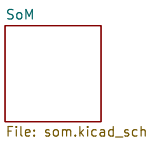
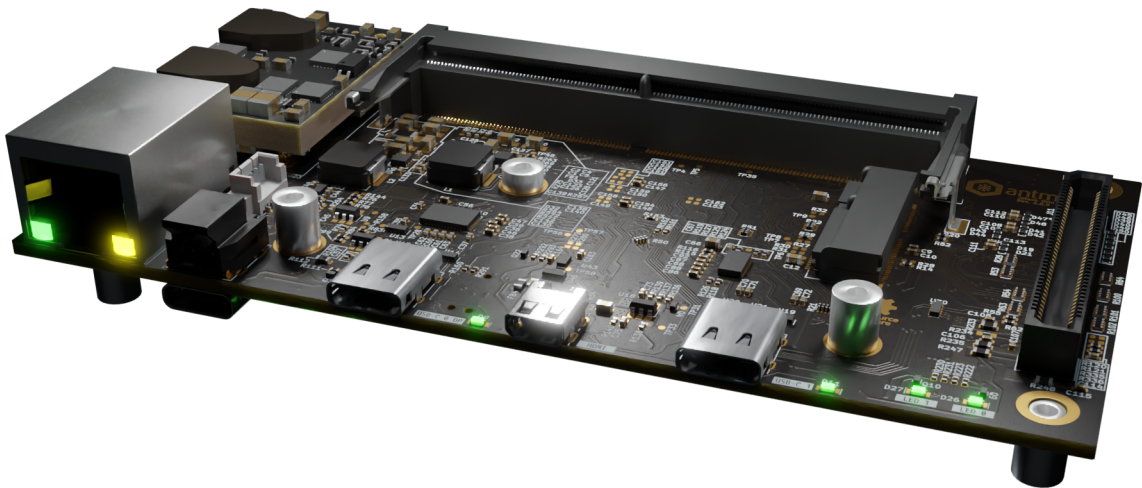
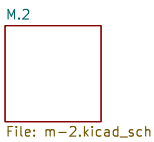


Jetson Orin Baseboard

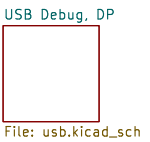
github.com/antmicro/jetson-orin-baseboard



