

1 2 3 4 5 6 7 8

Power requirements & supplies:

VCC(9–15V, nom. 12V):
DCDC 5V: 2.8A
DCDC 3V3: 1.1A x2

5V @6A:
CM: 2A(RPi)/3A(PF)
GPIO conn.: 3A(max)
USB source: 1.5A
CSI: 1.5A(max)
LED Strip (DNP): 1A
DSI adapter: 0.8A(LVDS); 2A(max)
HDMI: 50mA+

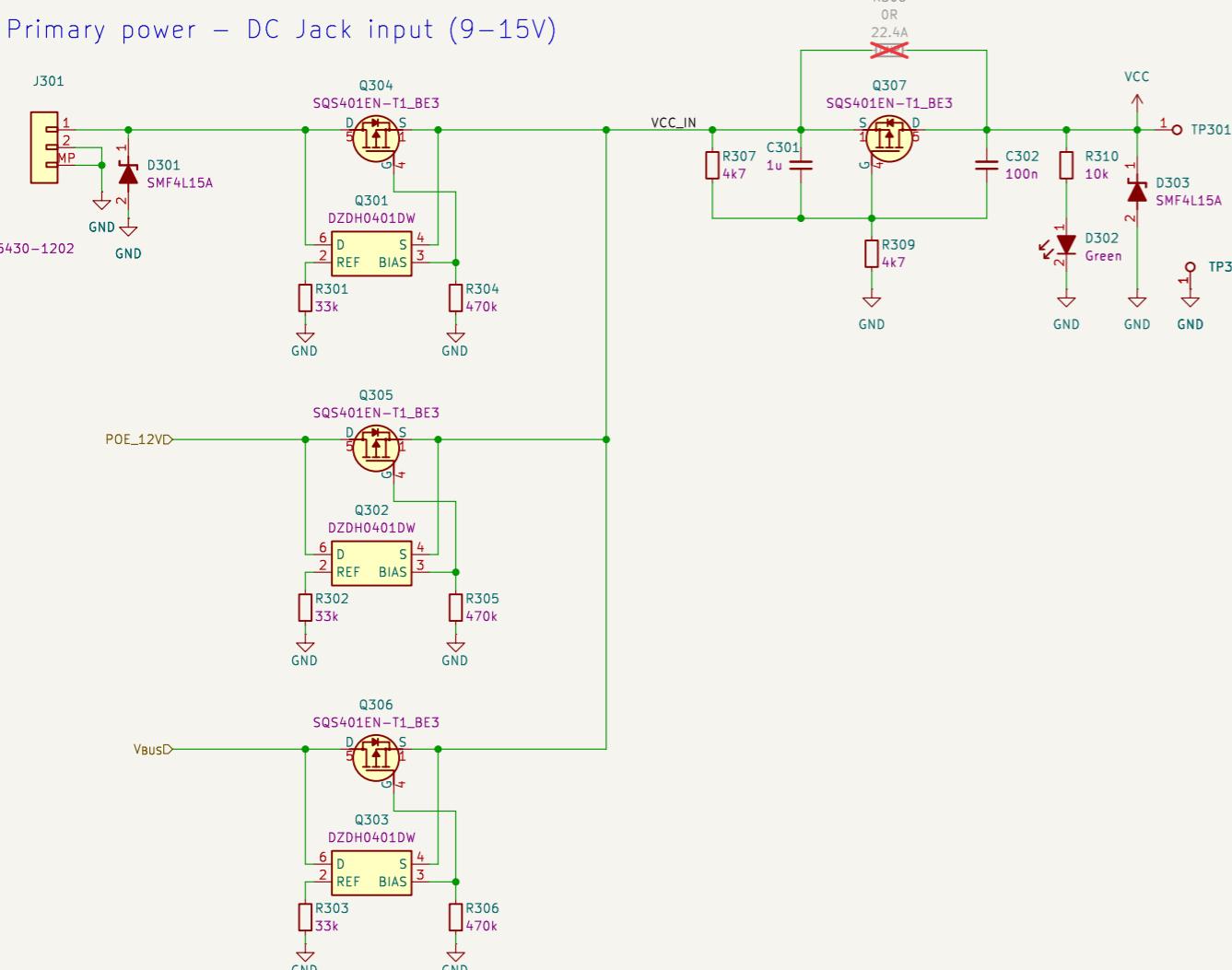
3V3 @3A:
GPIO conn: 3A (max)
CSI: 1.5A (max)
LED Strip: 1A (may be switched to 5V)
DSI adapter: 0.5A (max)
NFC: 350mA+
SD card: 100mA+?
proximity: 50mA/ 1A (max)
GPIO expander/levelshifters: 50mA

