

1 2 3 4 5 6 7 8

Jetson Orin Baseboard

github.com/antmicro/jetson-orin-baseboard

A

A

B

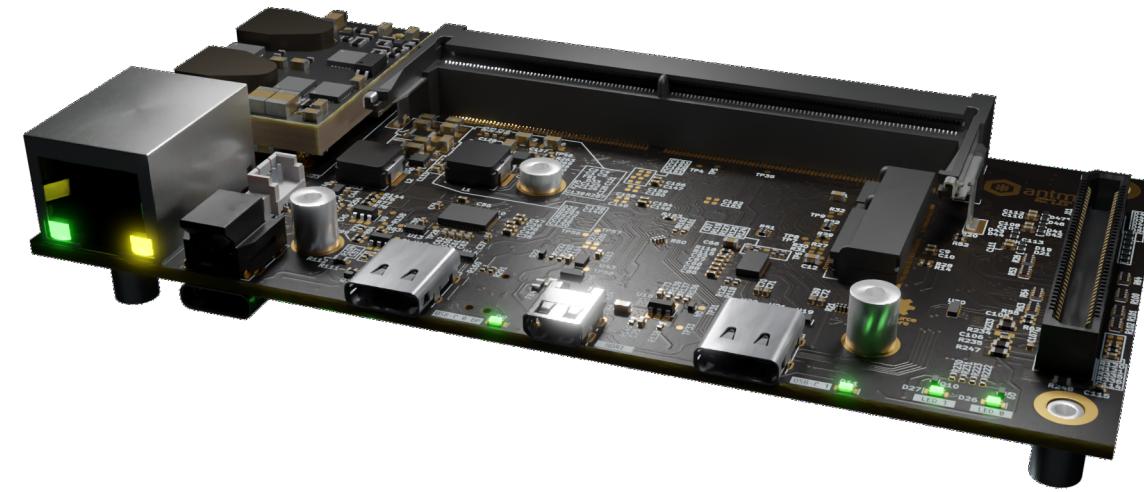
B

C

C

D

D



File: som.kicad_sch



File: m-2.kicad_sch



File: usb.kicad_sch



File: usb3.kicad_sch



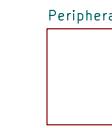
File: hdmi.kicad_sch



File: ethernet.kicad_sch



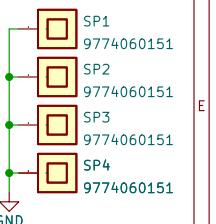
File: csi.kicad_sch



File: peripherals.kicad_sch



File: supply.kicad_sch



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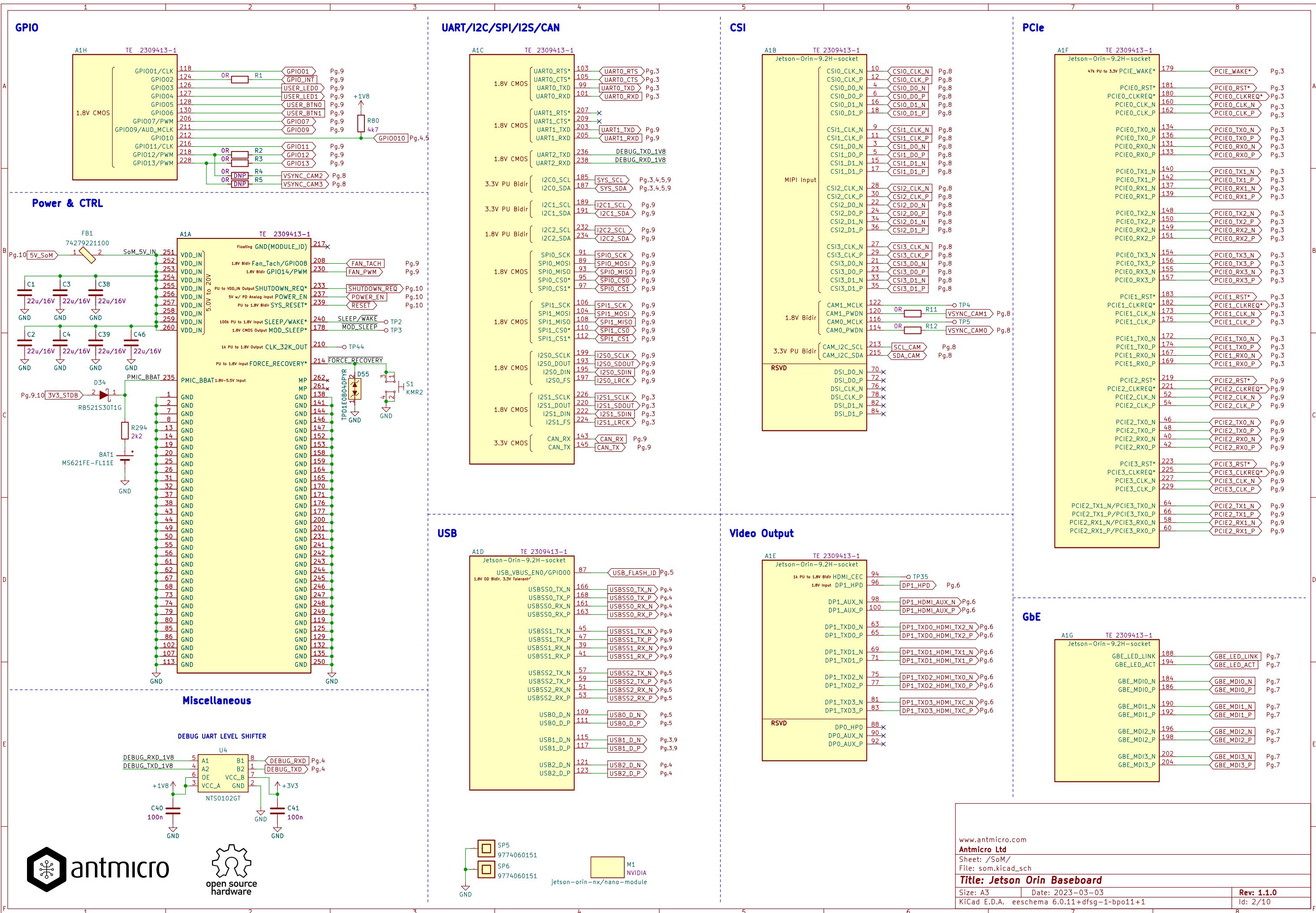
Sheet: / File: jetson-orin-baseboard.kicad_sch

Title: Jetson Orin Baseboard

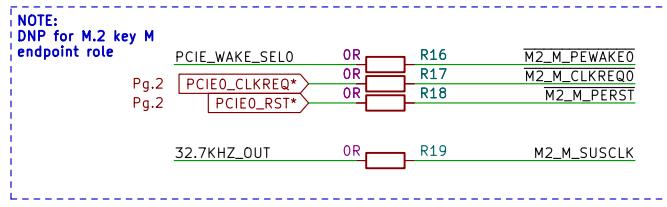
Size: A3 Date: 2023-03-03
KiCad E.D.A. eeschema 6.0.11+dfsg-1-bpo11+1