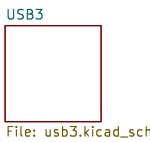
File: som.kicad_sch



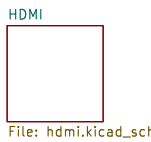
File: m-2.kicad_sch



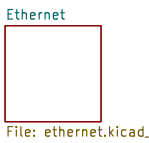
File: usb.kicad_sch



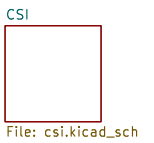
File: usb3.kicad_sch



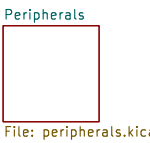
File: hdmi.kicad_sch



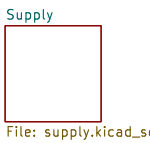
File: ethernet.kicad_sch



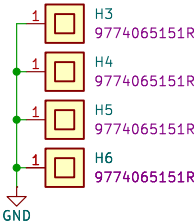
File: csi.kicad_sch



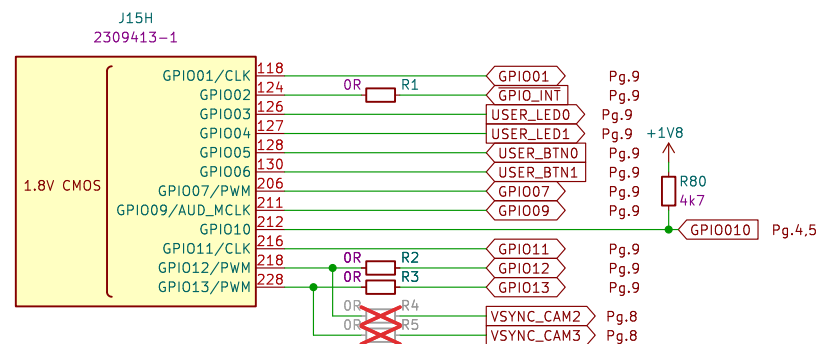
File: peripherals.kicad_sch



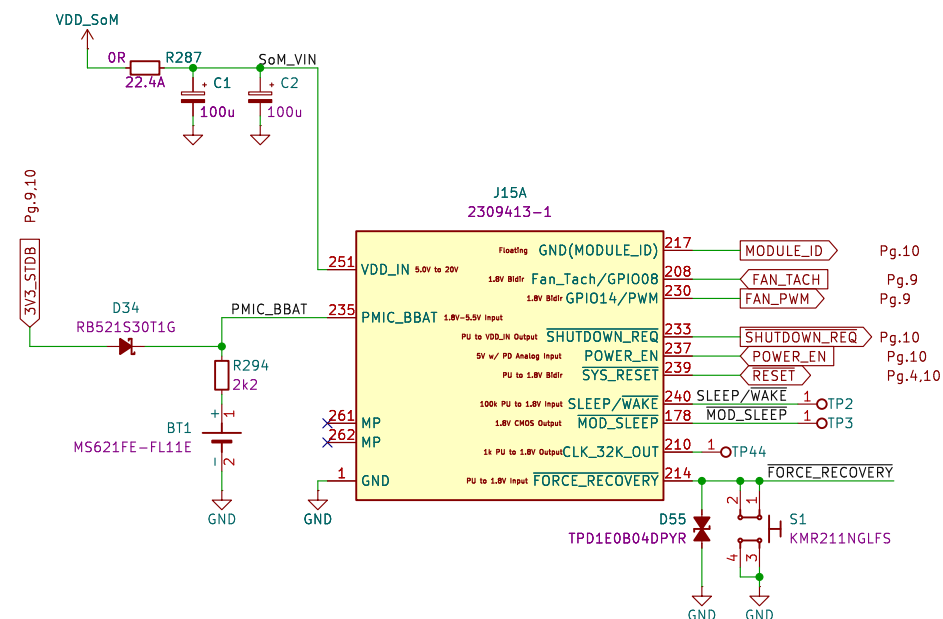
File: supply.kicad_sch



GPIO

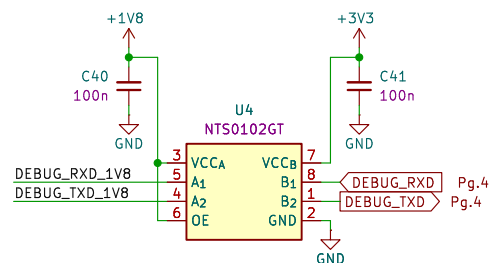


Power & CTRL

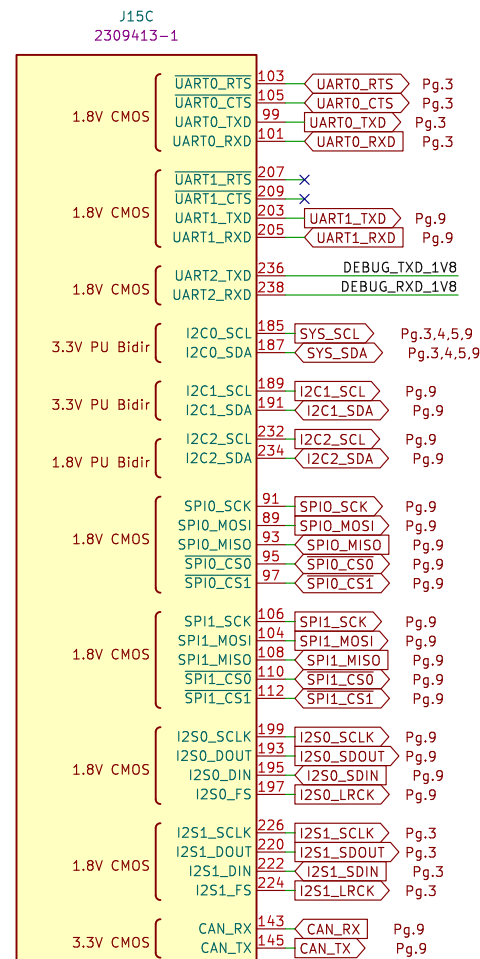


Miscellaneous

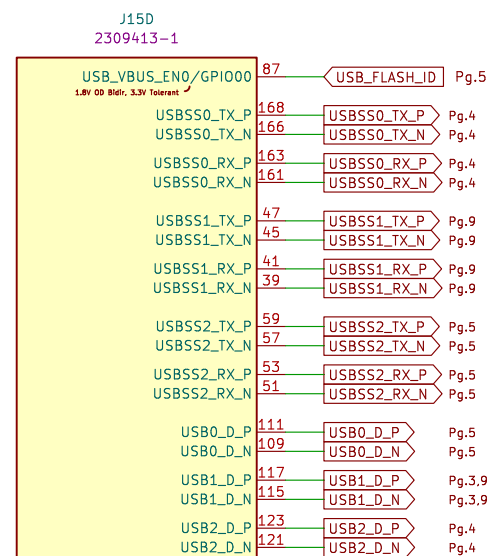
DEBUG UART LEVEL SHIFTER



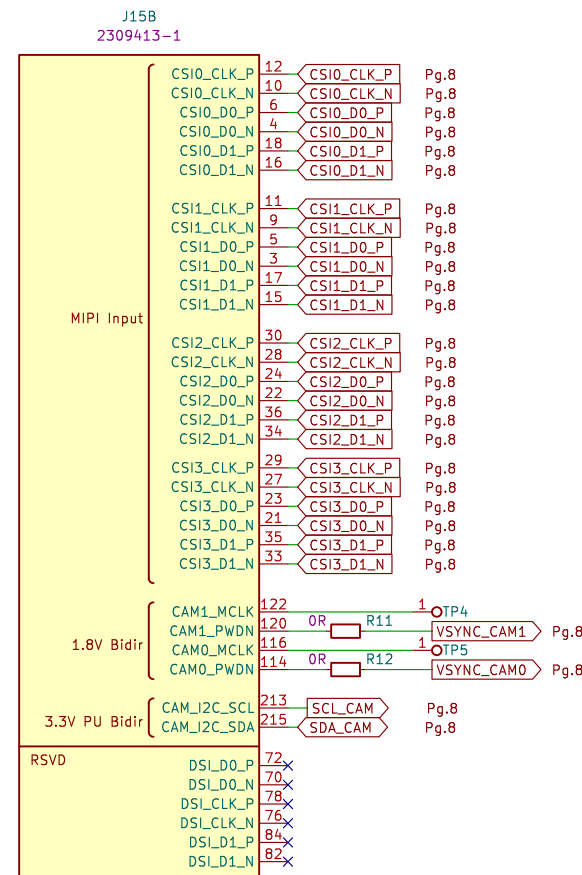
UART/I2C/SPI/I2S/CAN



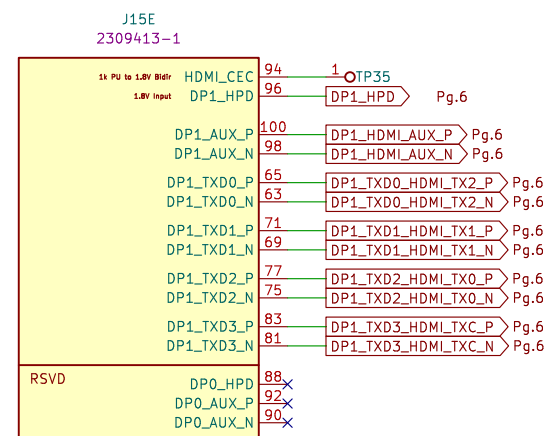
USB



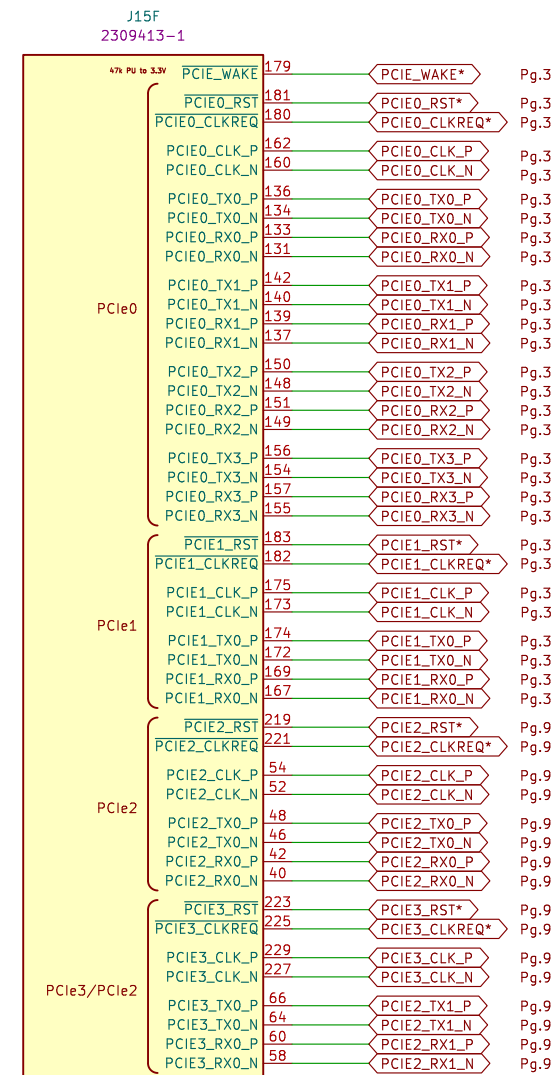
CSI



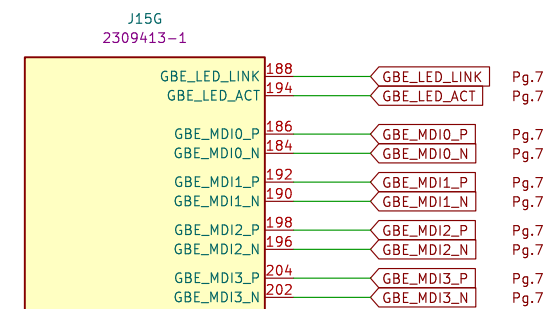
Video Output



PCIe



GbE



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Sheet: /SoM/
File: som.kicad_sch

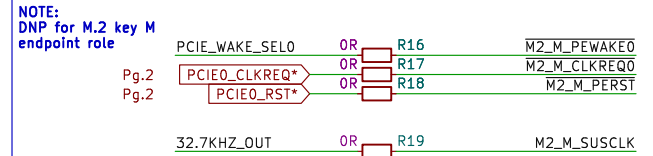
Title: Jetson Orin Baseboard

Size: A3

Date: 2025-03-12

Rev: 1.3.

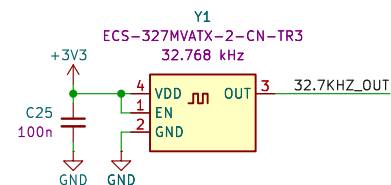
PCIe0 Root Port / Endpoint mode selector



