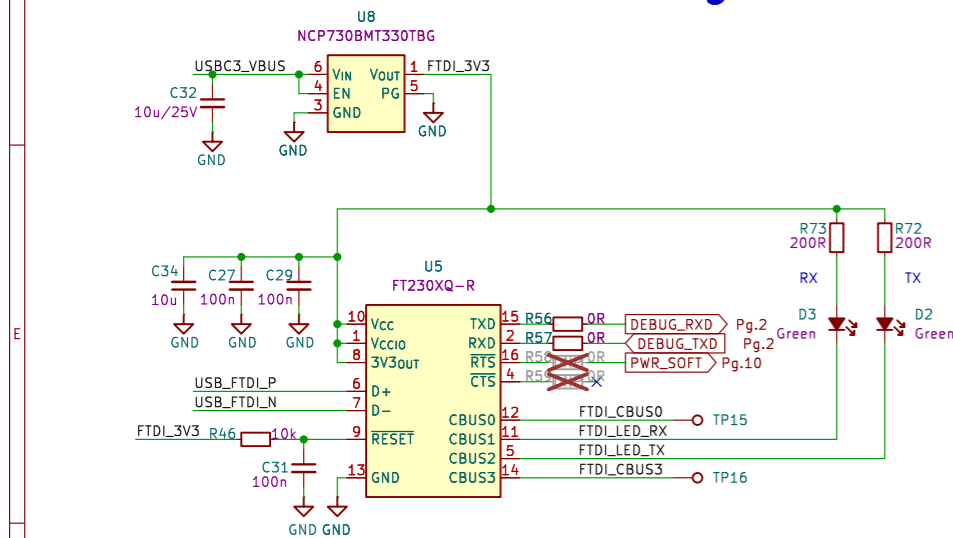
USB PD Controller



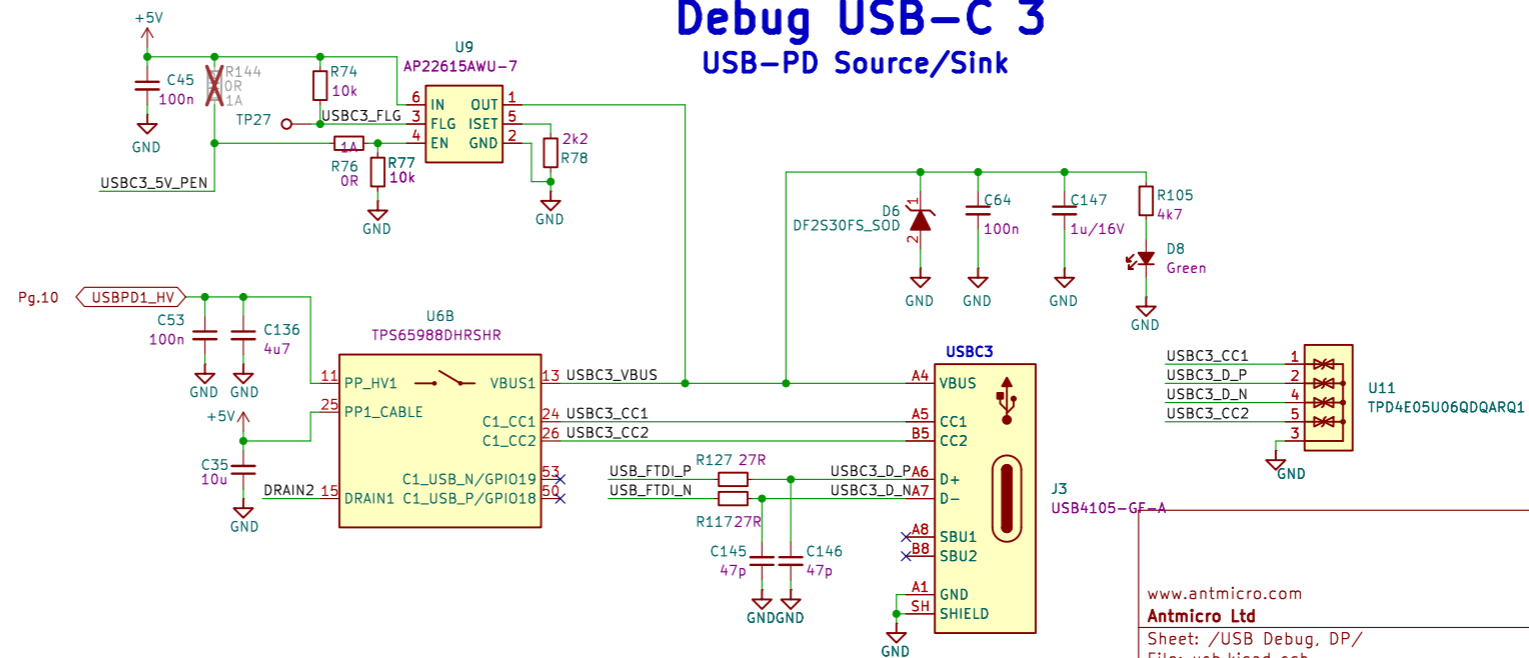
USB-C 0 Display Port alt mode USB-PD Source/Sink



USB-UART Bridge



Debug USB-C 3 USB-PD Source/Sink



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Sheet: /USB Debug, DP/
File: usb.kicad_sch