3V3–NVMe @3A:
M.2: 3A

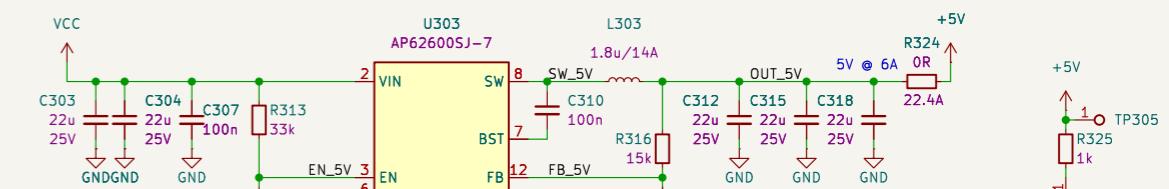
3V3 @600mA (from CM4)
unused

1V8 @600mA (from CM4)
unused

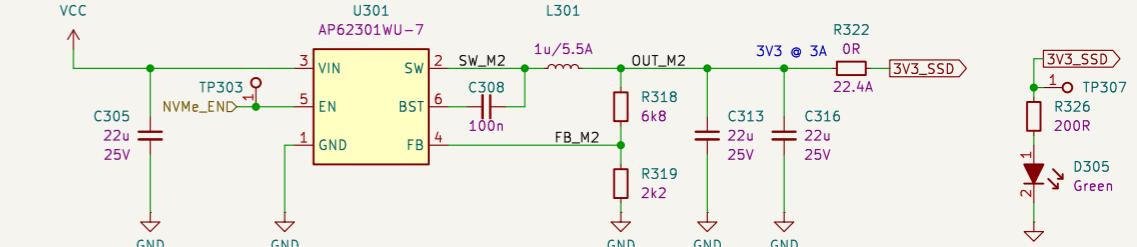
Input selector & soft start



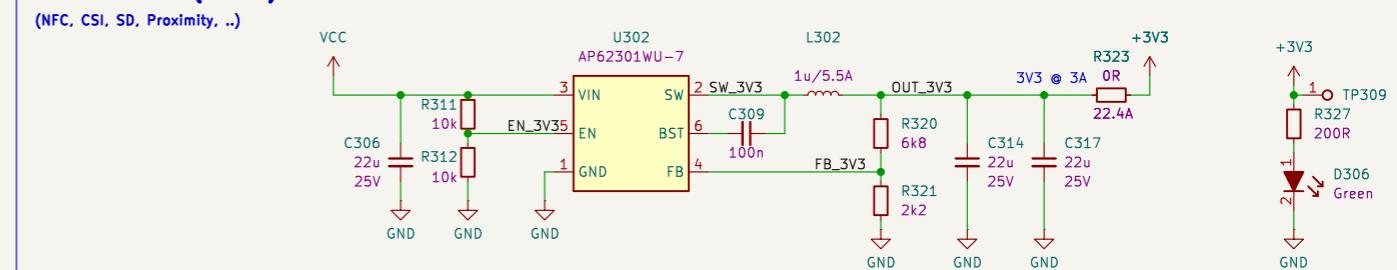
5V DCDC



3V3 DCDC (M.2 NVMe)



3V3 DCDC (Main)



