

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+

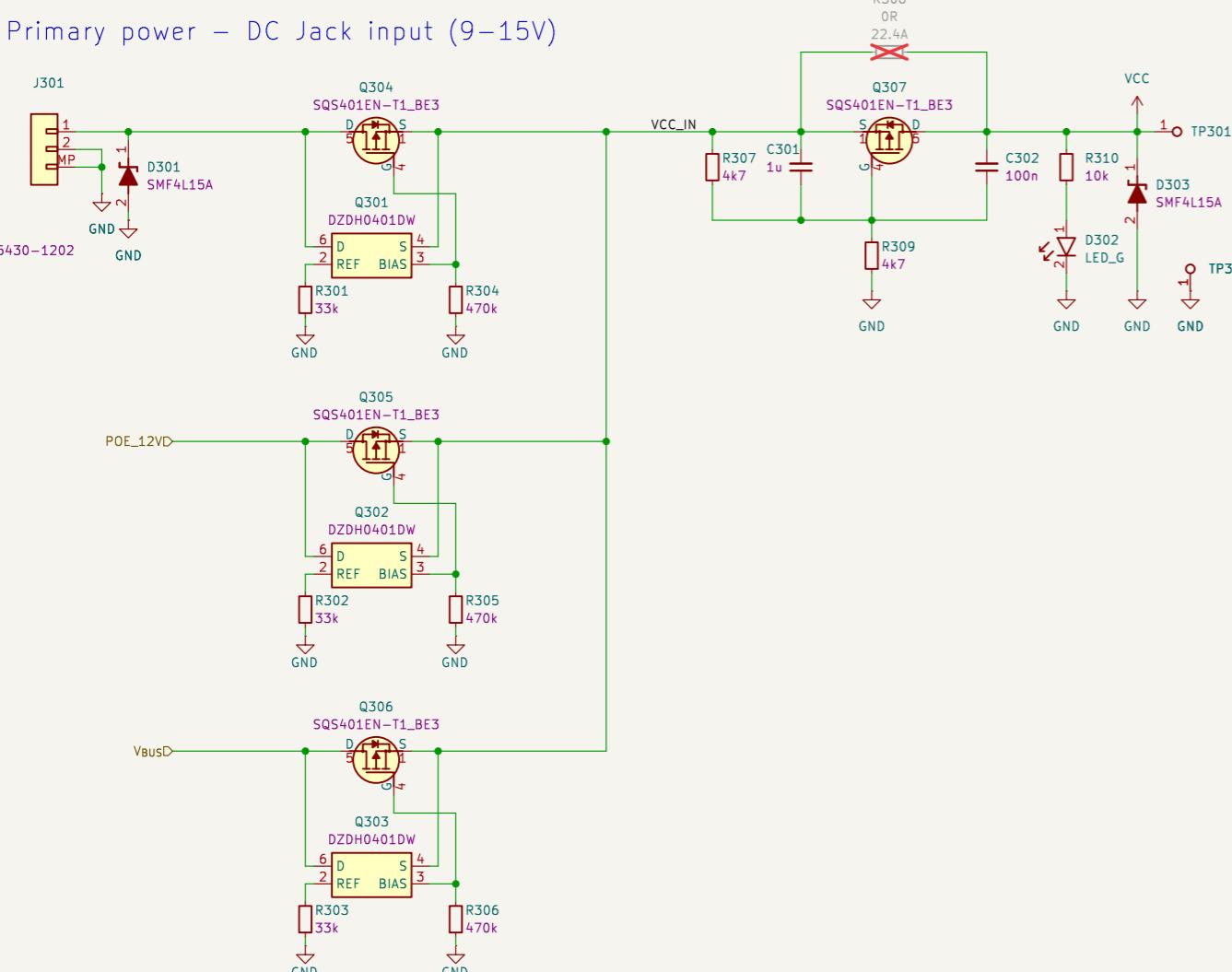
3V3 @3A:  
GPIO conn: 3A (max)  
CSI: 1.5A (max)  
LED Strip: 1A (may be switched to 5V)  
DSI adapter: 0.5A (max)  
NFC: 350mA+  
SD card: 100mA+?  
proximity: 50mA/ 1A (max)  
GPIO expander/levelshifters: 50mA

3V3–NVMe @3A:  
M.2: 3A

3V3 @600mA (from CM4)  
unused

1V8 @600mA (from CM4)  
unused

## Input selector & soft start



[www.antmicro.com](http://www.antmicro.com)