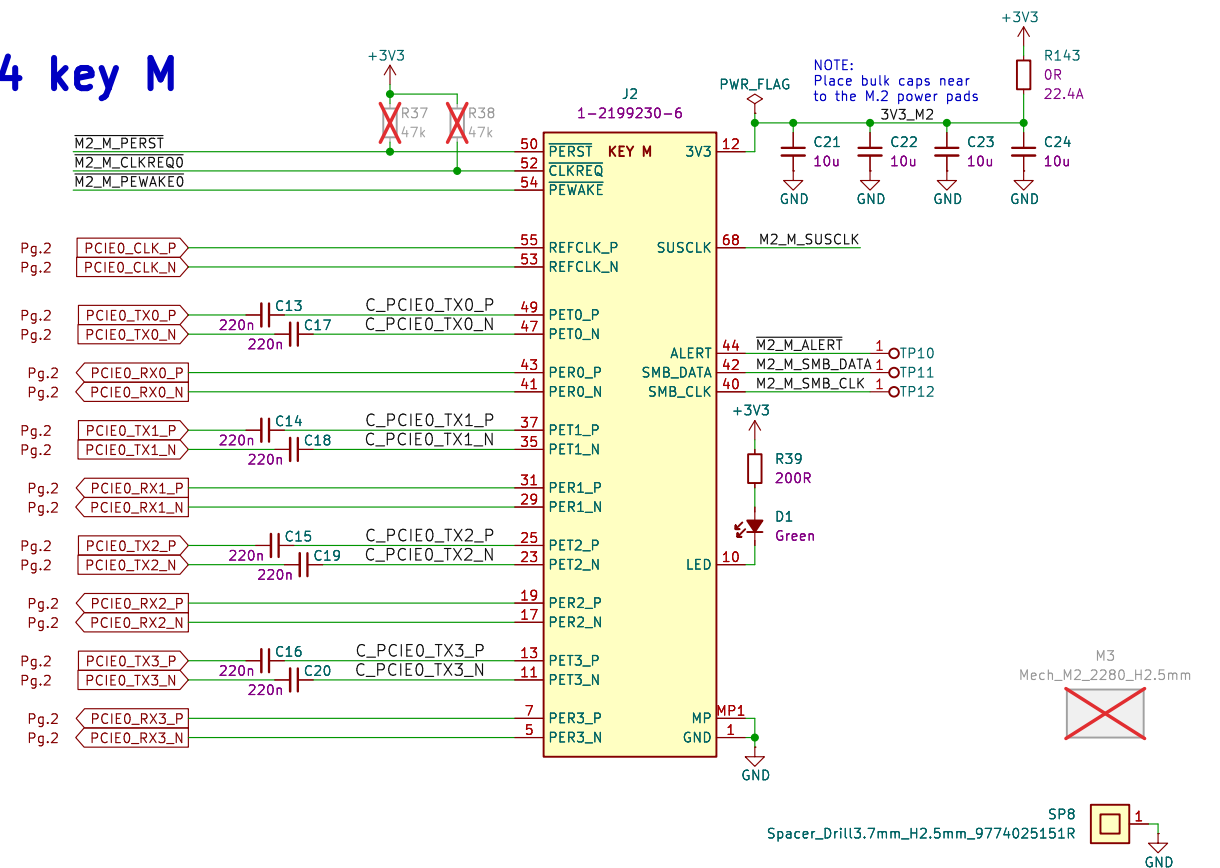
M.2 PCIe_WAKE selector



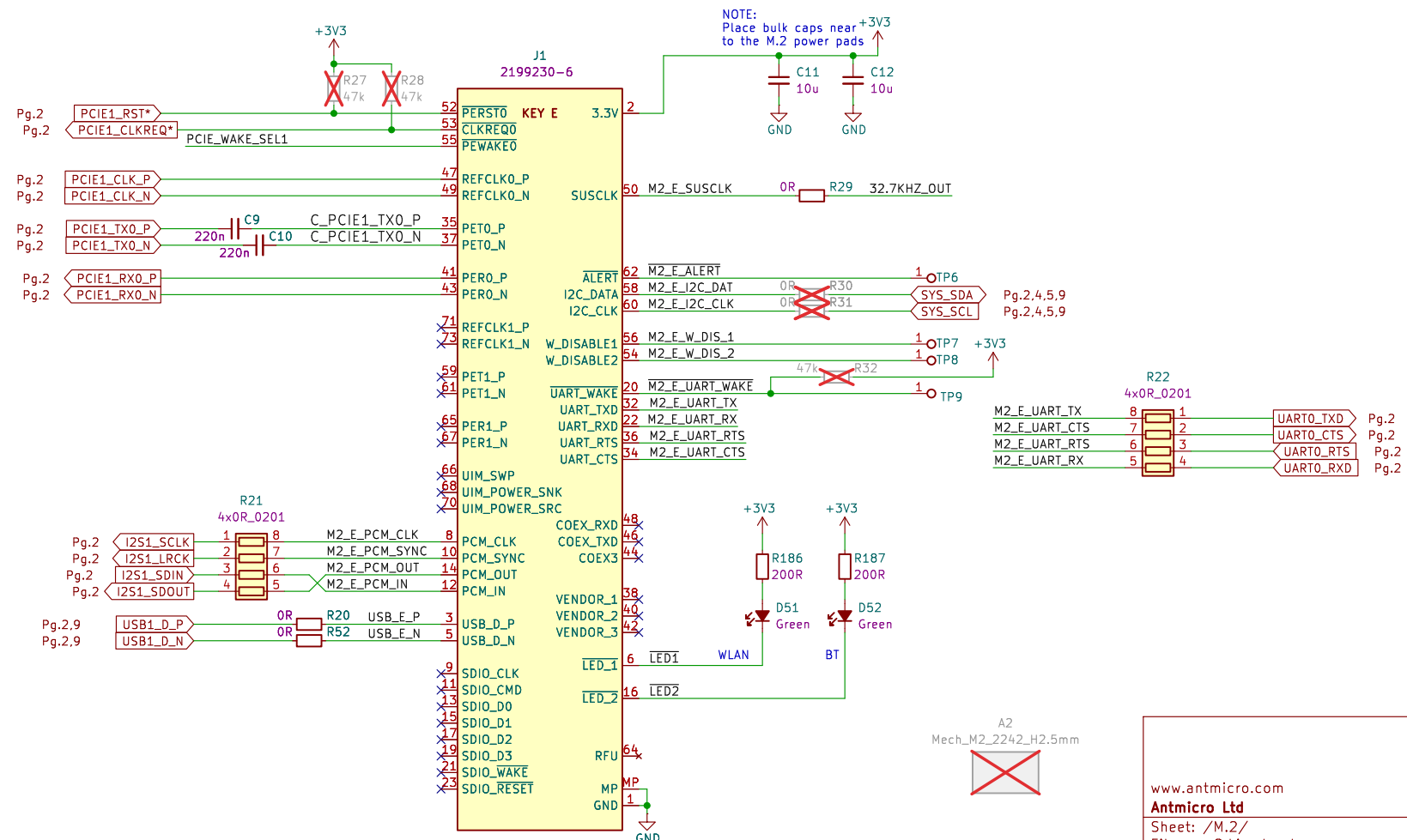
SUSCLK SOURCE



PCIe0 1x4 key M



PCIe1 1x1 key E



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Sheet: /M.2/

File: m-2.kicad_sch

Title: Jetson Orin Baseboard