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Sheet: /Supply/

File: supply.kicad_sch

Title: CM4 Baseboard

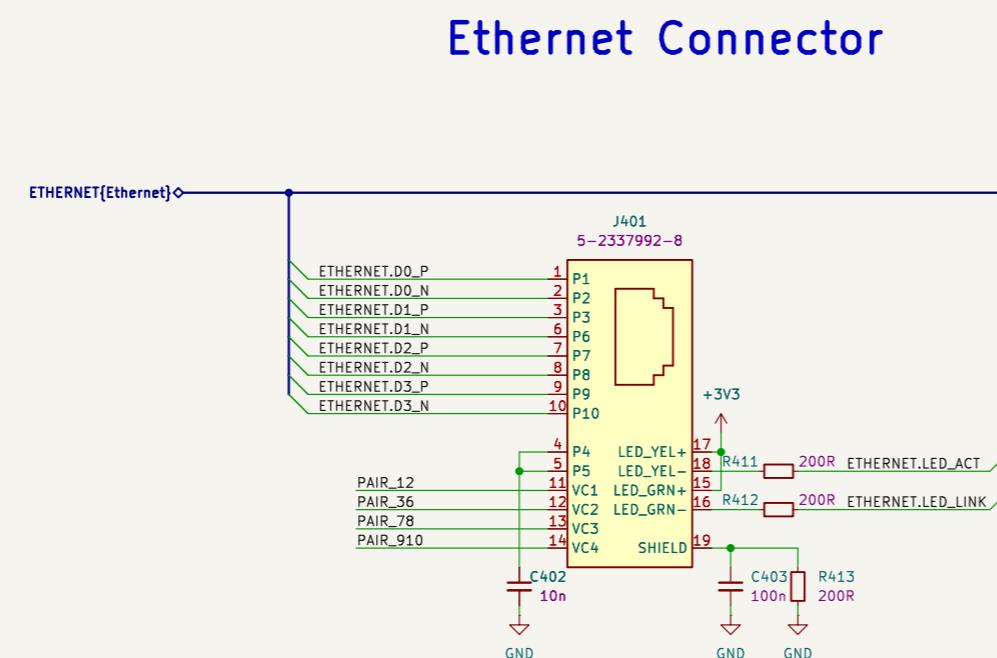
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KiCad E.D.A. kicad-cl 7.0.11