Title: Jetson Orin Baseboard

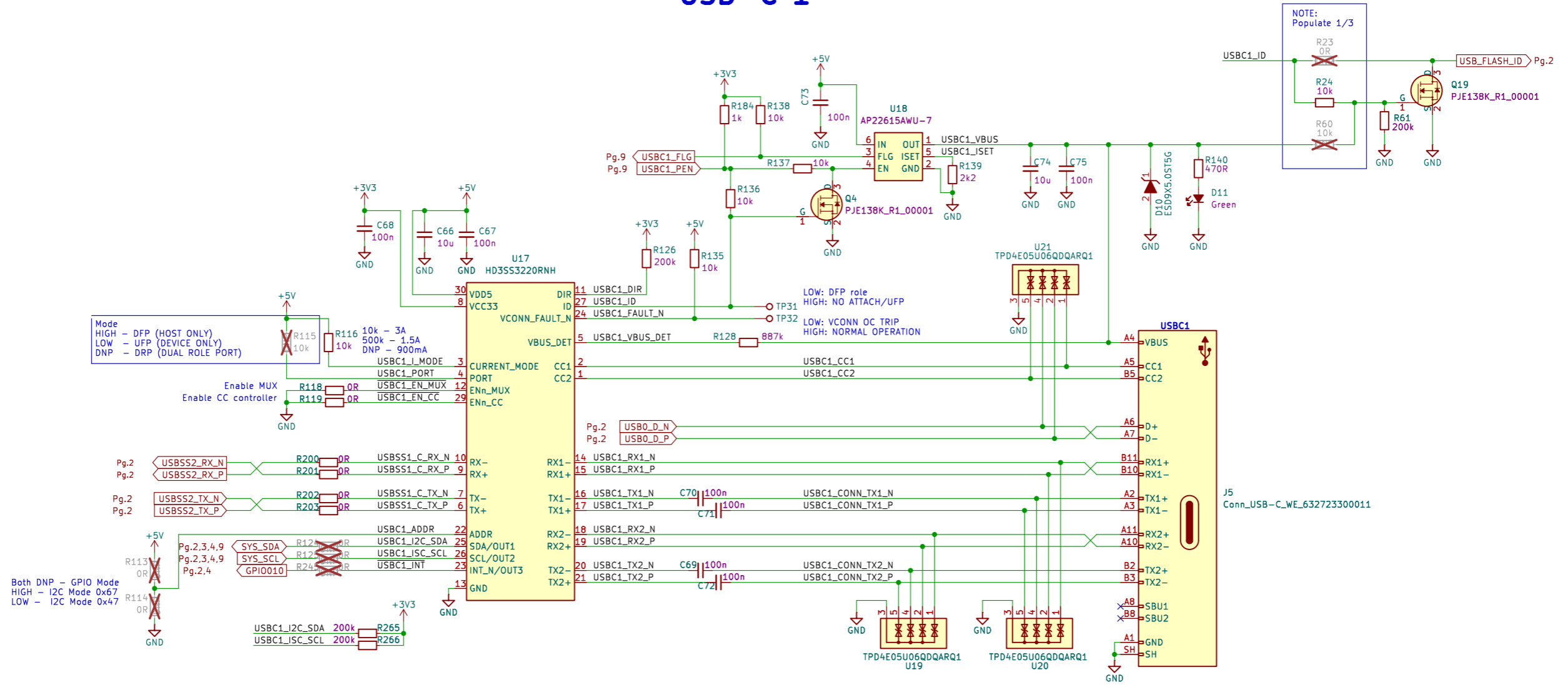
Size: A3 Date: 2024-06-06

KiCad E.D.A. kicad 7.0.10+1

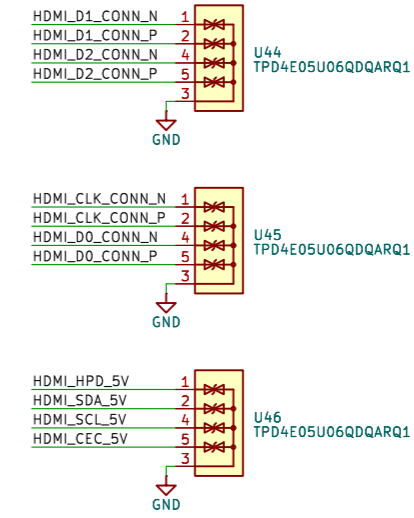
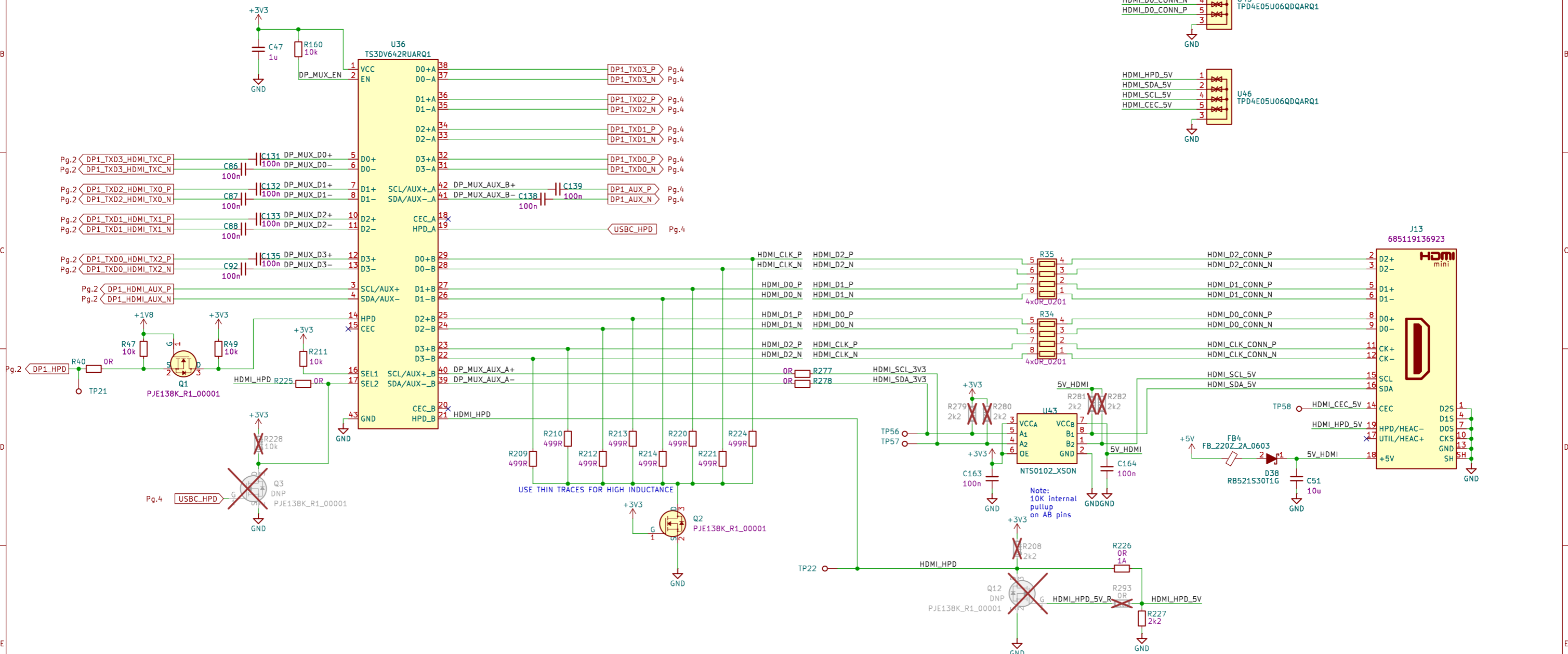
Rev: 1.1.6