Rev: 1.1.0 Id: 1/10

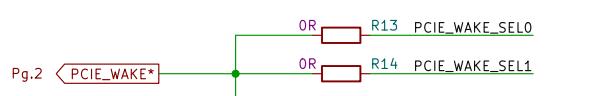
1 2 3 4 5 6 7 8



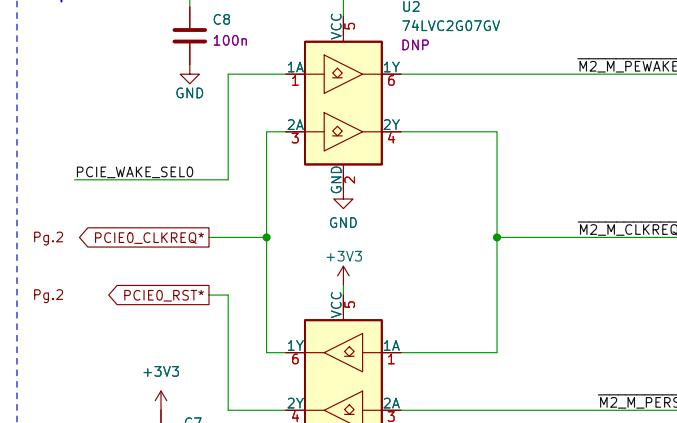
PCIe0 Root Port / Endpoint mode selector



M.2 PCIE_WAKE selector

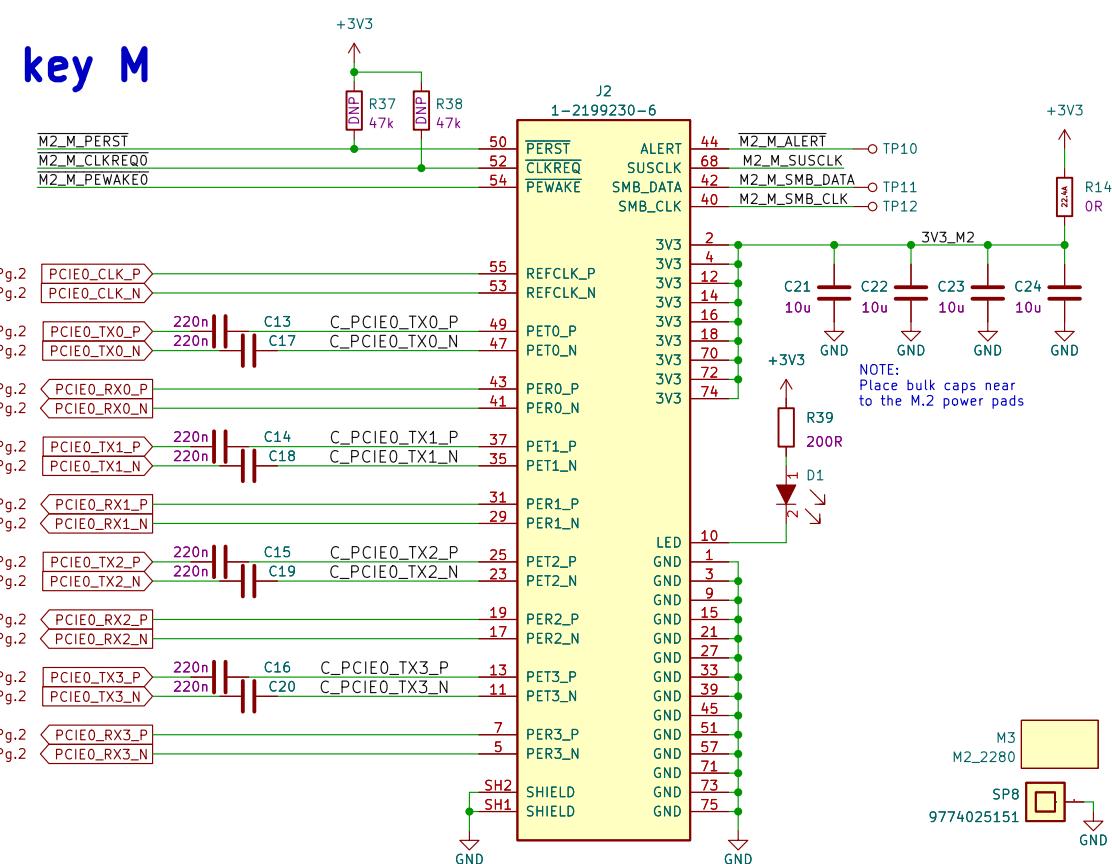


NOTE:
DNP for M.2 key M root port role

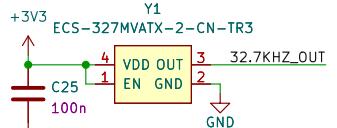


NOTE about PCIe 0 role switching:
For details, refer to the PCIe section of
"Jetson Orin NX Series Product Design Guide"
<https://developer.nvidia.com/jetson-orin-nx-series-design-guide>