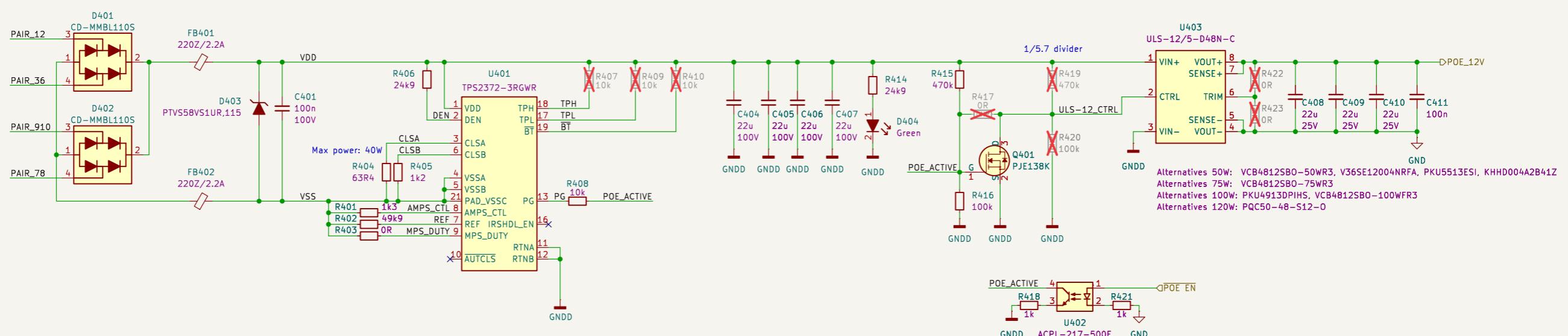
Rev: 1.0.0:21635