Id: 4/10

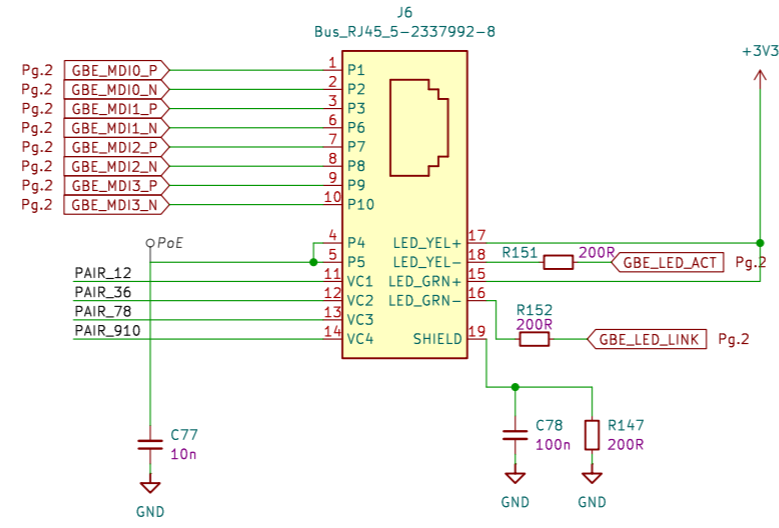
USB-C 1



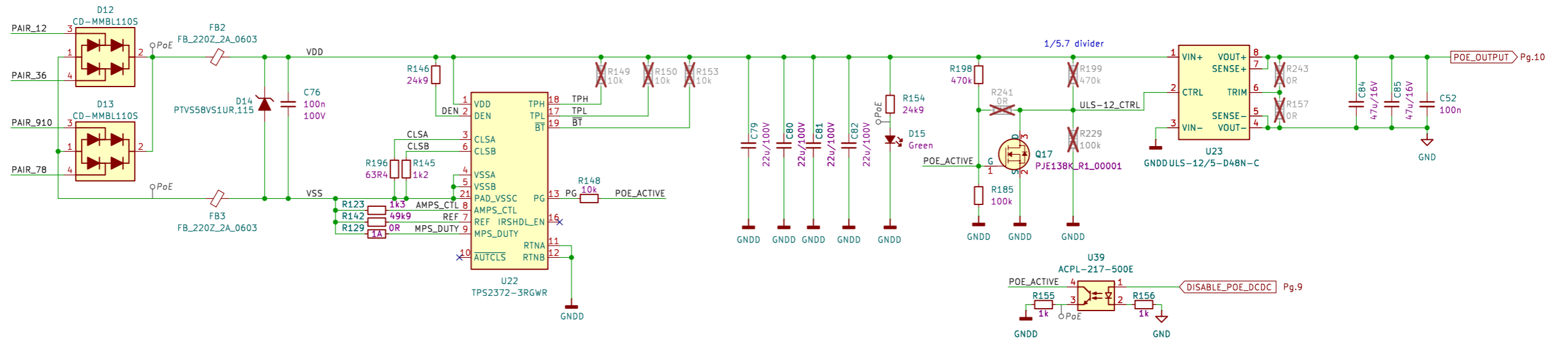
HDMI Connector



Ethernet Connector



Power over Ethernet



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Sheet: /Ethernet/

File: ethernet.kicad_sch

Title: Jetson Orin Baseboard

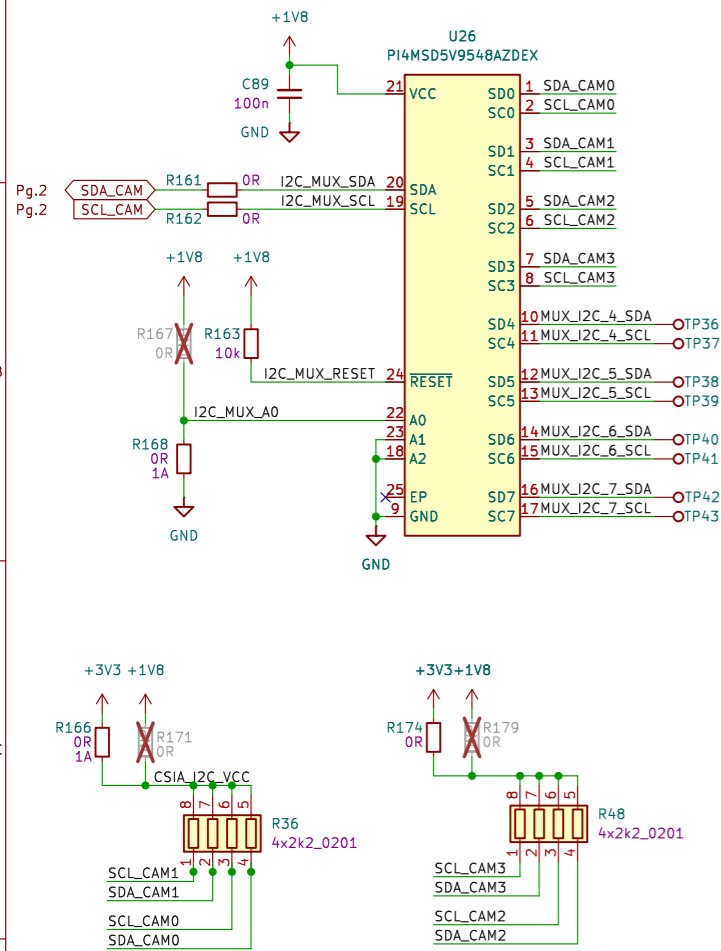
Size: A3 Date: 2024-06-06