Size: A3

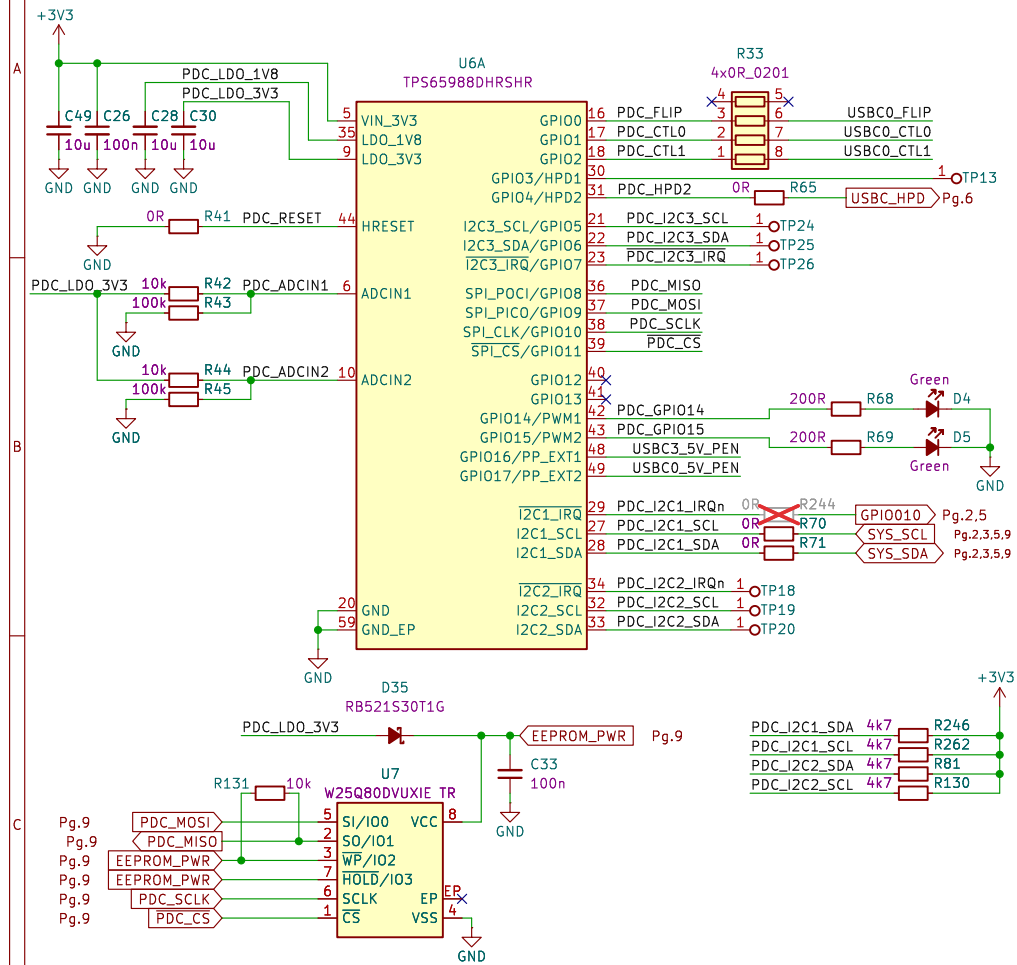
Date: 2025-03-12

Rev: 1.3.4:161d7ad6

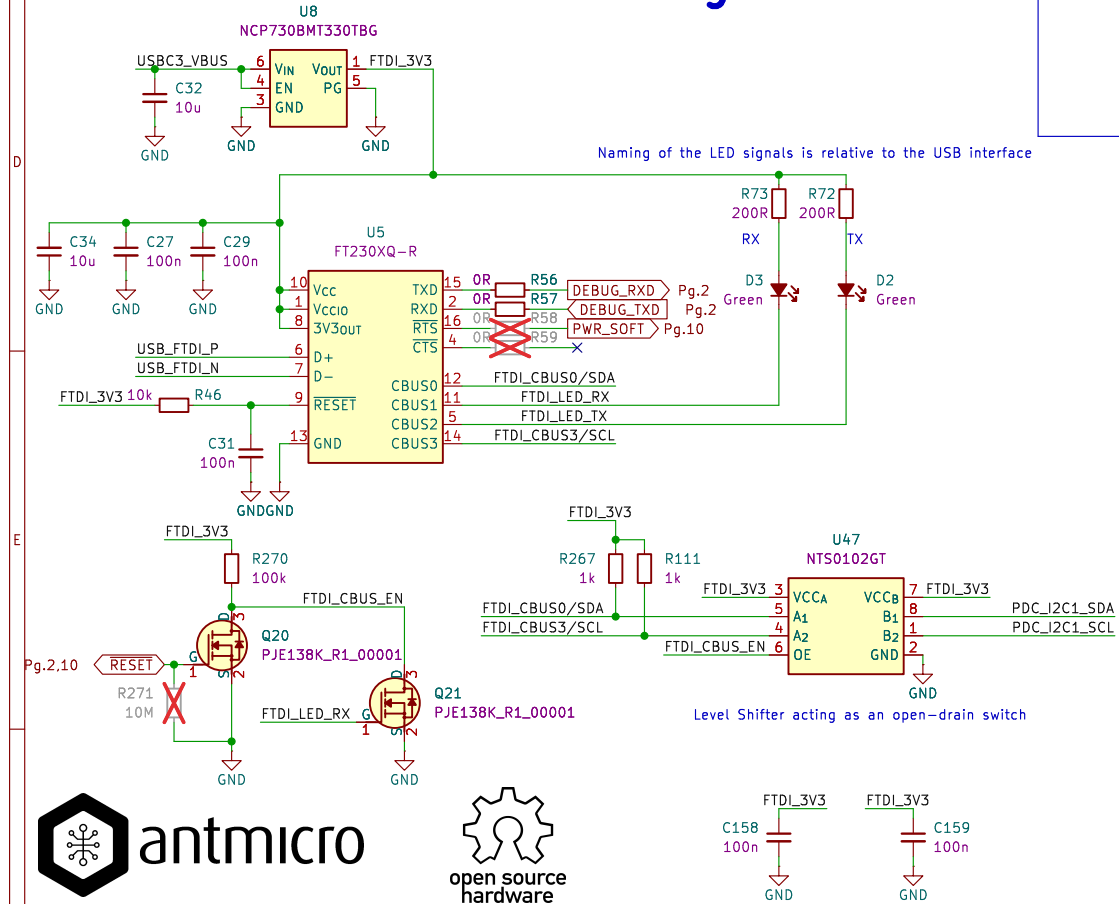
KiCad E.D.A. 9.0.6

Id: 3/10

USB PD Controller

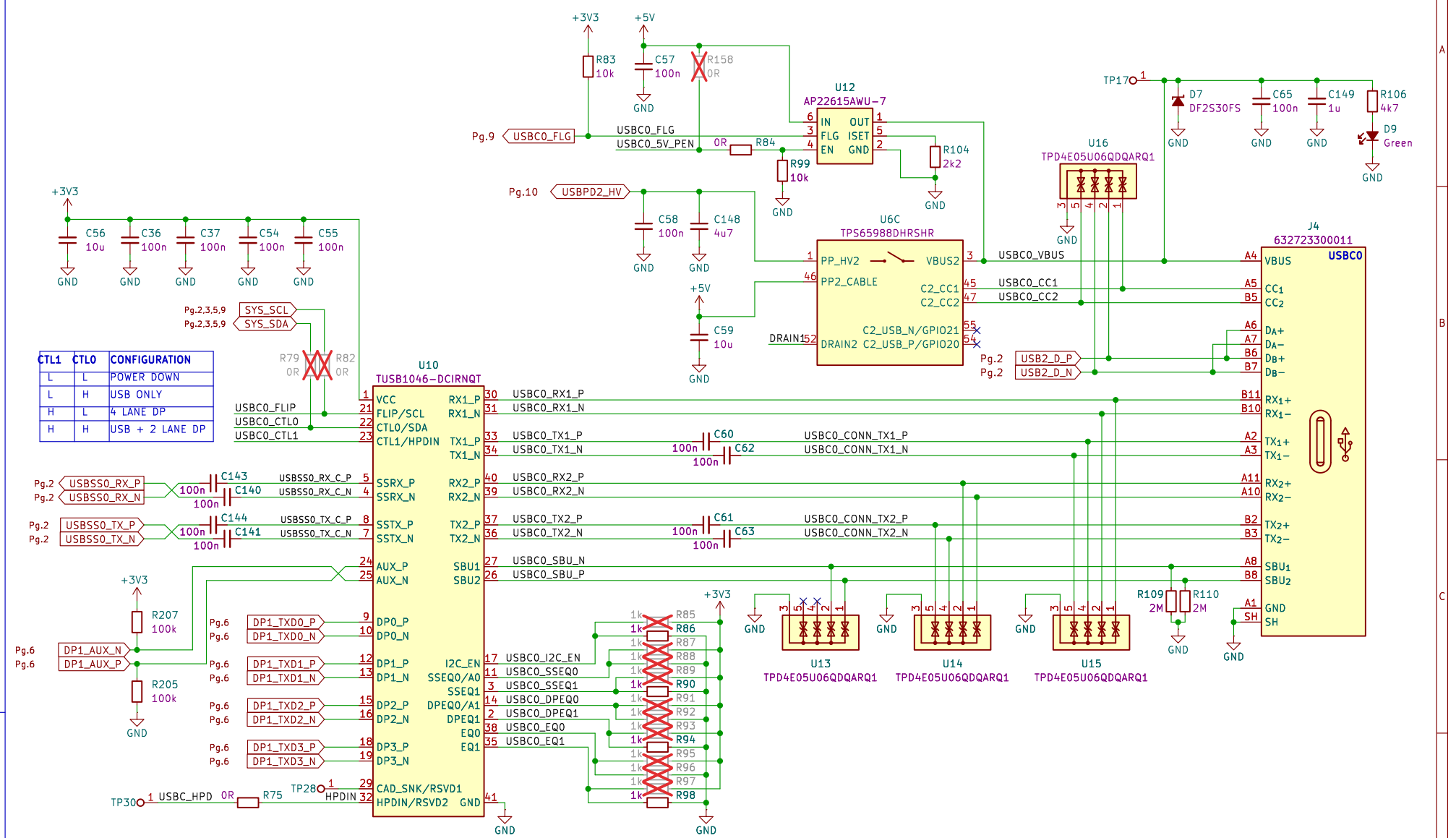


USB-UART Bridge



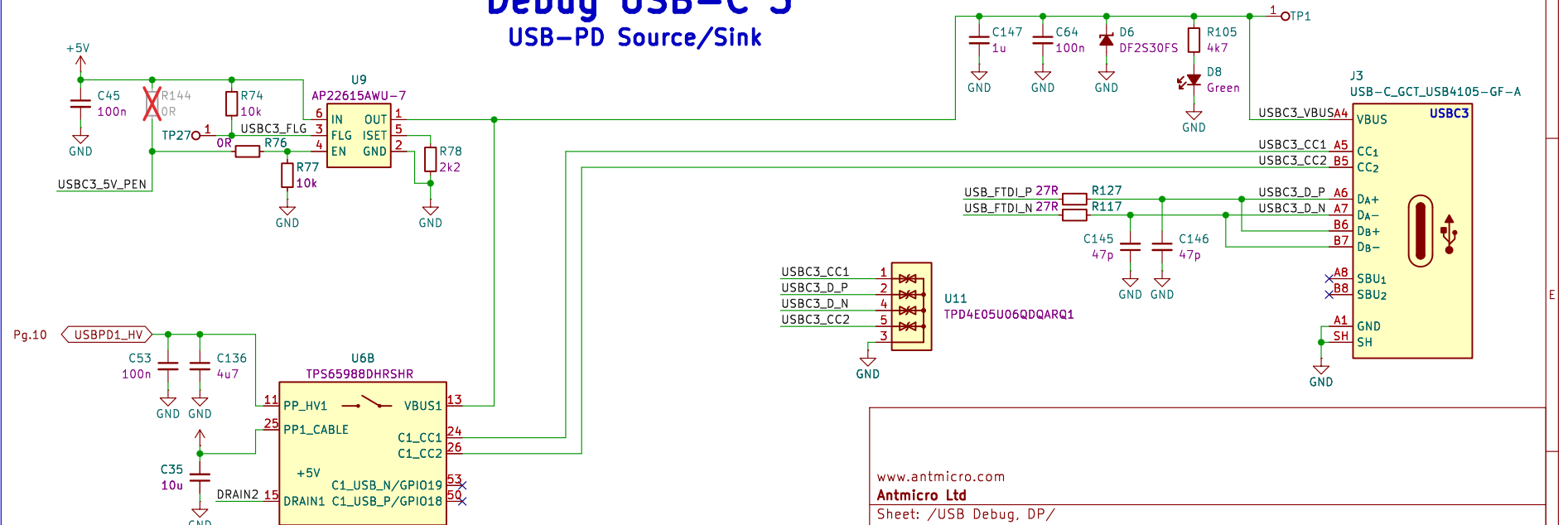