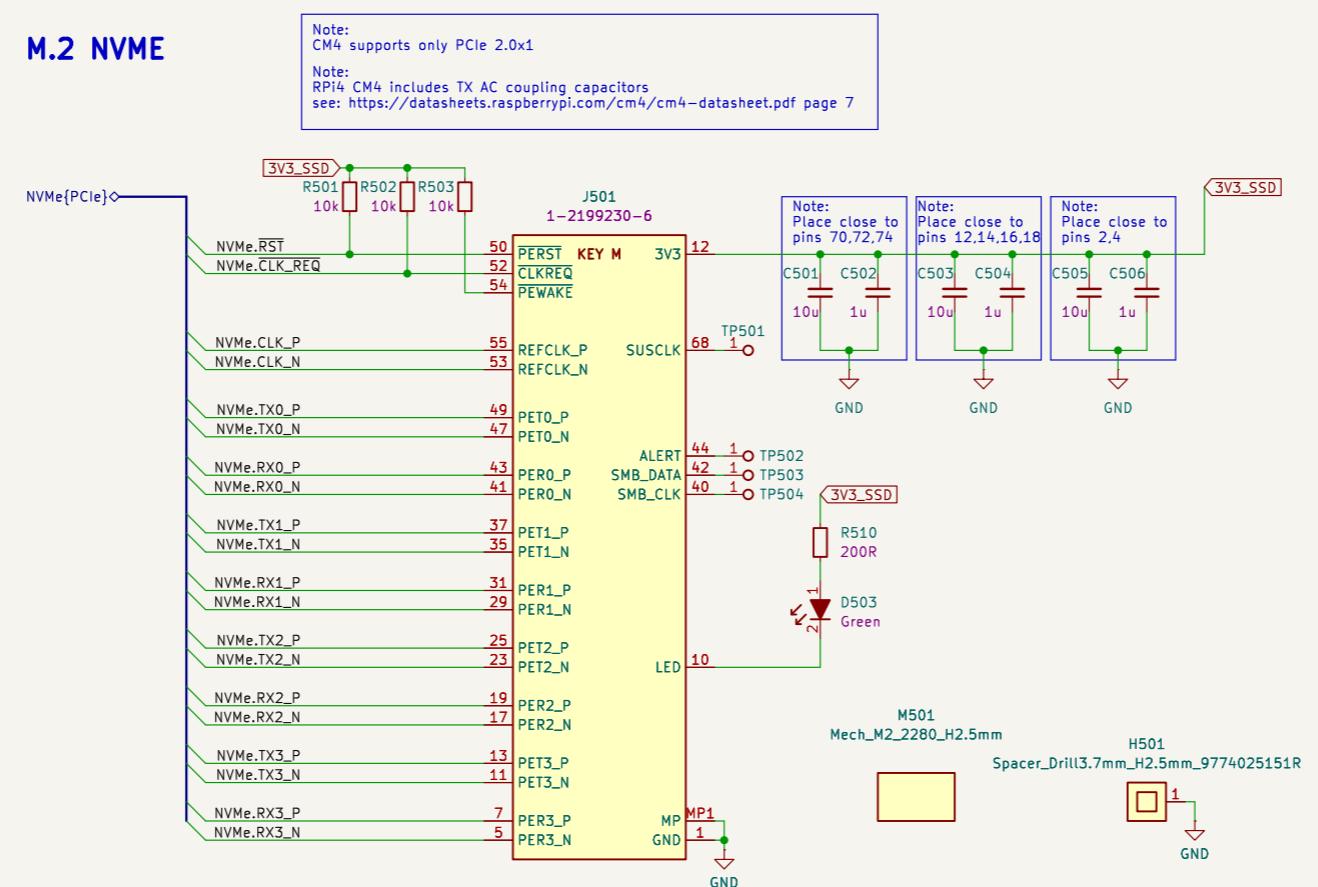
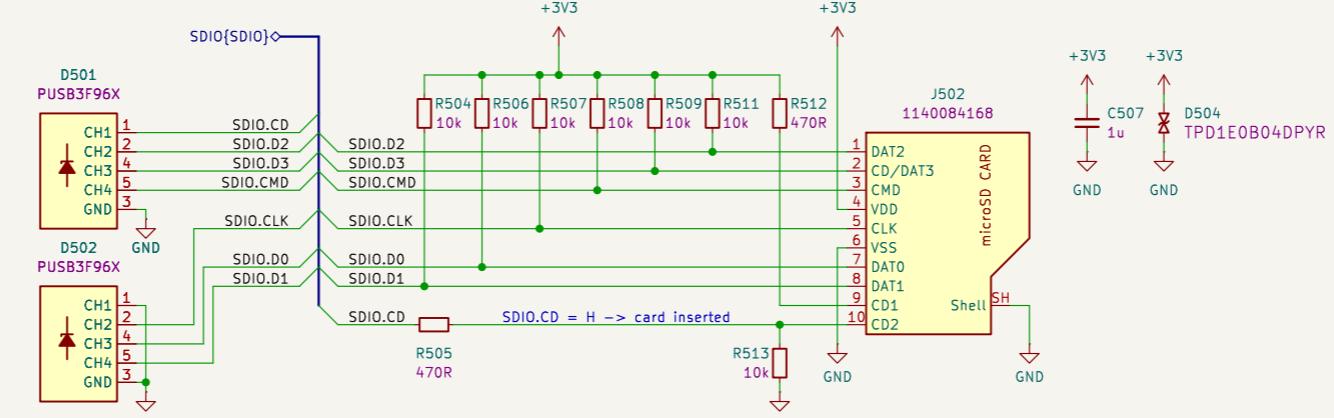
Id: 3/9