KiCad E.D.A. kicad 7.0.10+1

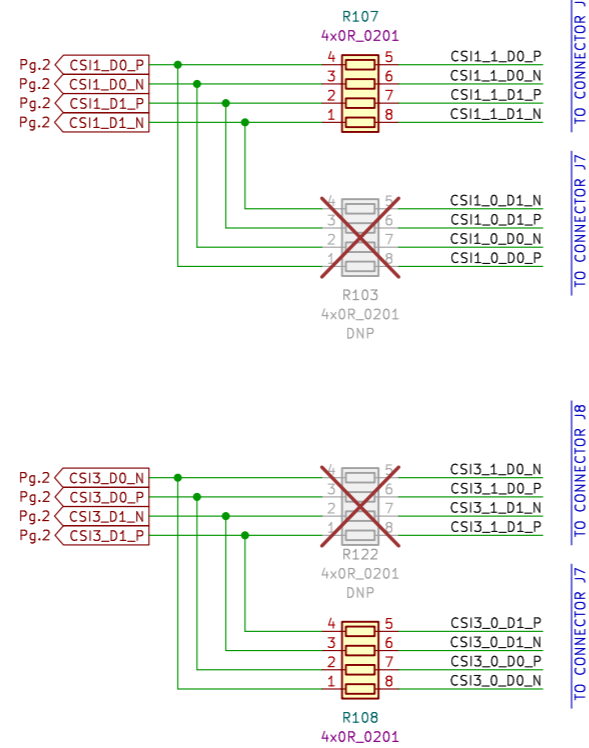
Rev: 1.1.6

Id: 7/10

I2C Mux



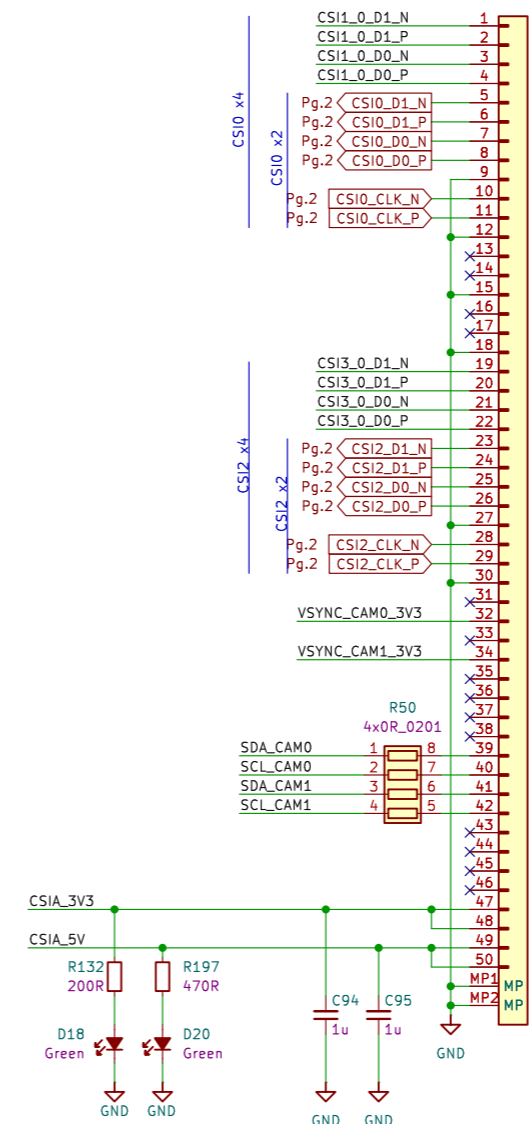
CSI Mux



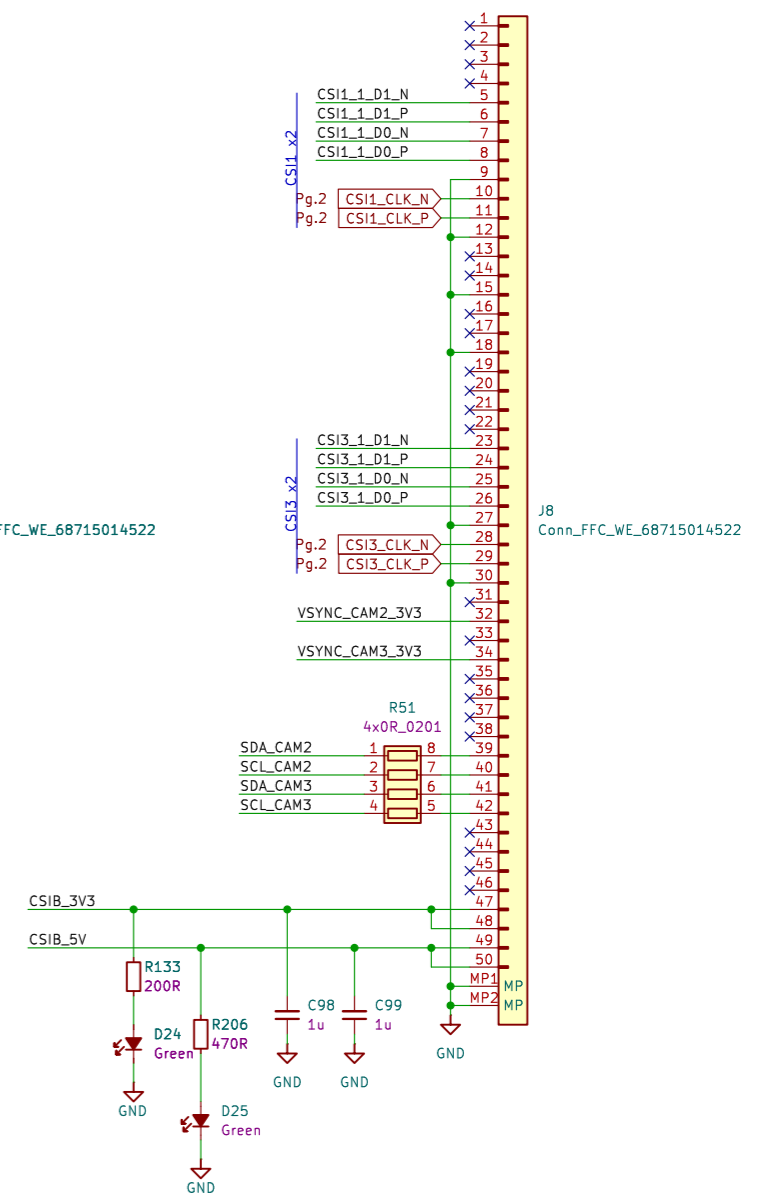
AVAILABLE CSI CONFIGURATIONS:

CONNECTOR J7	CONNECTOR J8
CSI0x4	NONE
CSI0x4	CSI2x2
CSI0x2	CSI2x4
CSI0x2	CSI1x2
CSI0x2	CSI3x2
CSI2x2	CSI1x2
CSI2x2	CSI3x2