USB-C 0 Display Port alt mode

USB-PD Source/Sink



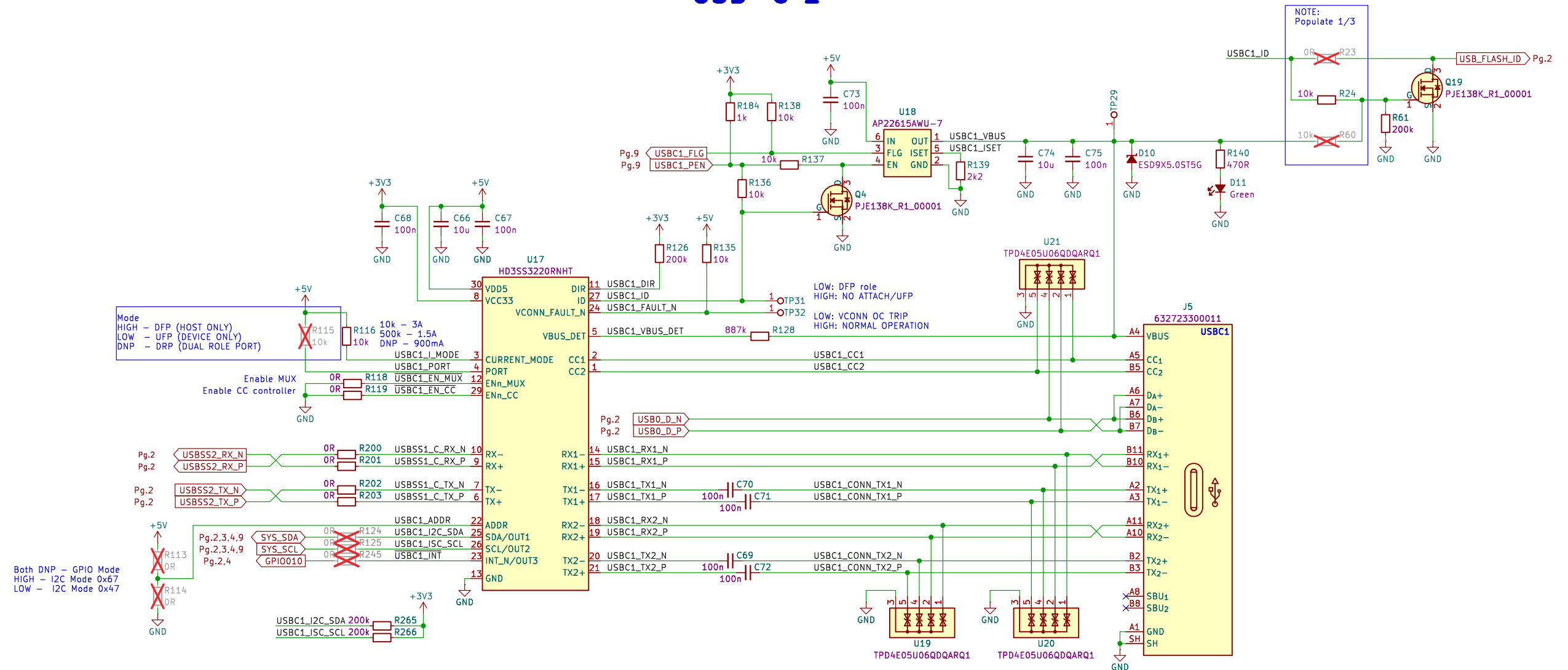
Debug USB-C 3

USB-PD Source/Sink

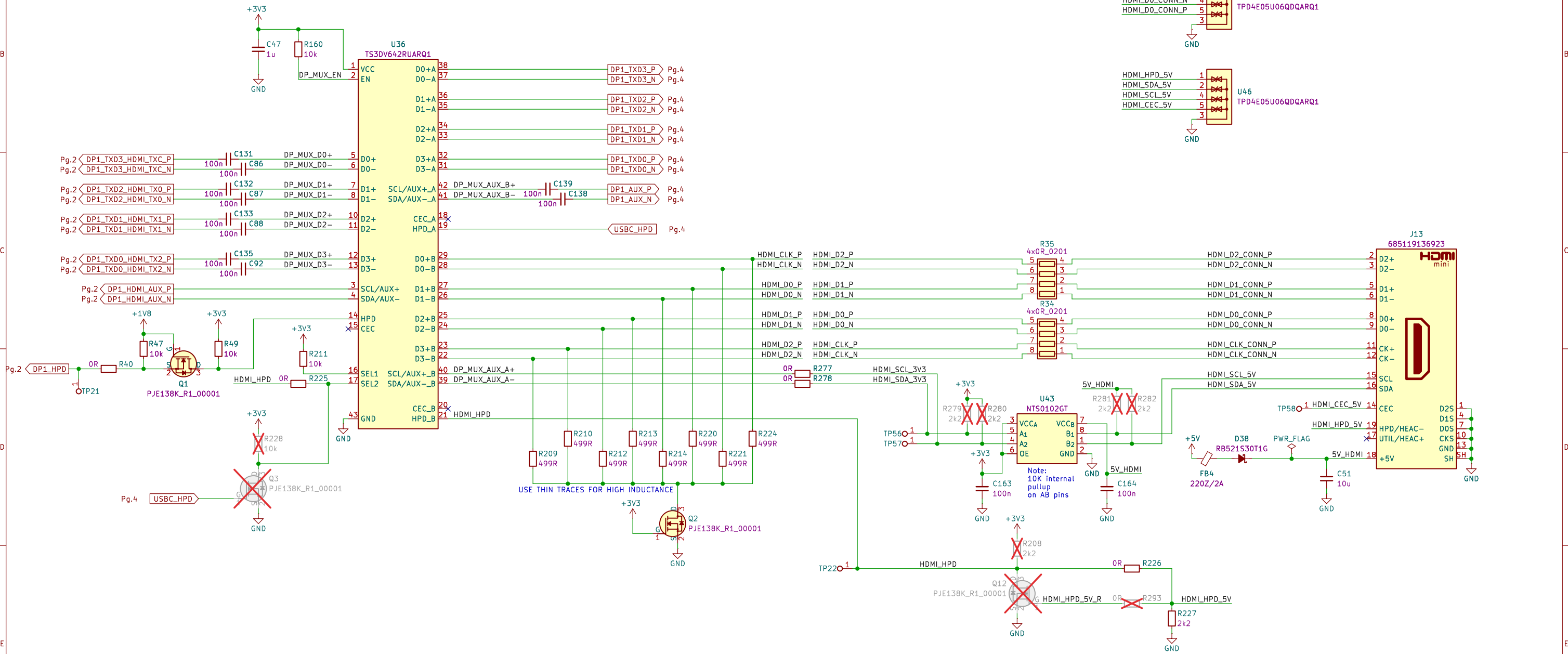


Rev: 1.3.4:161d7ad6
Id: 4/10

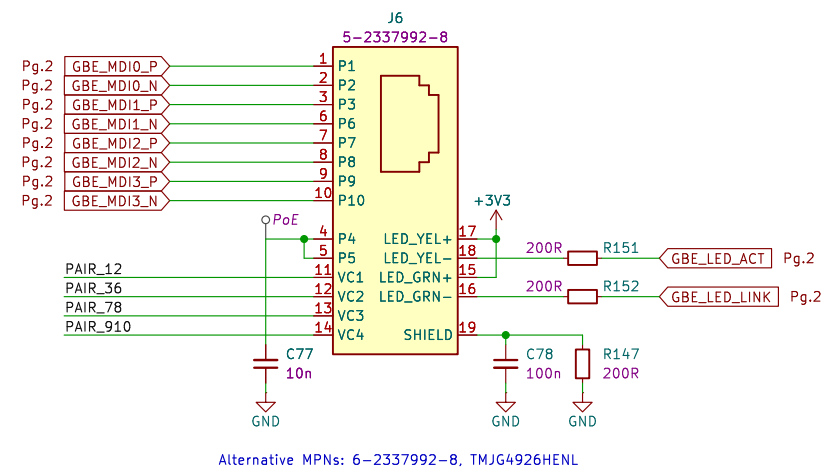
USB-C 1



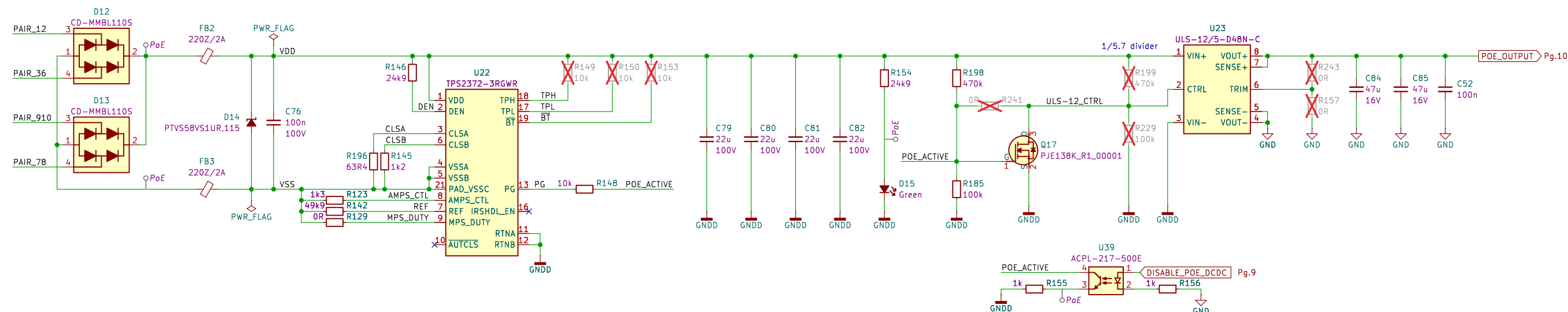