Power over Ethernet



M.2 NVME**Micro SD card slot**

1 2 3 4 5 6 7 8

A A

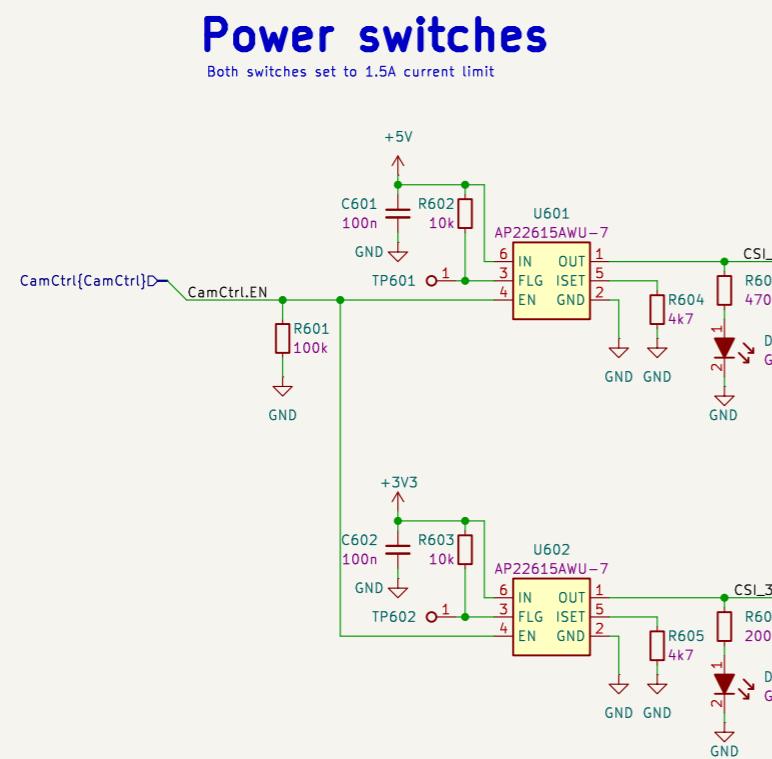
B B

C C

D D

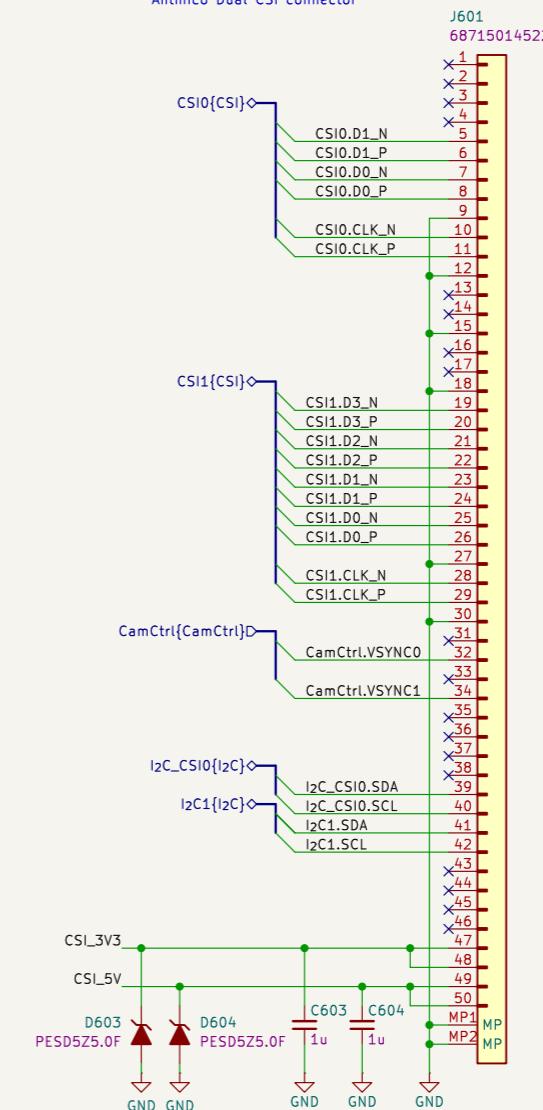
E E

F F

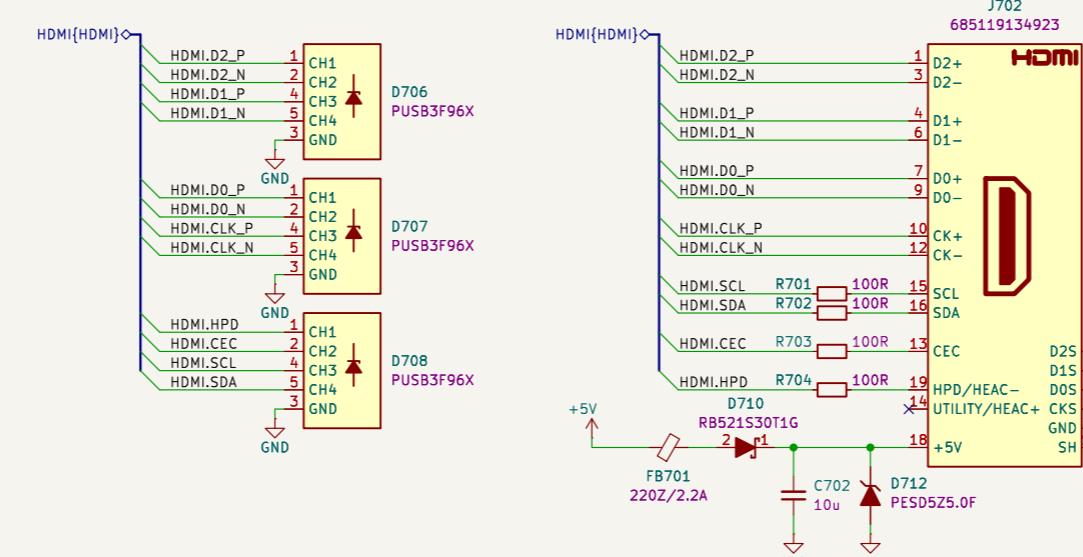


CSI connector

MIPI CSI-2 input via
Antmicro Dual CSI connector



HDMI Connector



Antmicro CM4 Baseboard DSI Connector