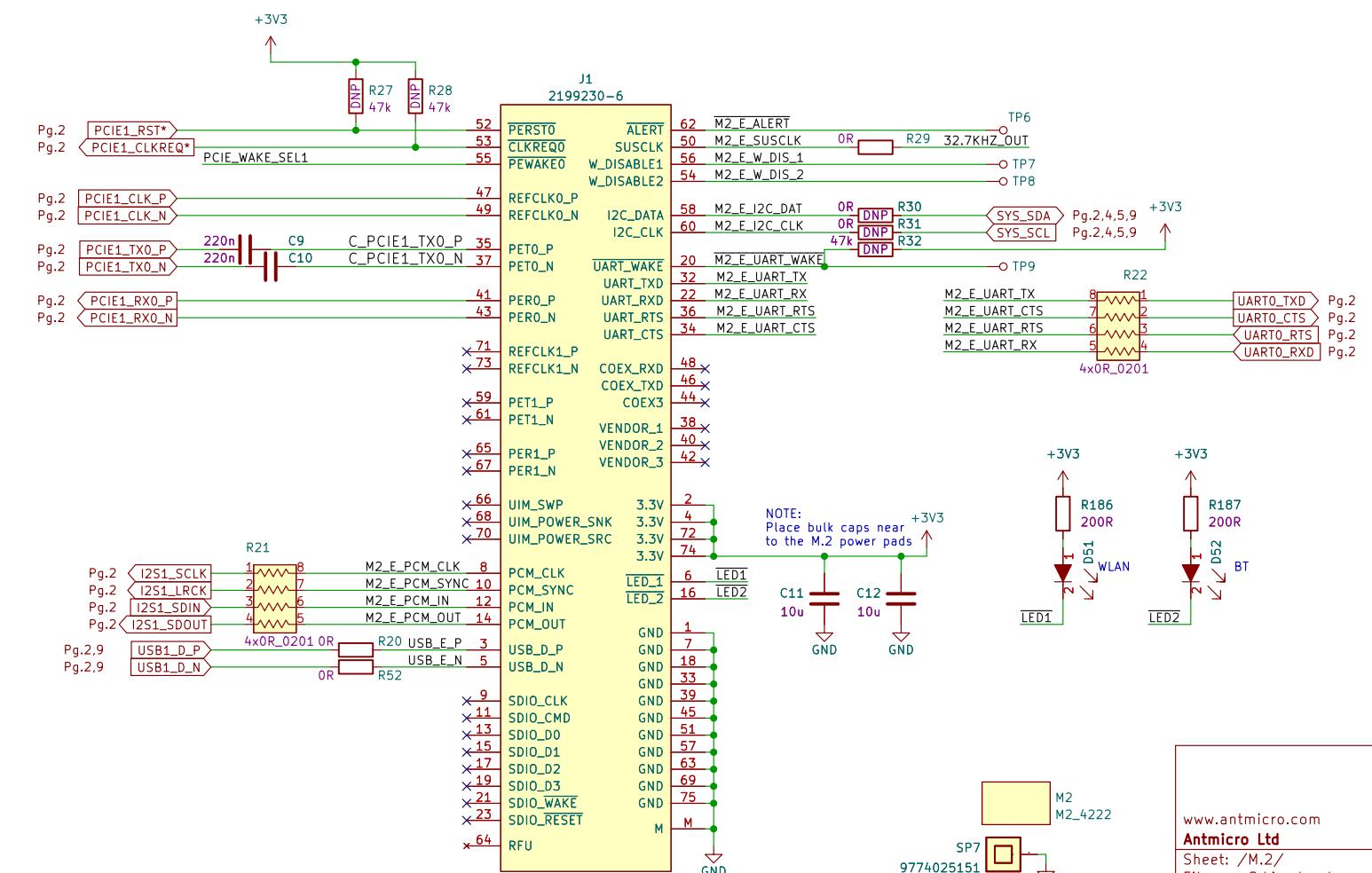
PCIe0 1x4 key M



SUSCLK SOURCE



PCIe1 1x1 key E



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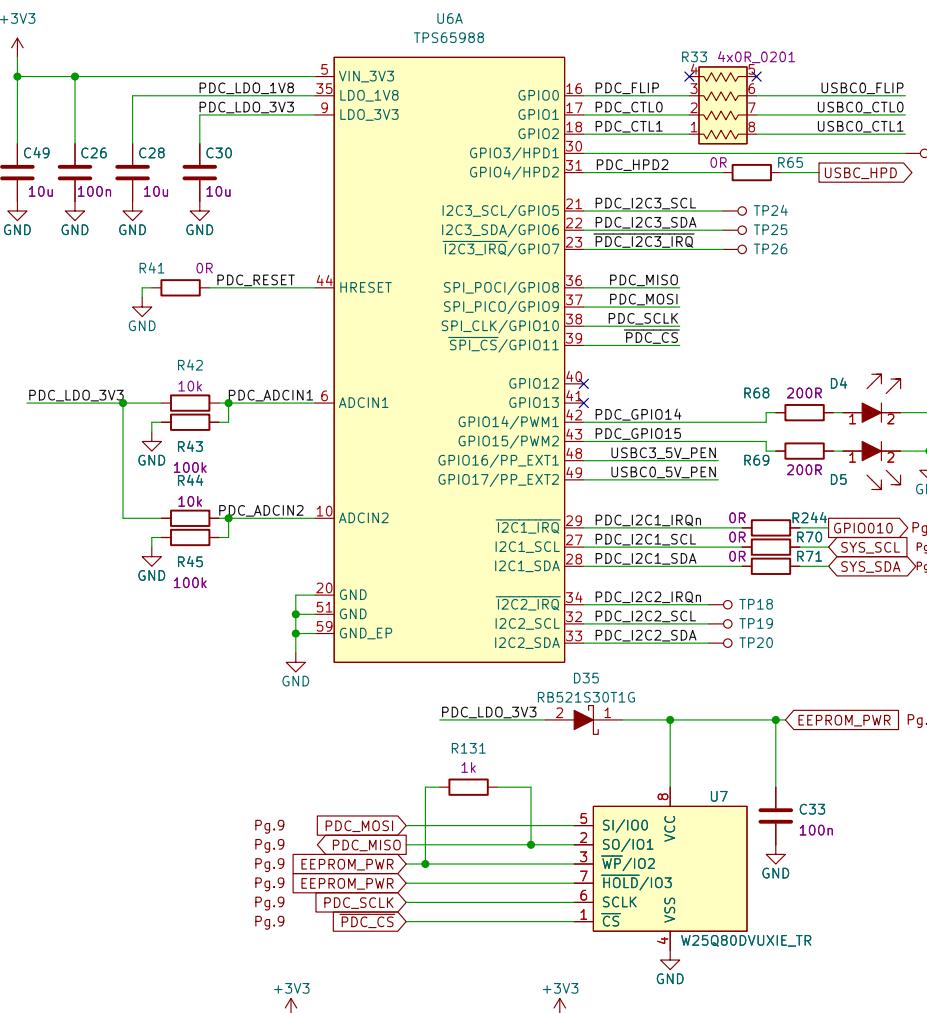
Sheet: /M.2/
File: m-2.kicad_sch