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Sheet: /Supply/

File: supply.kicad\_sch

Title: CM4 Baseboard

Size: A3 Date: 2024-03-22

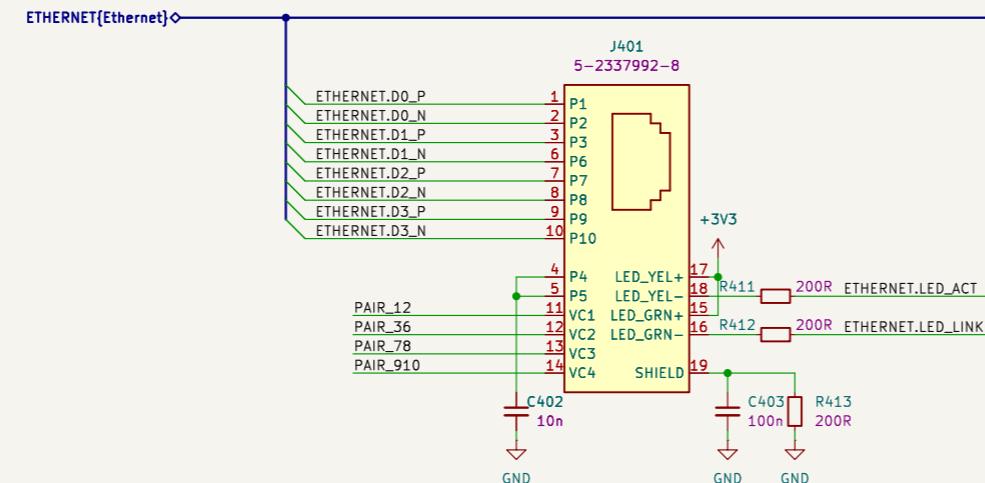
KiCad E.D.A. kicad-cl 7.0.11

Rev: 1.0.0:11c8a

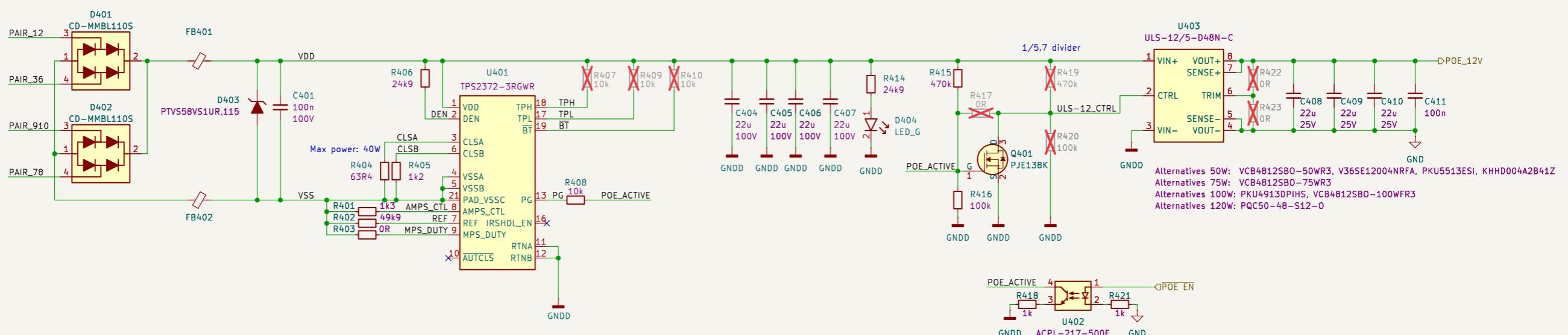
Id: 3/9



## Ethernet Connector



## Power over Ethernet