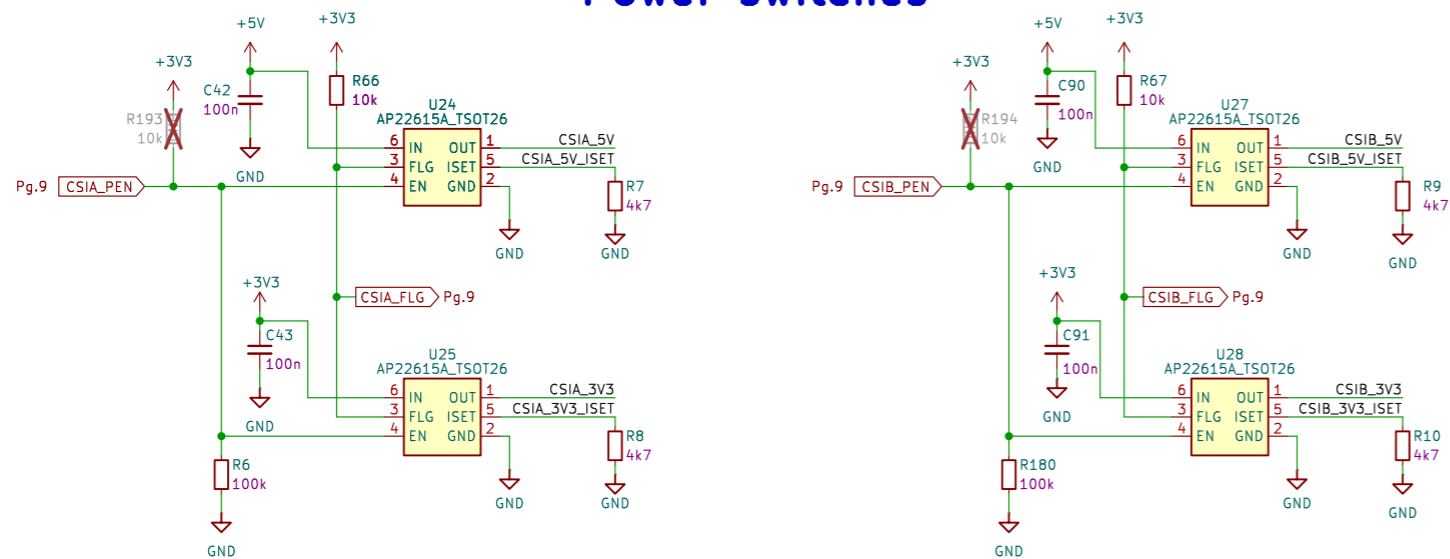
CSI connector J7



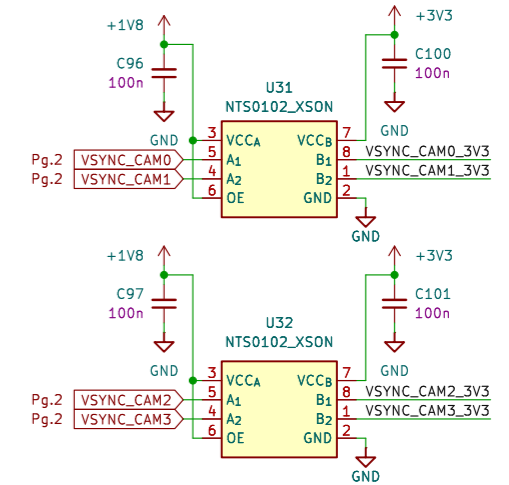
CSI connector J8



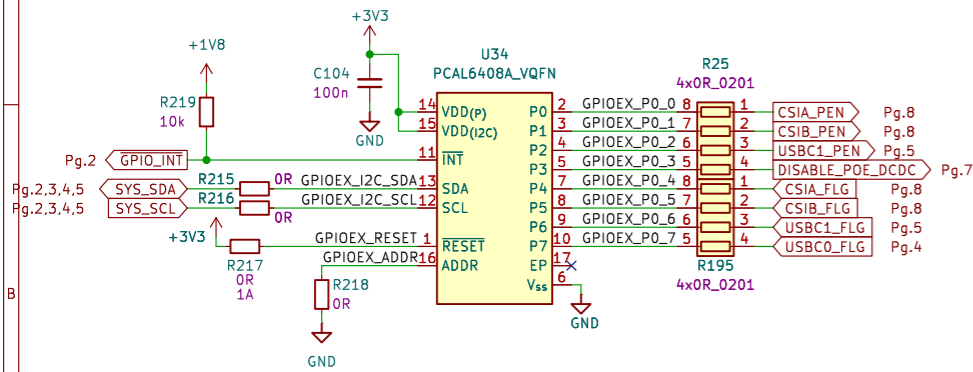
Power switches



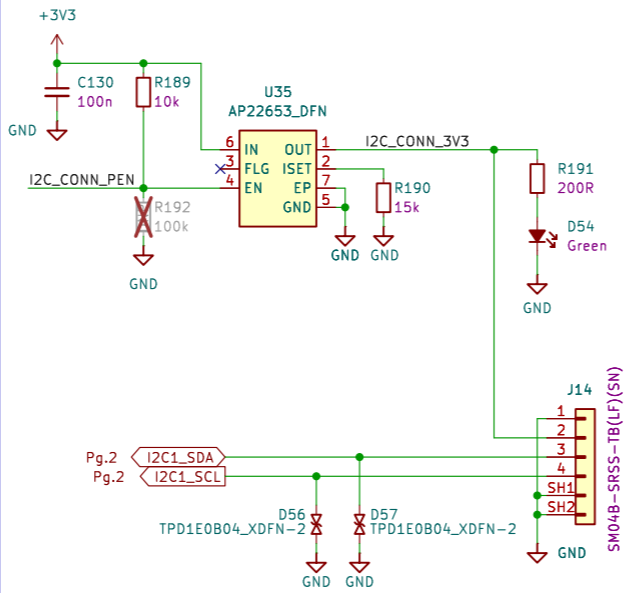
Level shifters



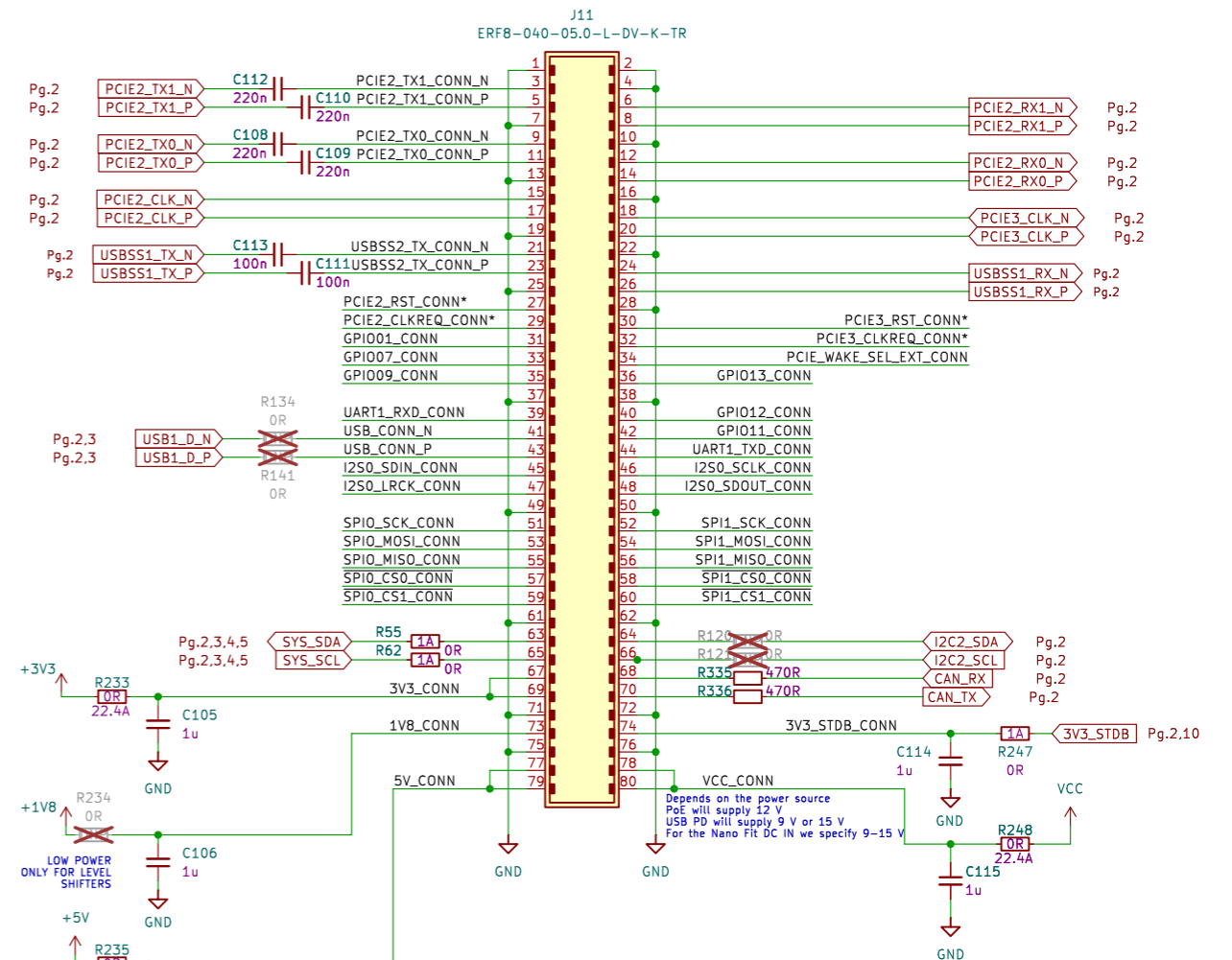
GPIO expander



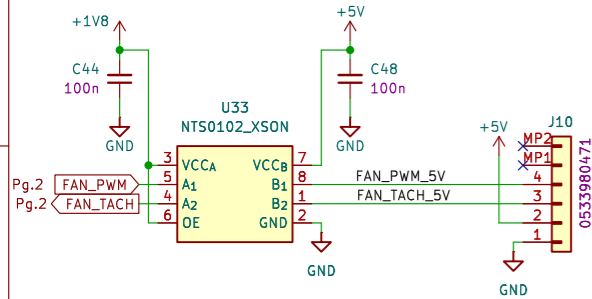
I2C connector