HDMI Connector



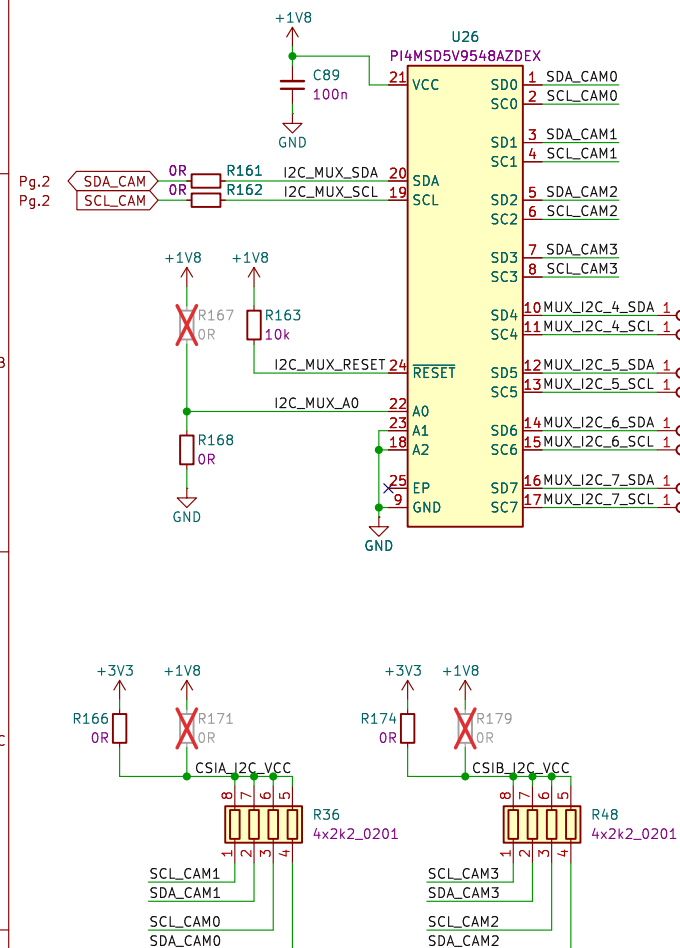
Ethernet Connector



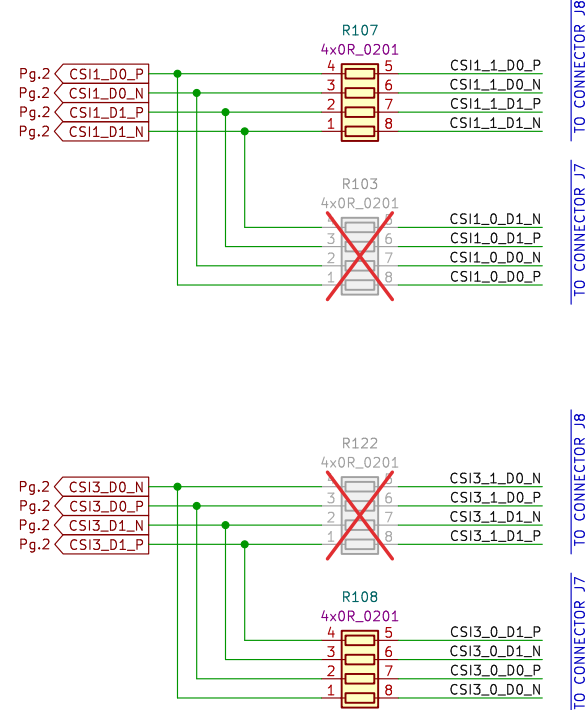
Power over Ethernet



I2C Mux



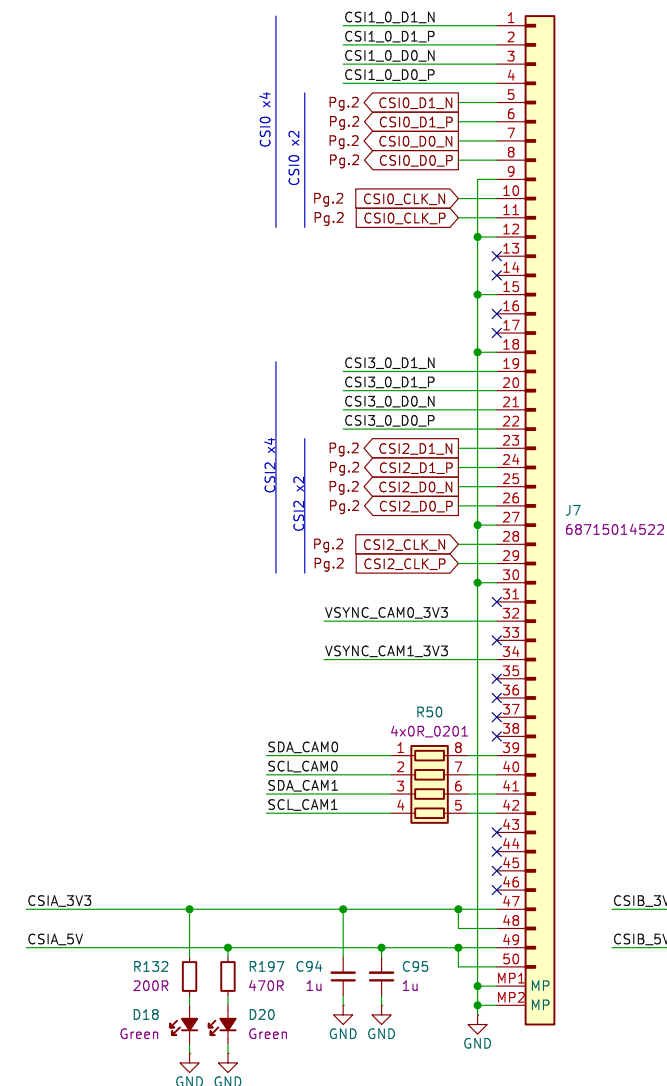
CSI Mux



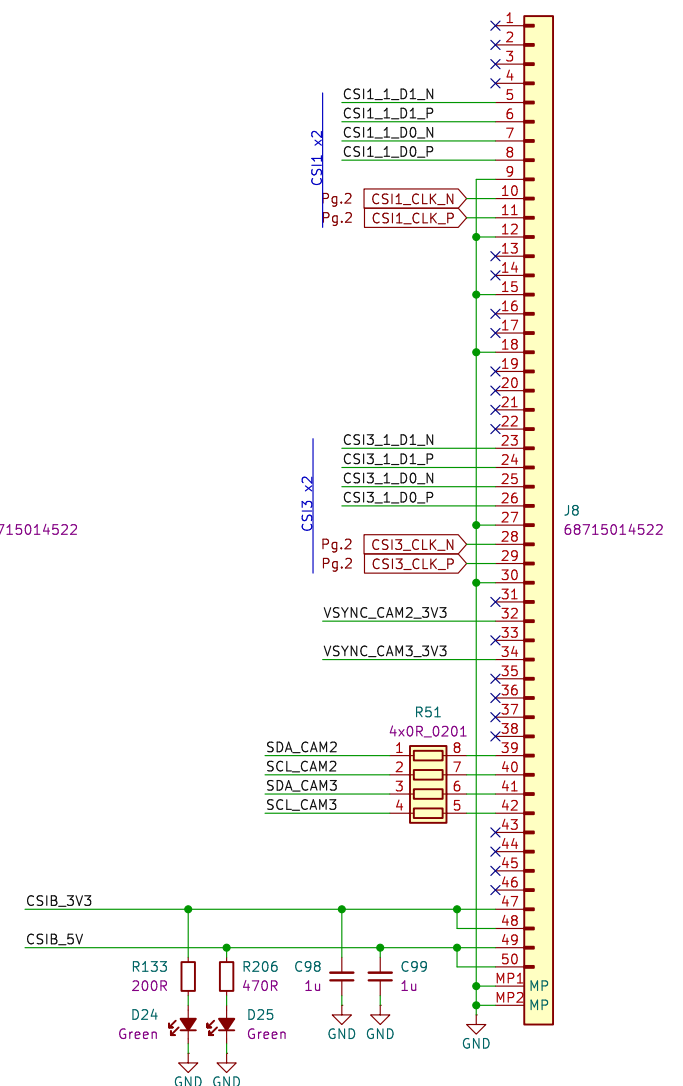
AVAILABLE CSI CONFIGURATIONS:

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

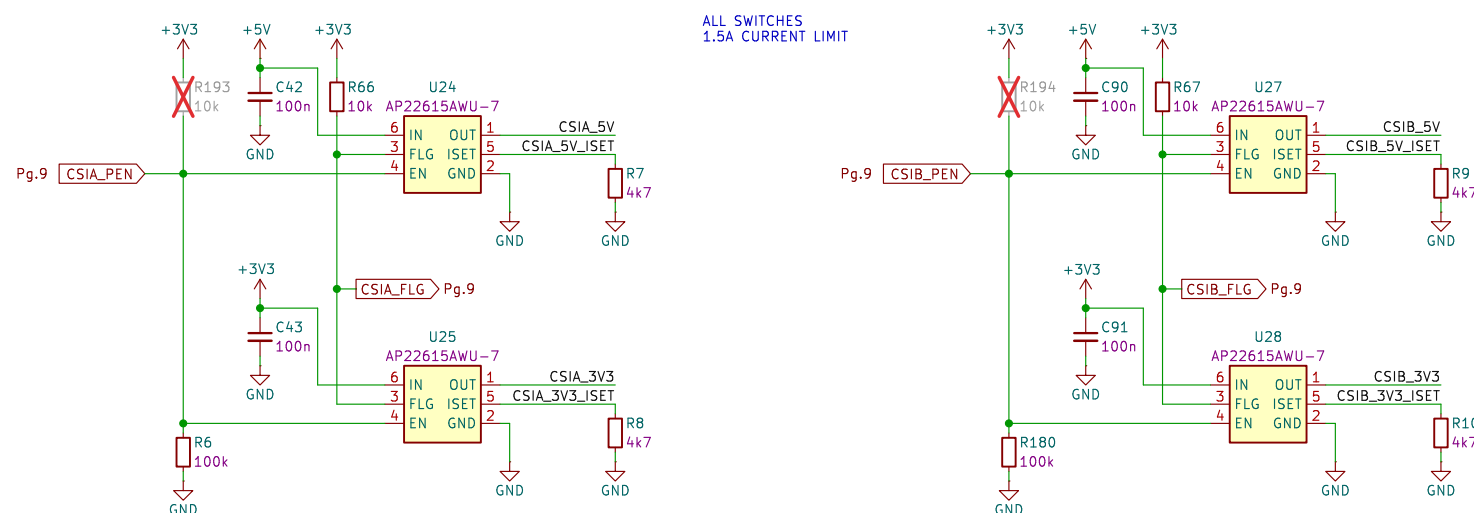
CSI connector J7



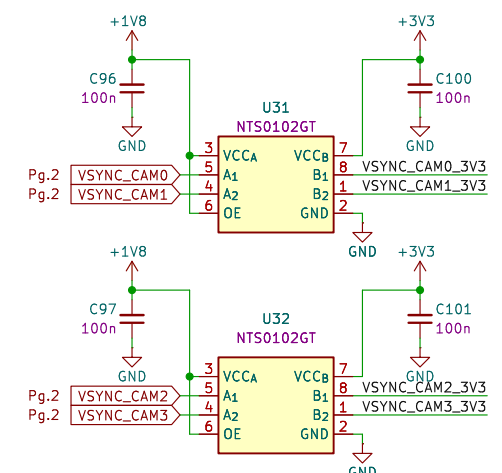
CSI connector J8



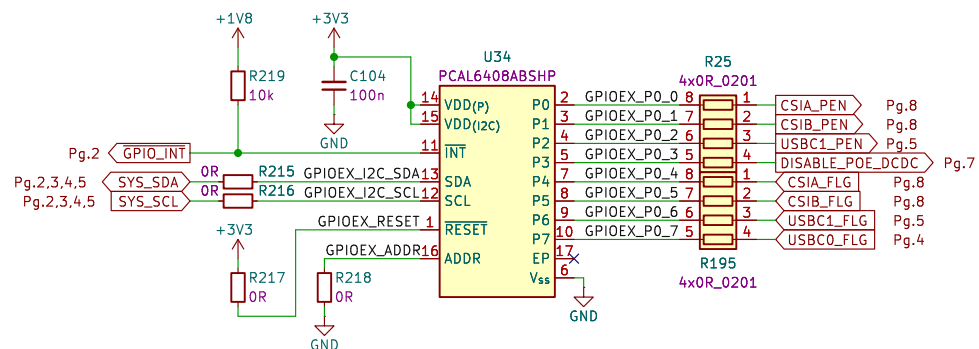
Power switches



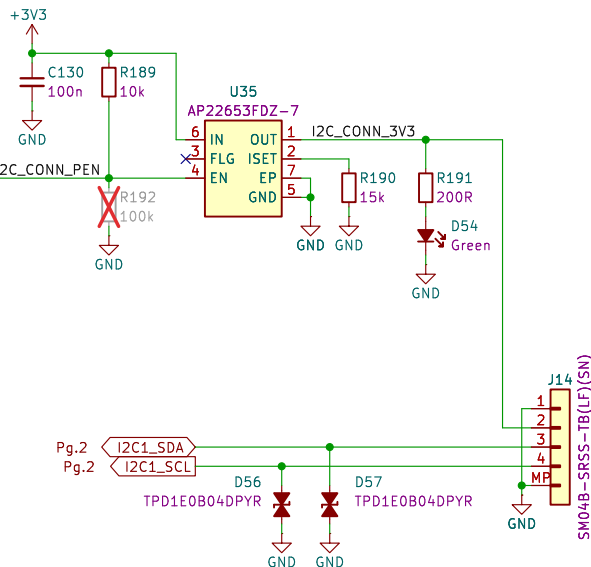
Level shifters



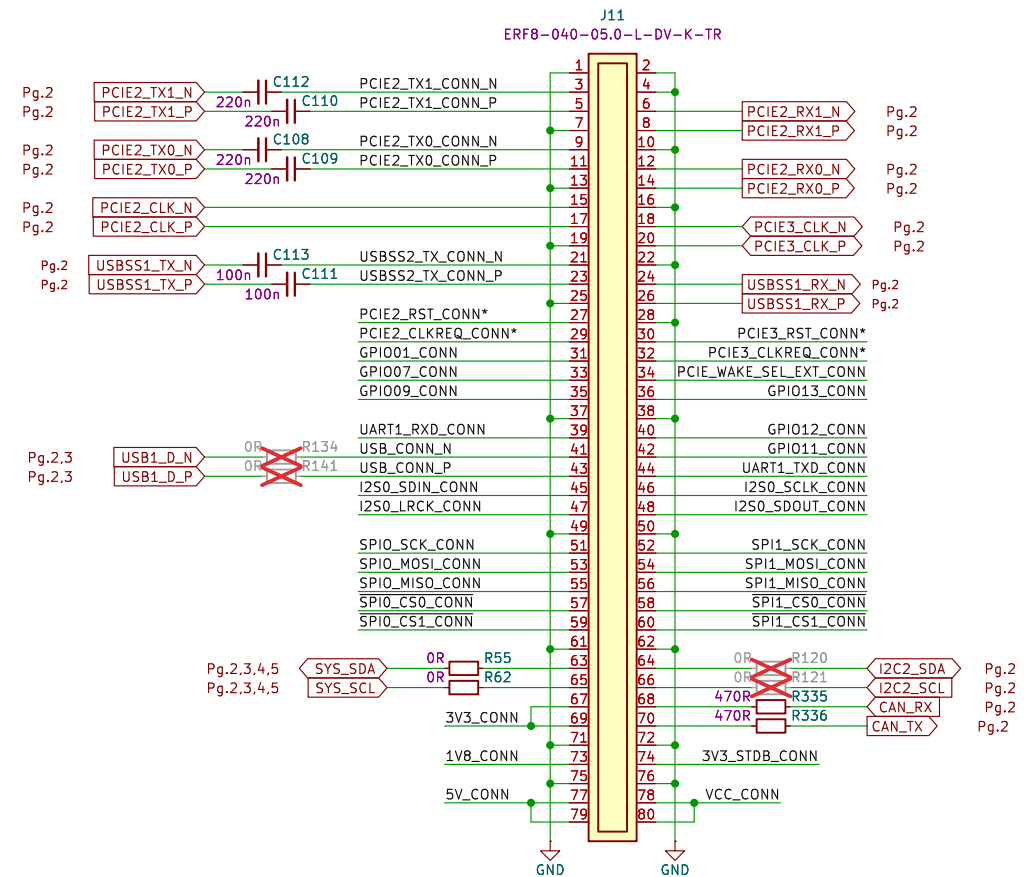
GPIO expander



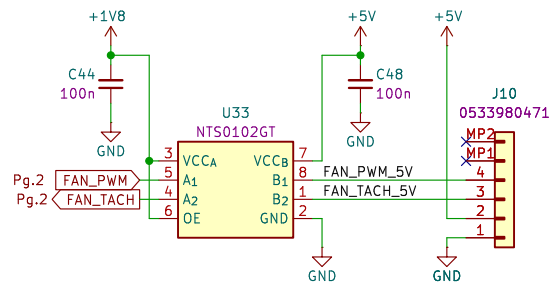
I2C connector



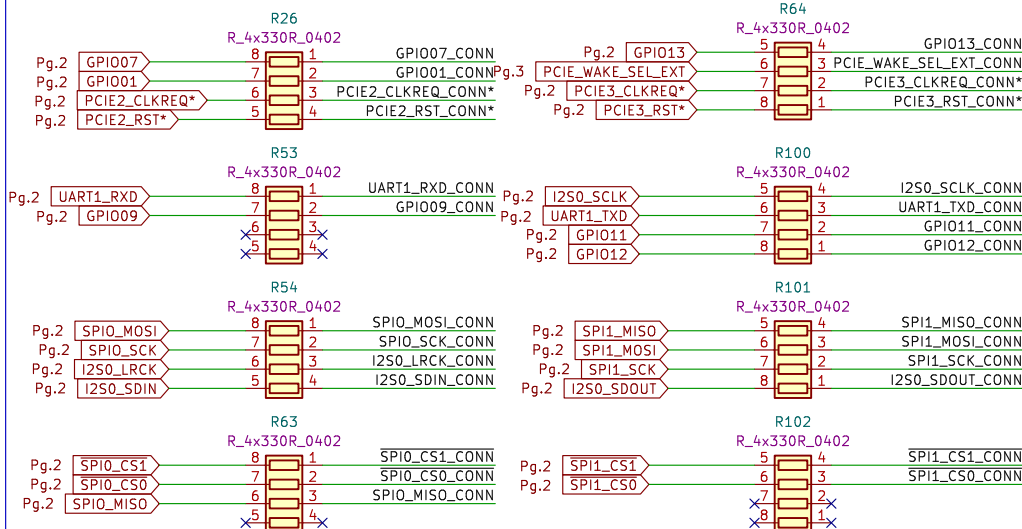
Expansion connector



Fan connector

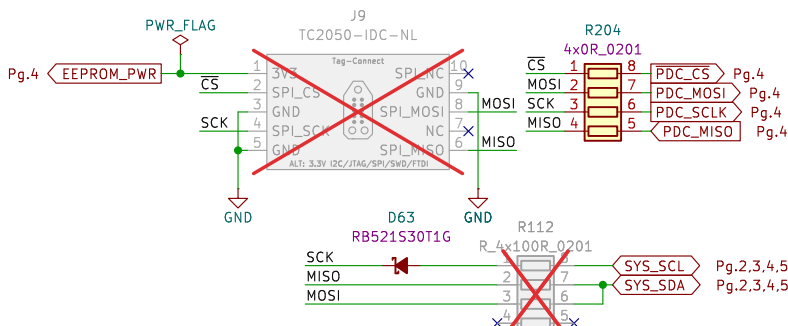


Expansion connector resistors

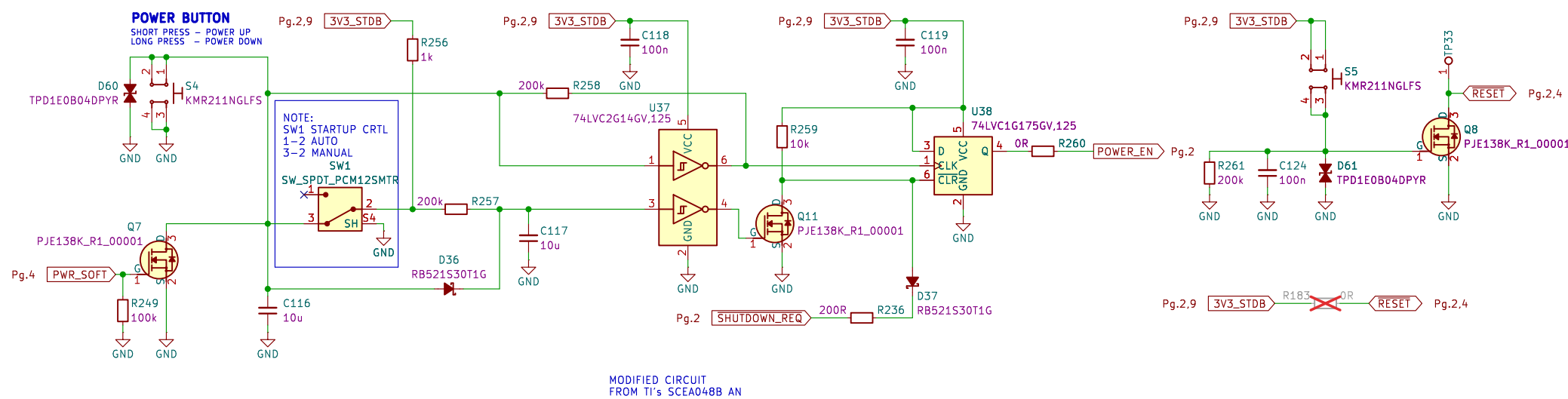


Debug connector

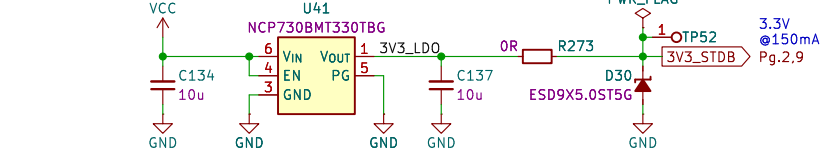
pinout compatible with
[www.github.com/antmicro/ftdi-toolkit](https://github.com/antmicro/ftdi-toolkit)