Title: Jetson Orin Baseboard

Size: A3 | Date: 2023-03-03
KiCad E.D.A. eeschema 6.0.11+dfsg-1-bpo11+1

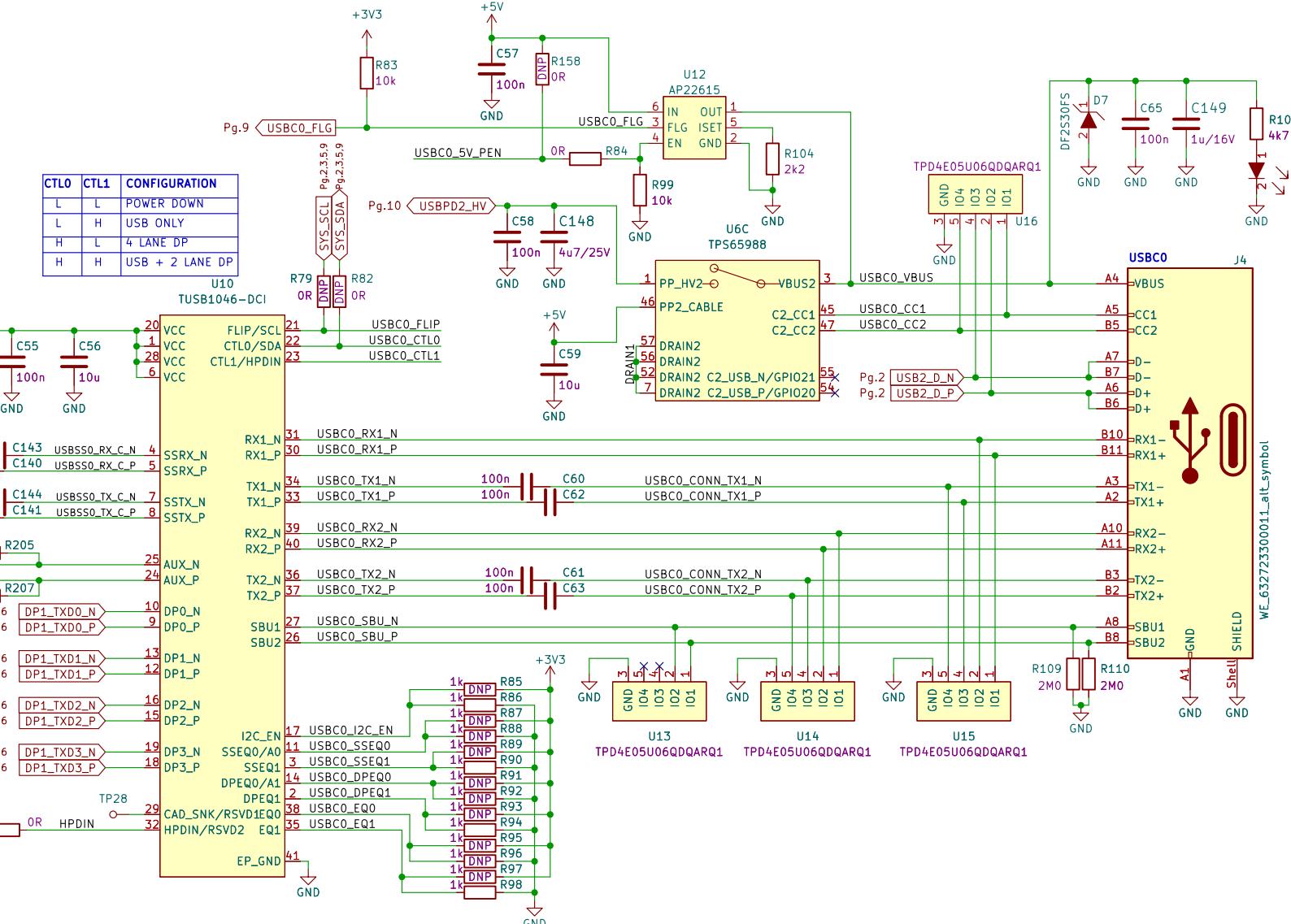
Rev: 1.1.0
Id: 3/10

USB PD Controller

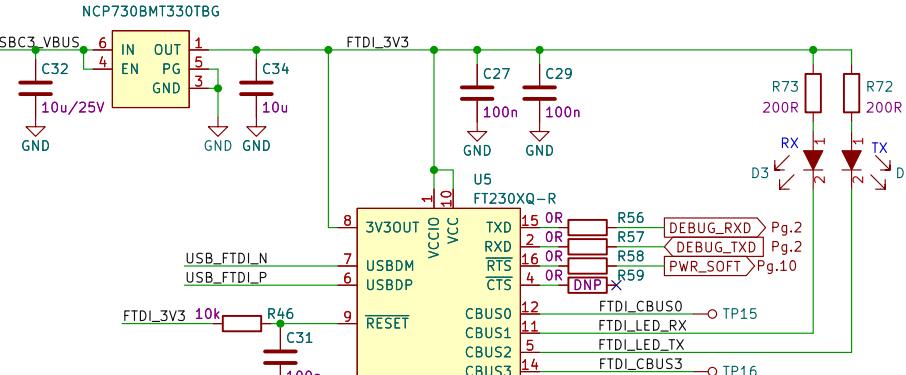