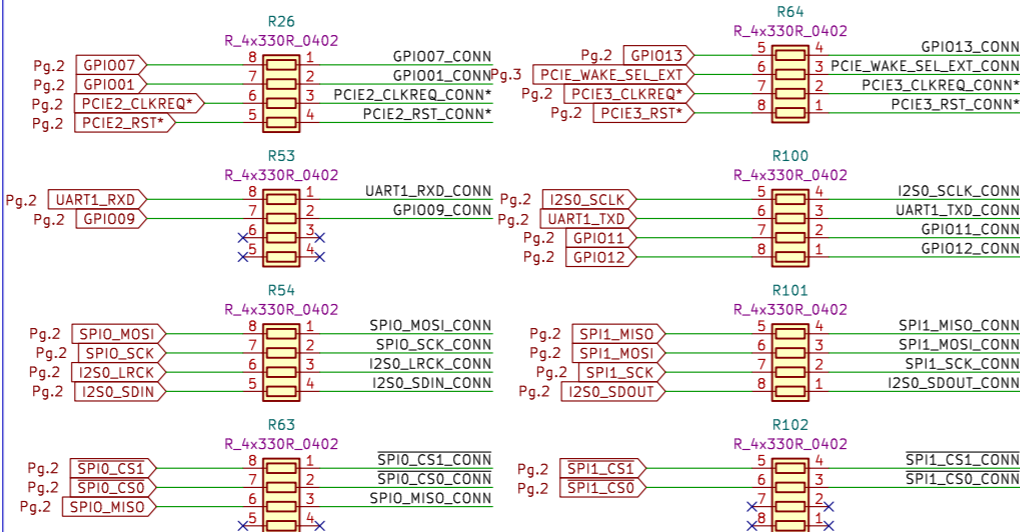
Expansion connector



Fan connector

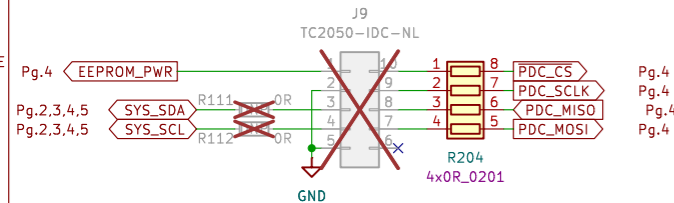


Expansion connector resistors

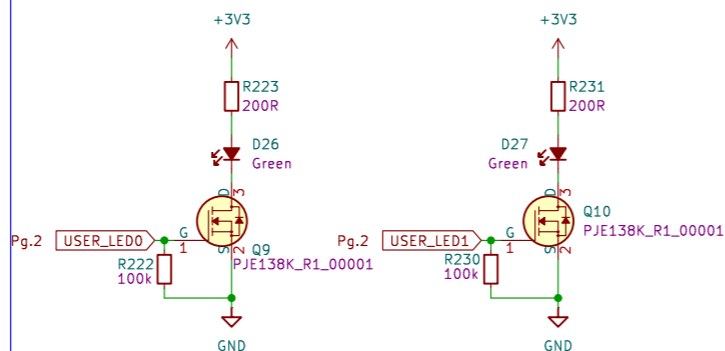


Debug connector

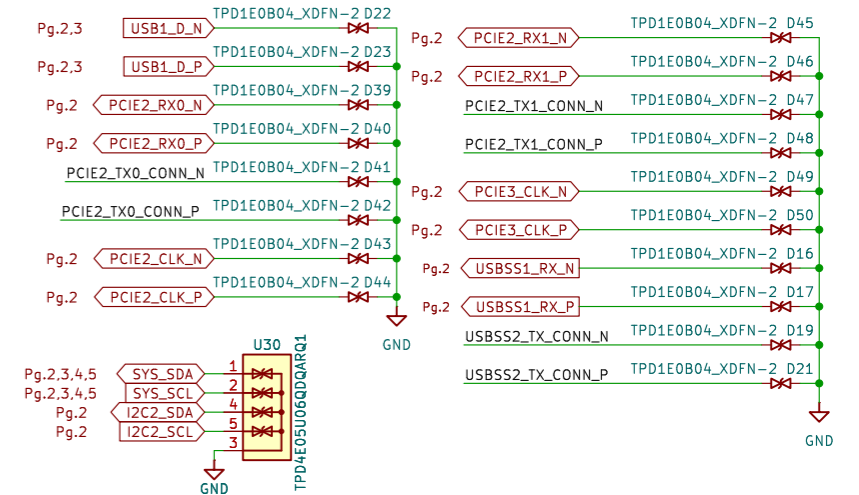
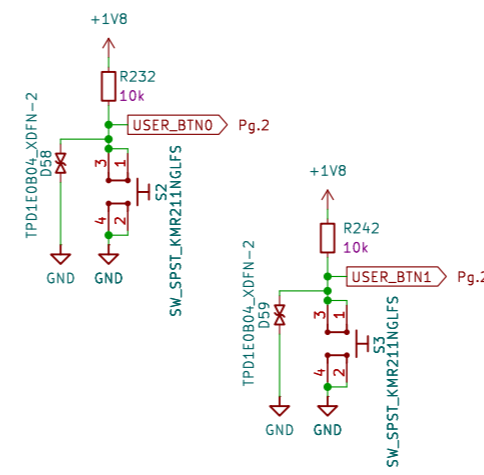
pinout compatible with www.github.com/antmicro/ftdi-toolkit