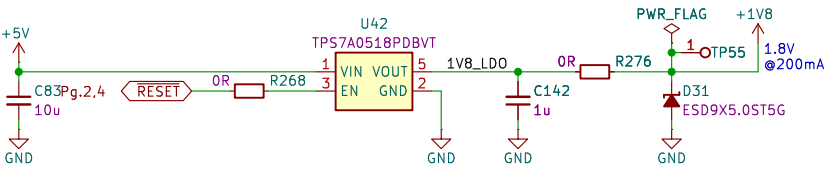
POWER-UP AND RESET CIRCUITRY



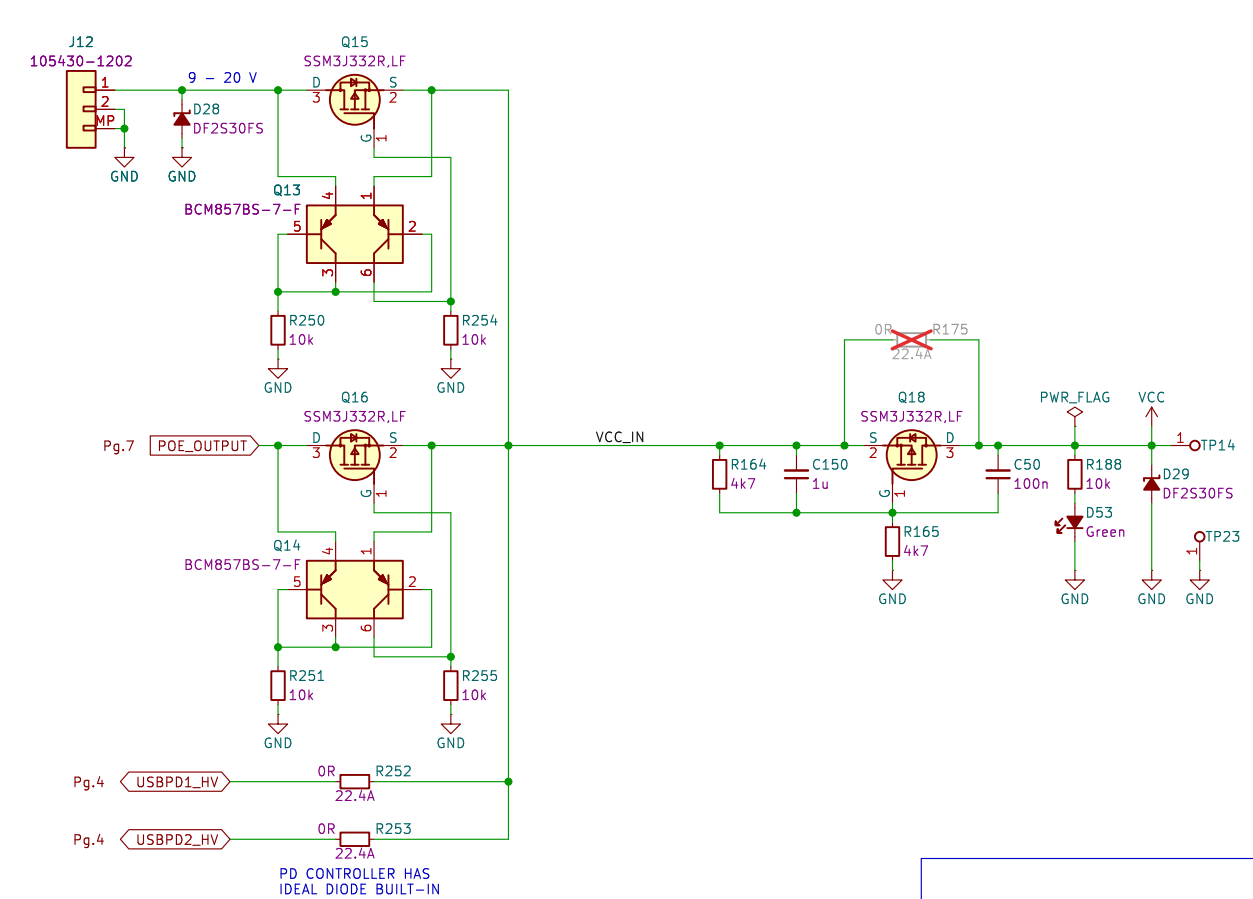
3V3 STANDBY LDO



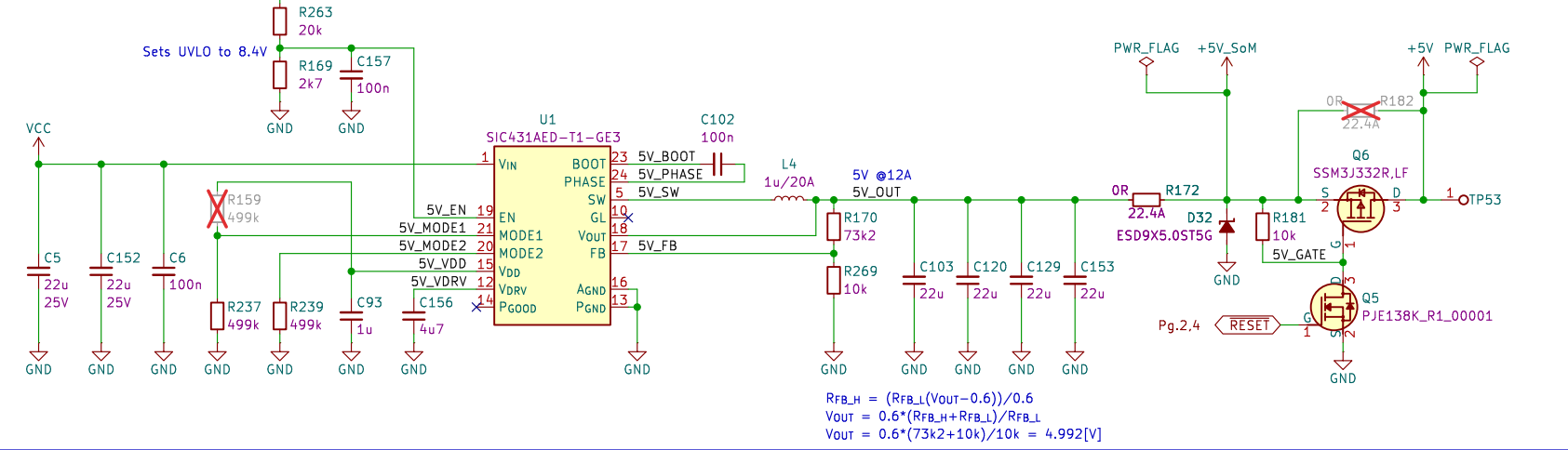
1V8 LDO



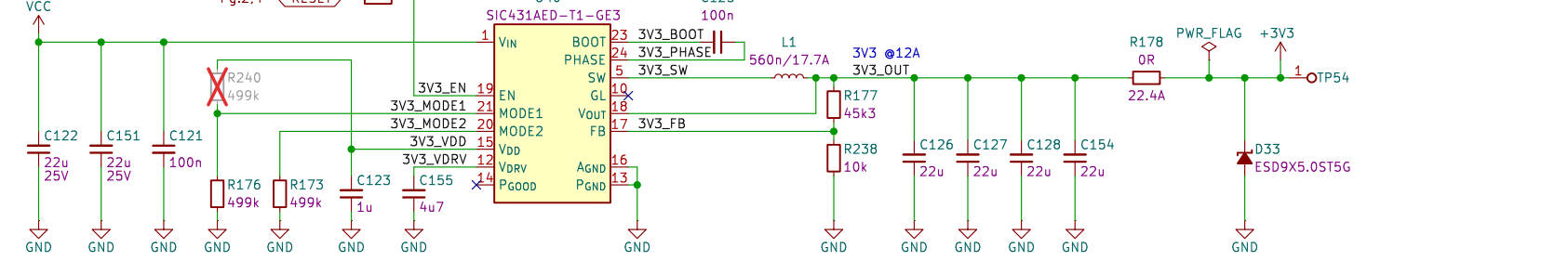
INPUT SELECTOR AND SOFT START



5V DCDC



3V3 DCDC



SoM supply selector