USB-C 0 Display Port alt mode

USB-PD Source/Sink

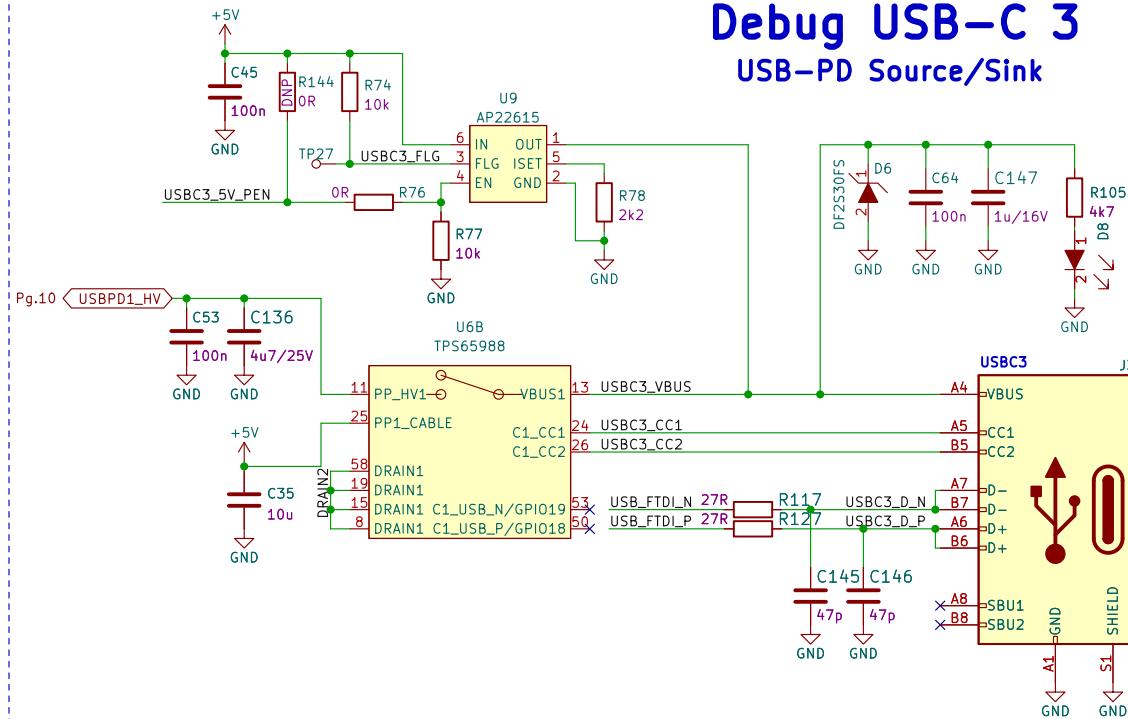


USB-UART Bridge

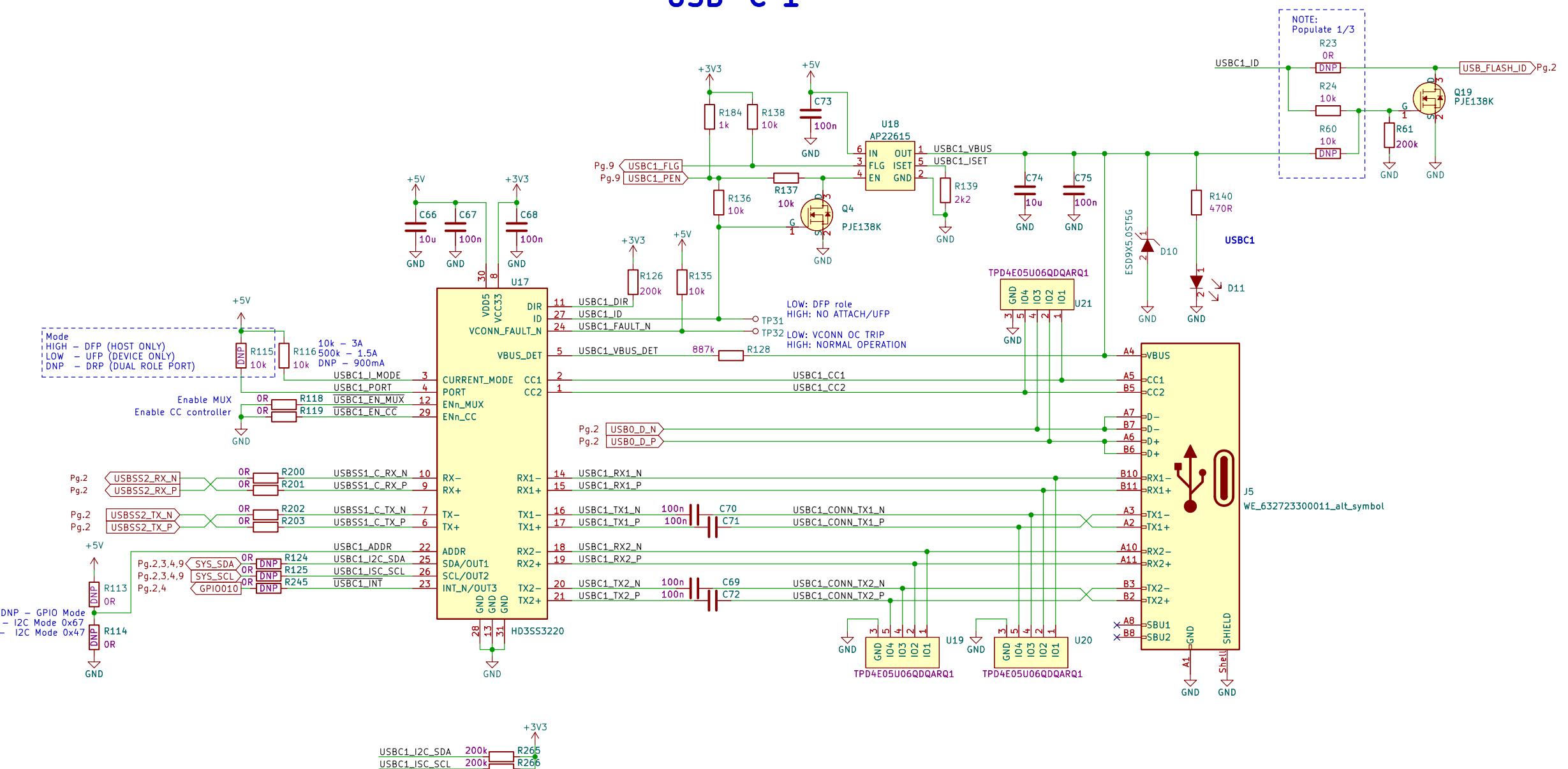


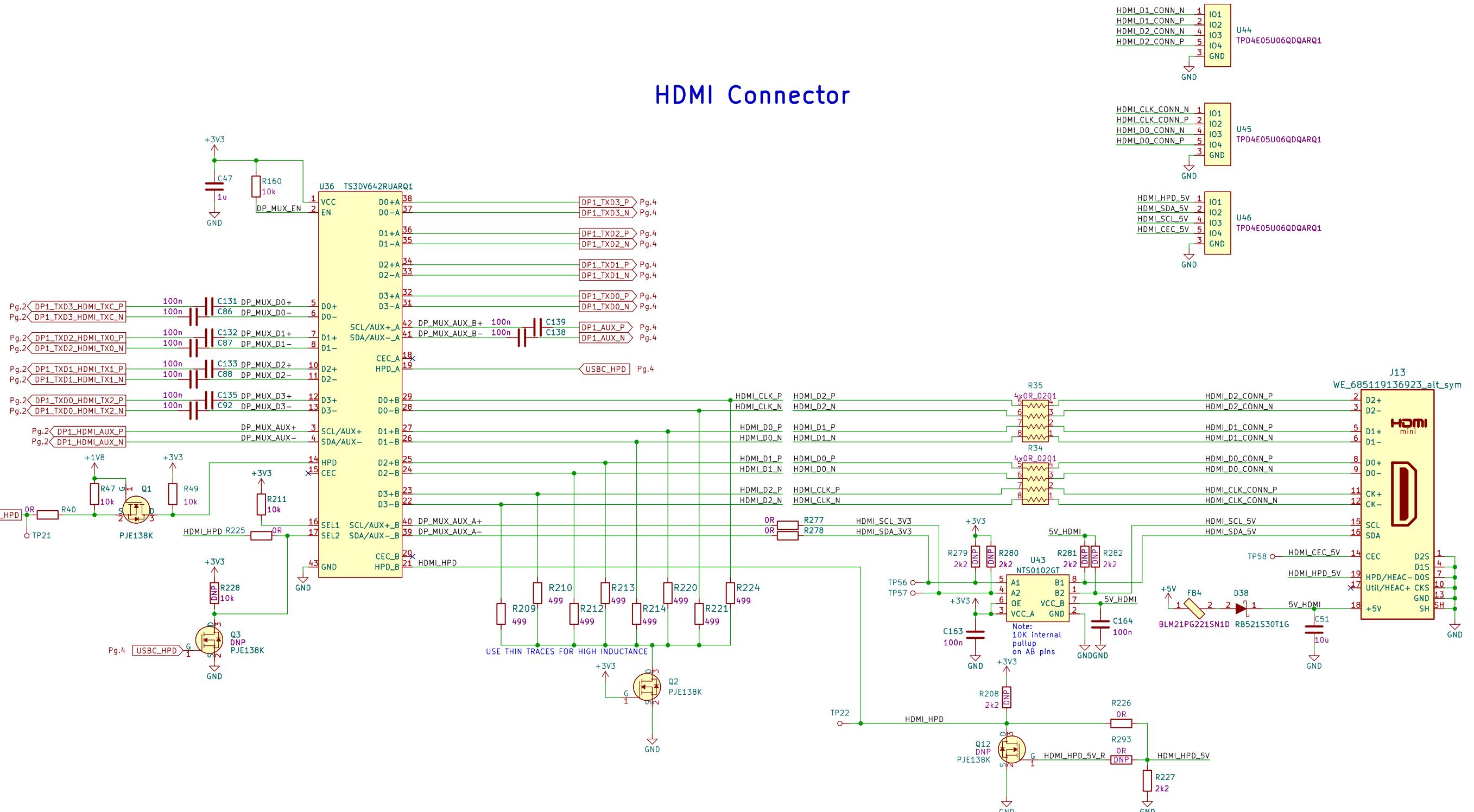
Debug USB-C 3

USB-PD Source/Sink