LED indicators



Buttons



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Sheet: /Peripherals/

File: peripherals.kicad_sch

Title: Jetson Orin Baseboard

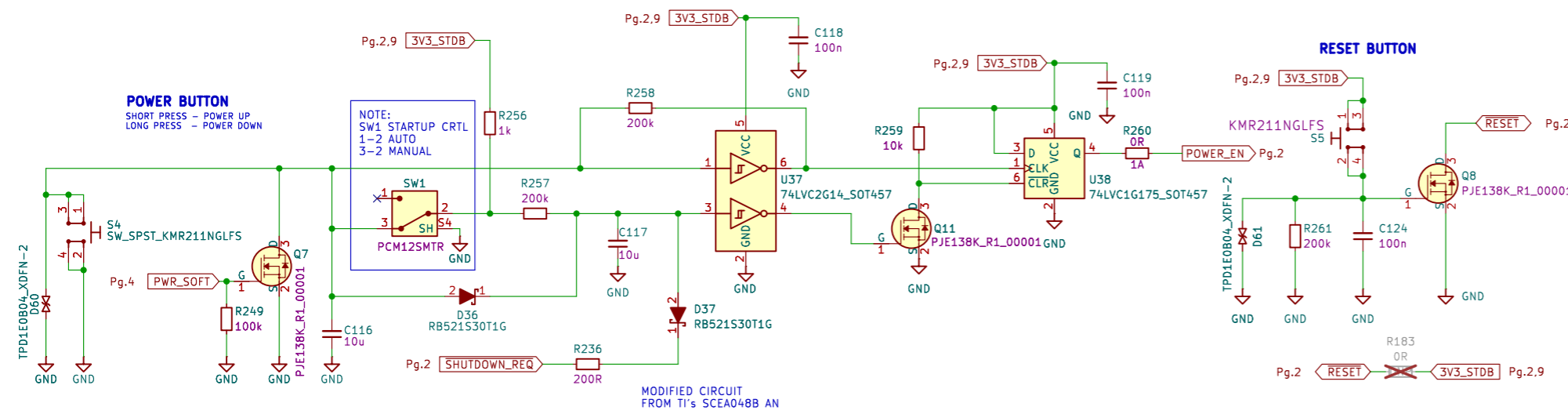
Size: A3 Date: 2024-06-06

Rev: 1.1.6

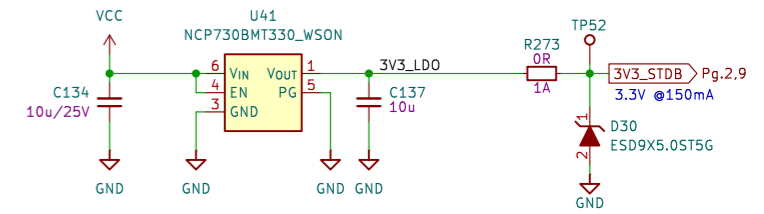
KiCad E.D.A. kicad 7.0.10+1

Id: 9/10

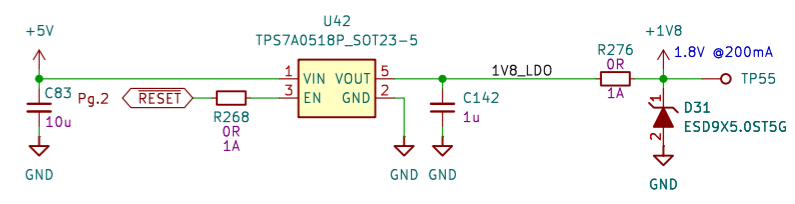
POWER-UP AND RESET CIRCUITRY



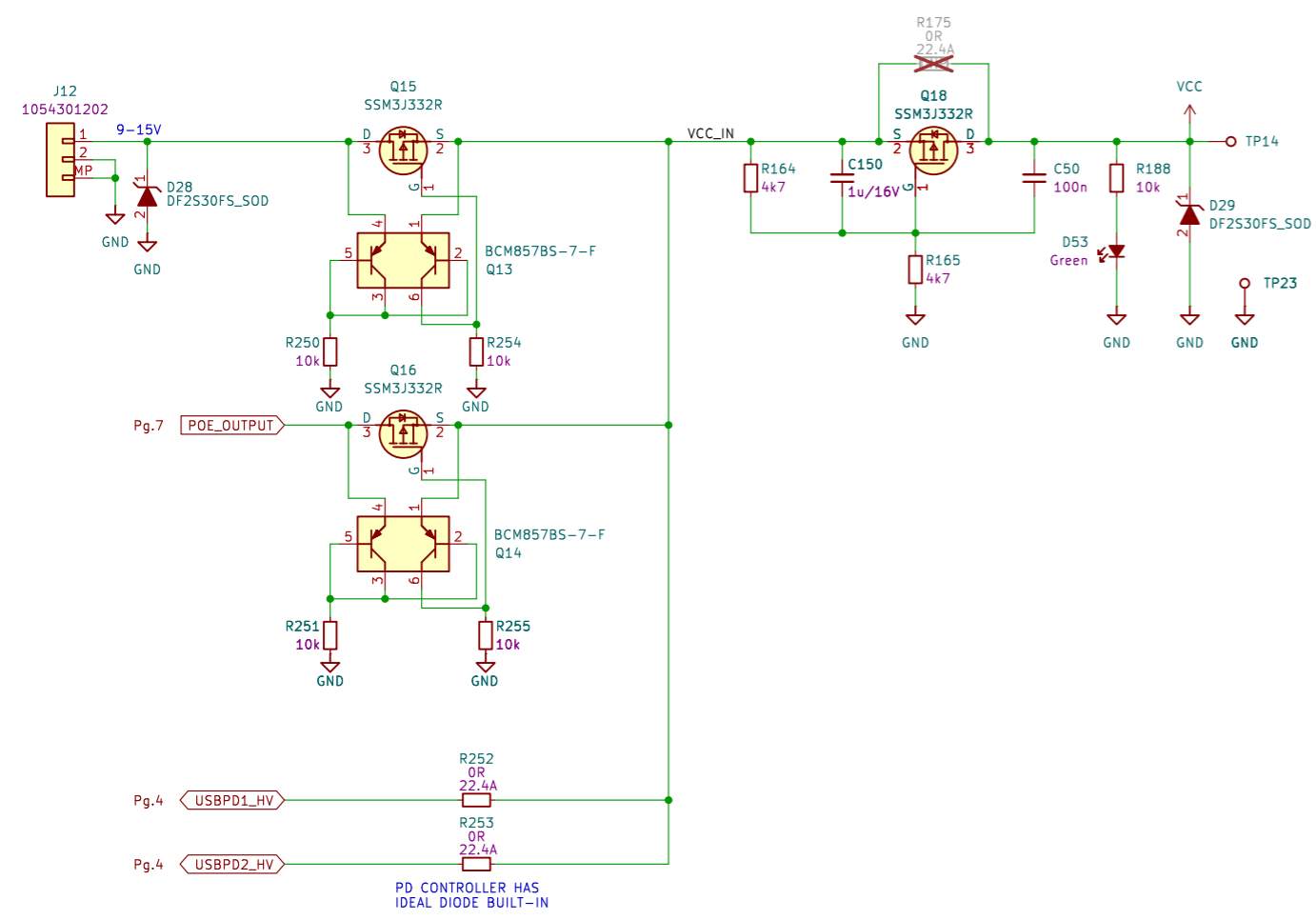
3V3 STANDBY LDO



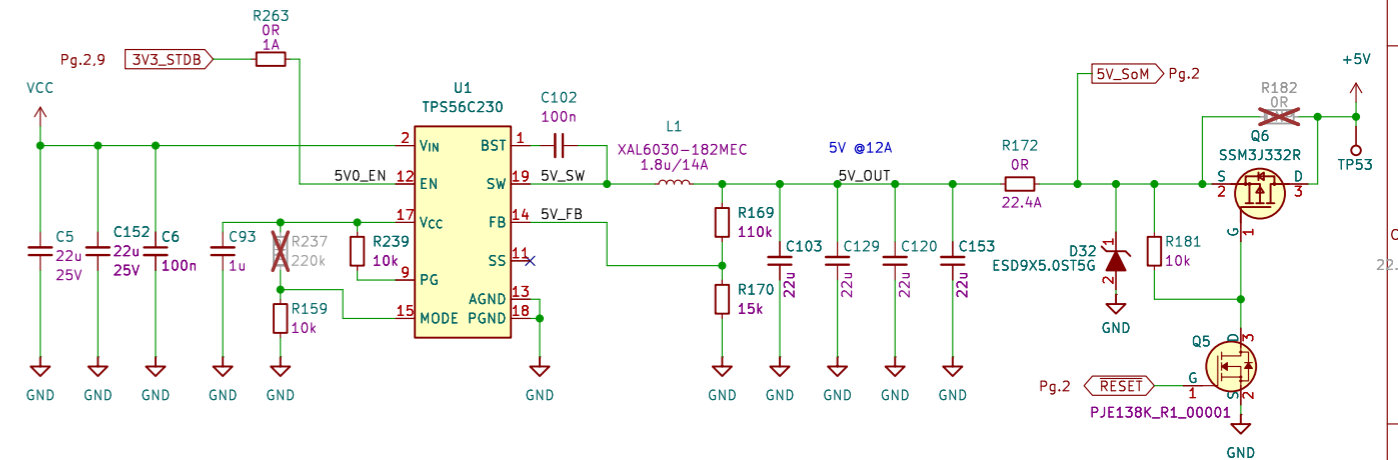
1V8 LDO



INPUT SELECTOR AND SOFT START



5V DCDC



3V3 DCDC