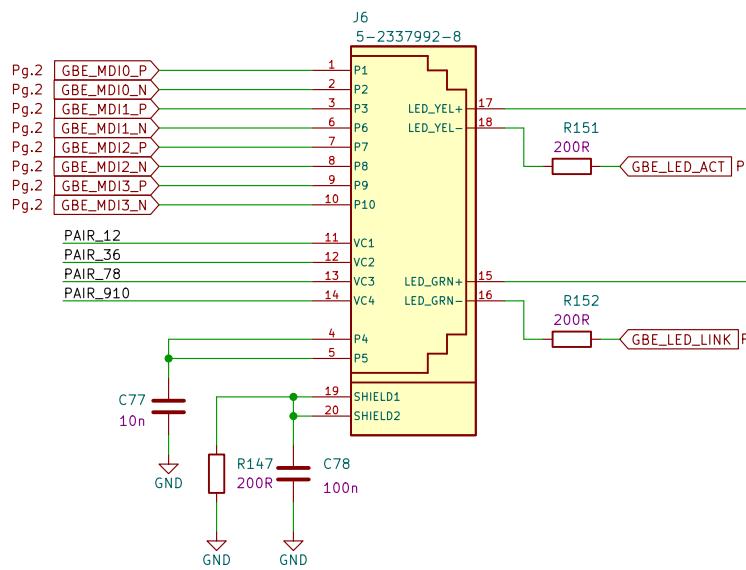


USB-C 1

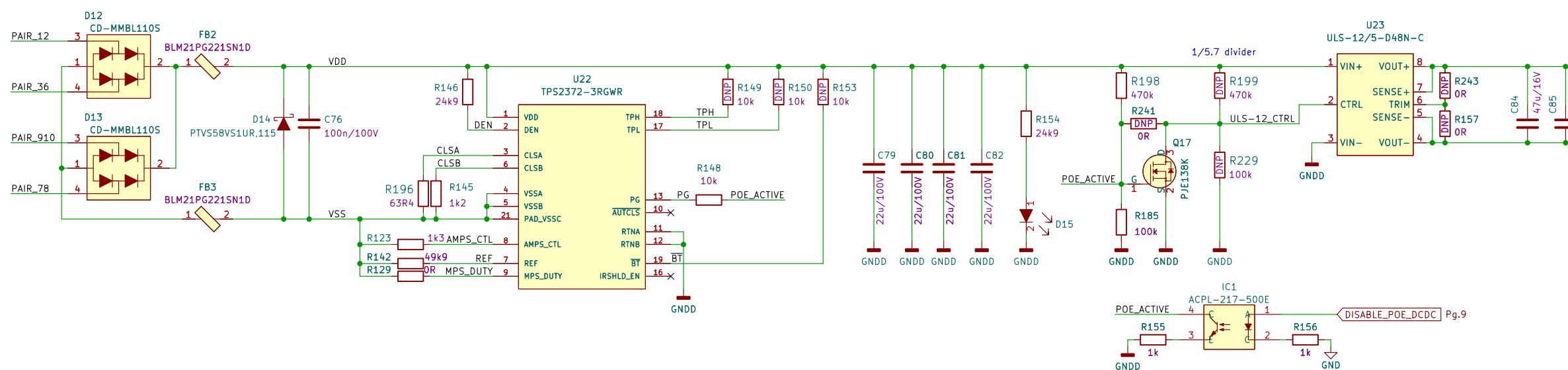




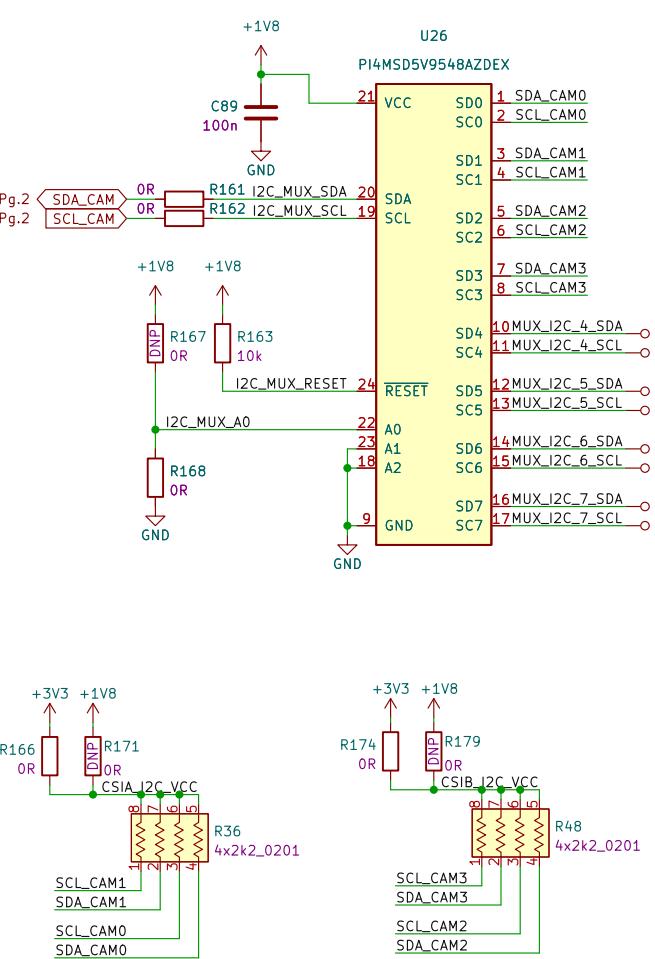
Ethernet Connector



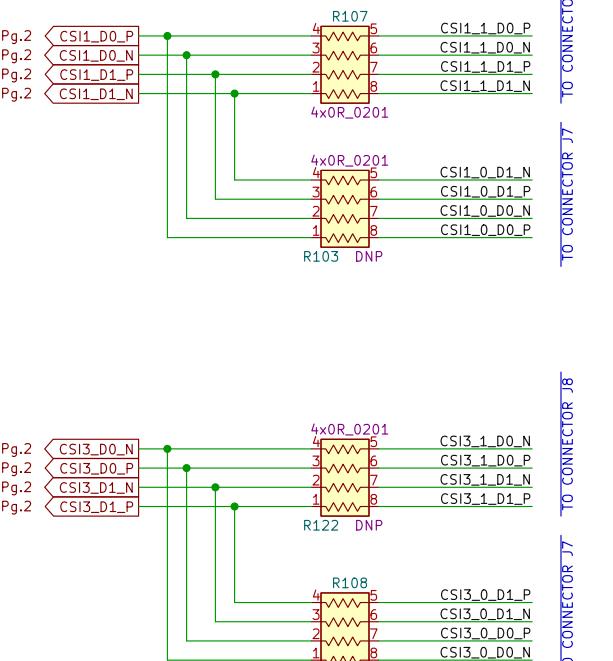
Power over Ethernet



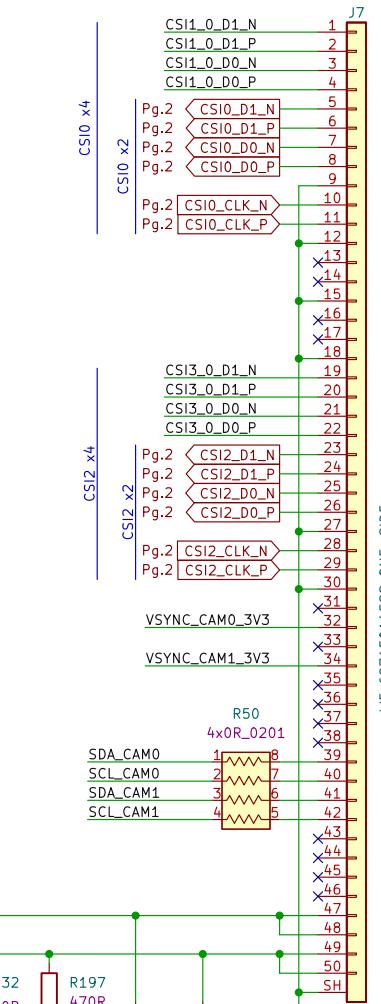
I2C Mux



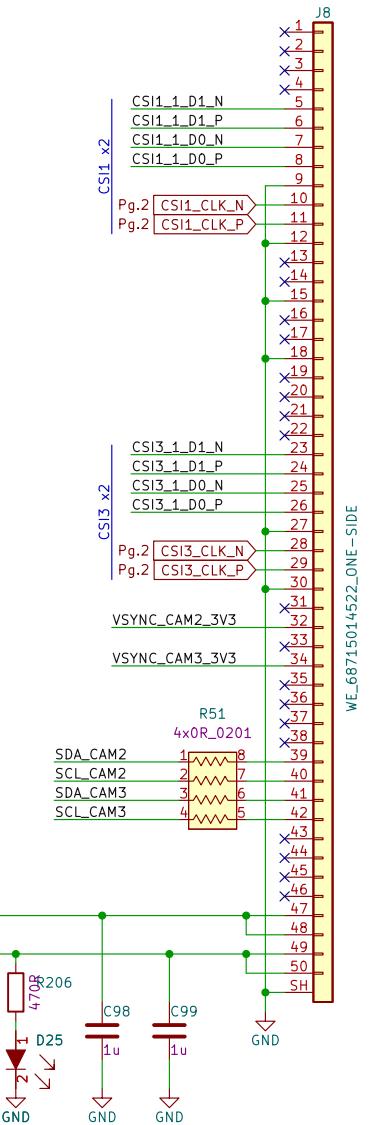
CSI Mux



CSI connector J7



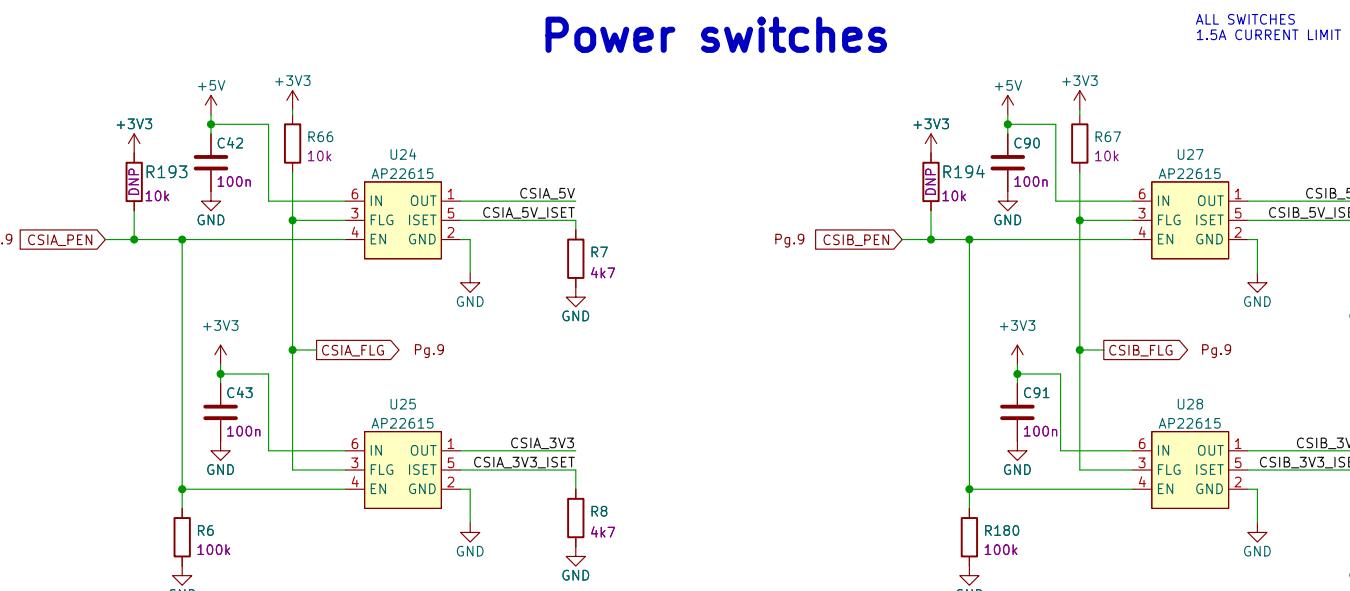
CSI connector J8



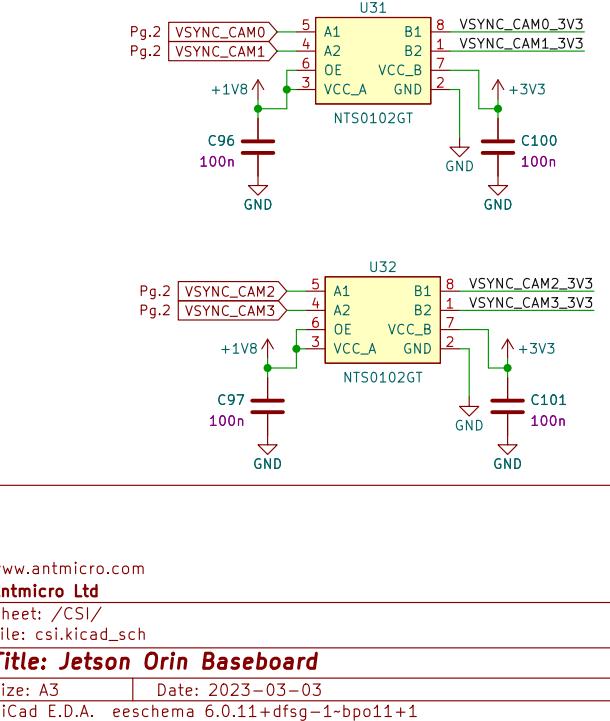
AVAILABLE CSI CONFIGURATIONS:

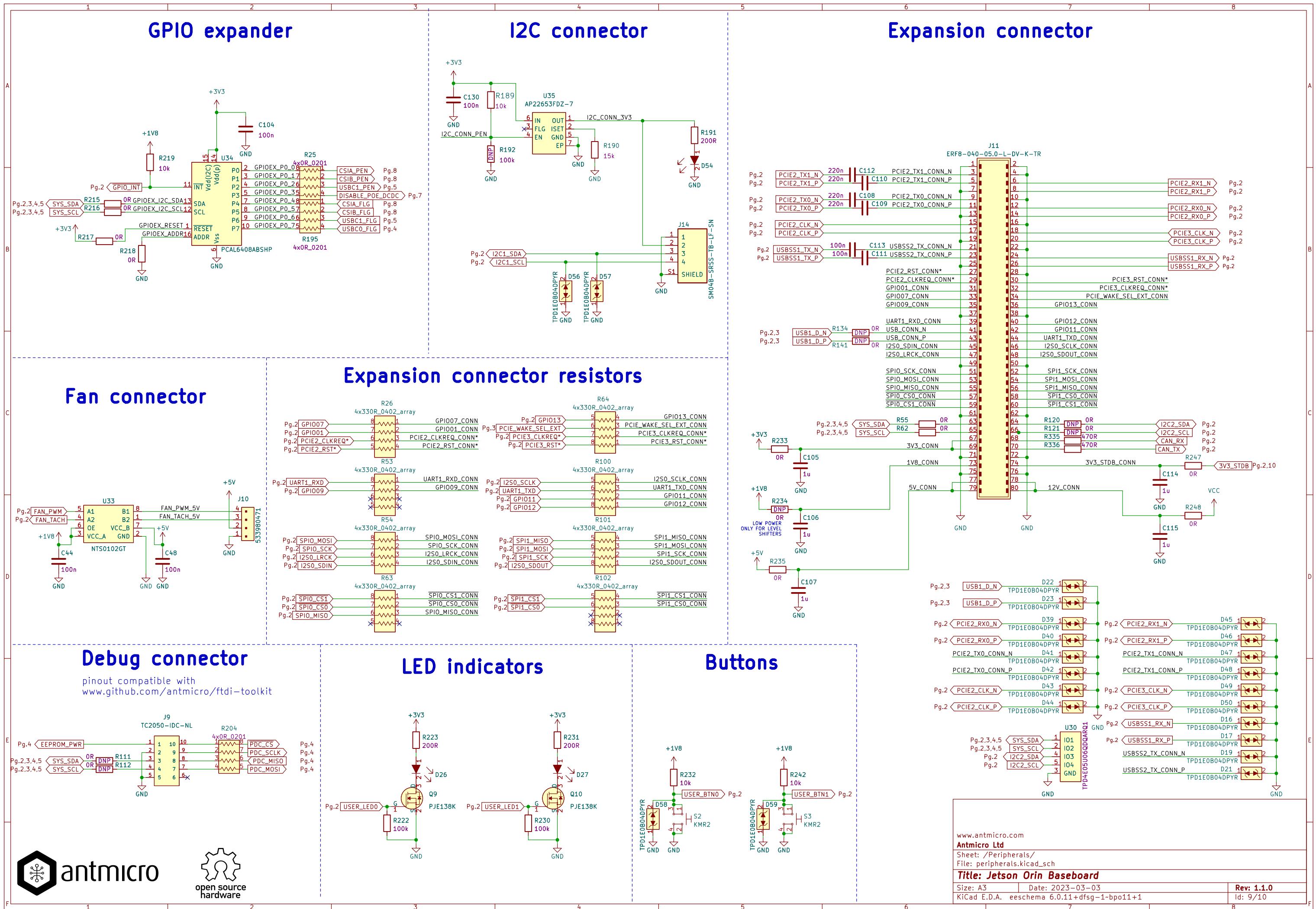
CONNECTOR J7	CONNECTOR J8
CSI0x4	CSI2x4
CSI0x4	CSI2x2
CSI0x2	CSI2x4
CSI0x2	CSI2x2
CSI3x2	CSI1x2

Power switches

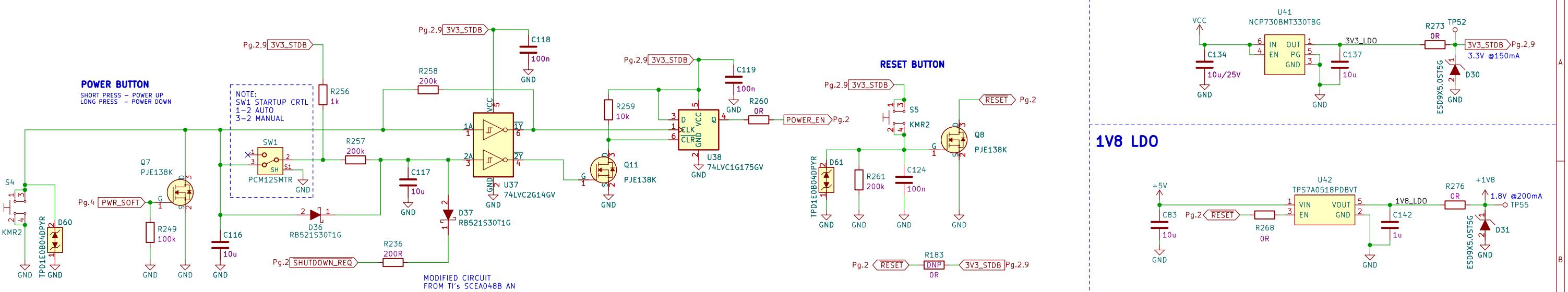


Level shifters

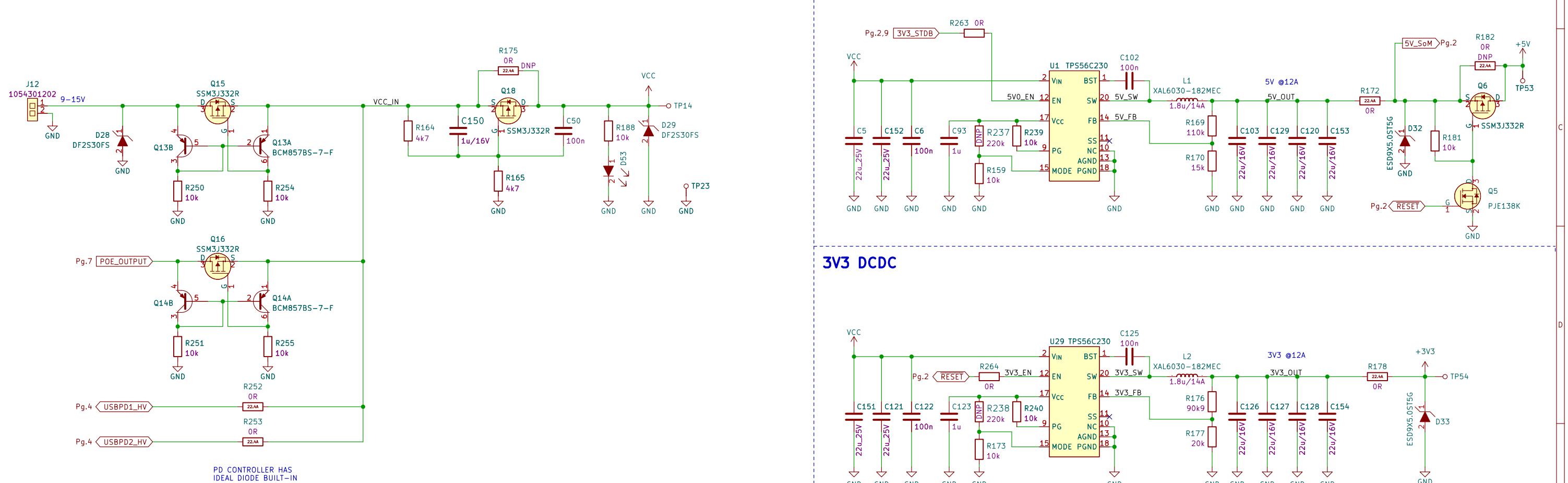




POWER-UP AND RESET CIRCUITRY



INPUT SELECTOR AND SOFT START



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Sheet: /Supply/

File: supply.kicad_sch

Title: Jetson Orin Baseboard
Size: A3 Date: 2023-03-03

KiCad E.D.A. eeschema 6.0.11+dfsg-1~bpo11+1

Id: 10/2