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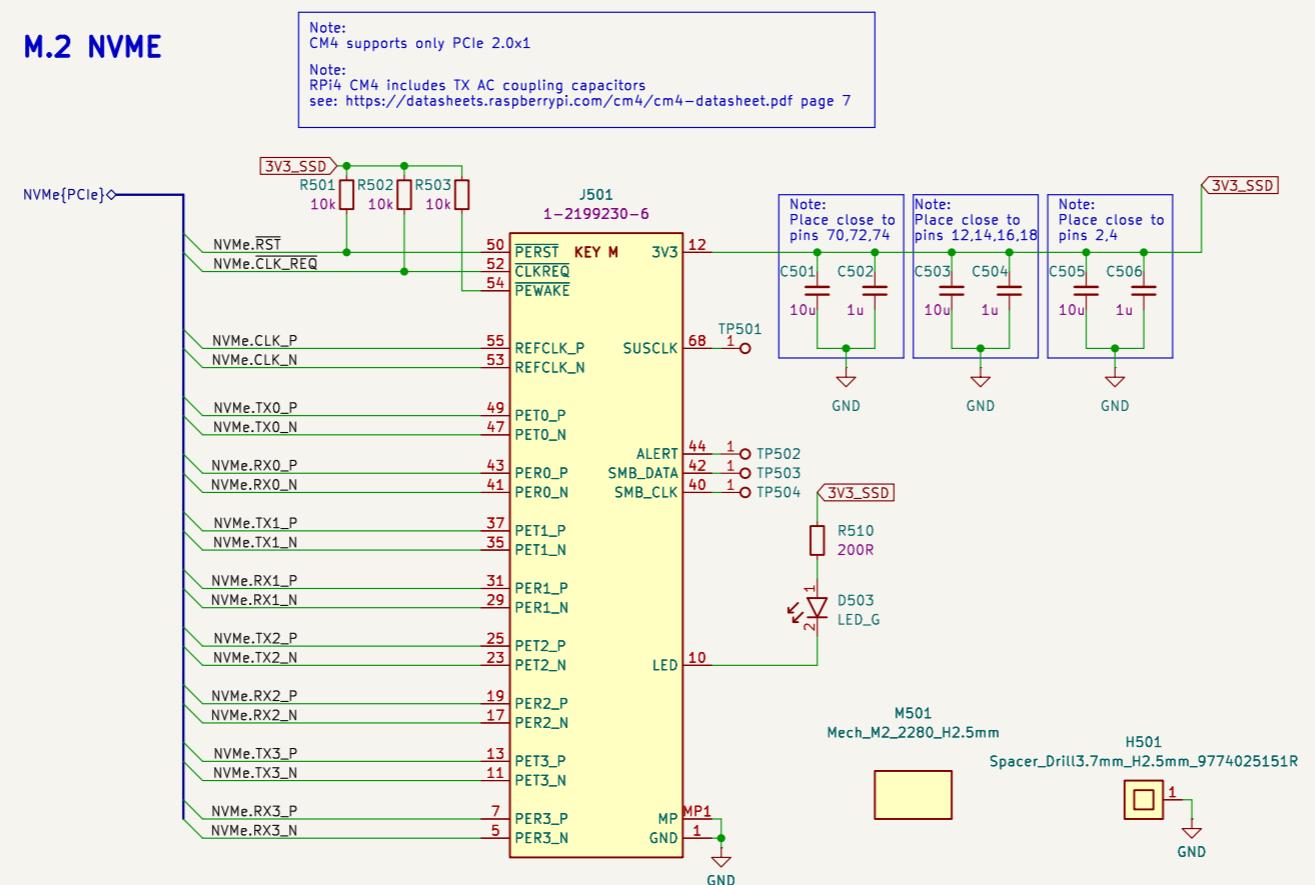
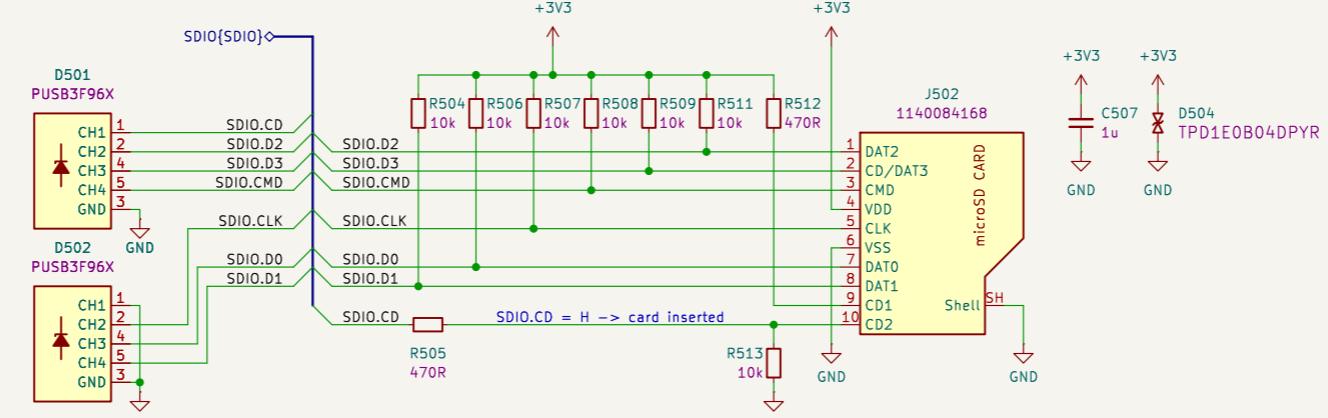
**Antmicro**

Sheet: /Ethernet/  
File: ethernet.kicad\_sch

**Title: CM4 Baseboard**

Size: A3 Date: 2024-03-22  
KiCad E.D.A. kicad-cl 7.0.11

Rev: 1.0.0:11c8a  
Id: 5/9

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

1 2 3 4 5 6 7 8

A A

B B

C C

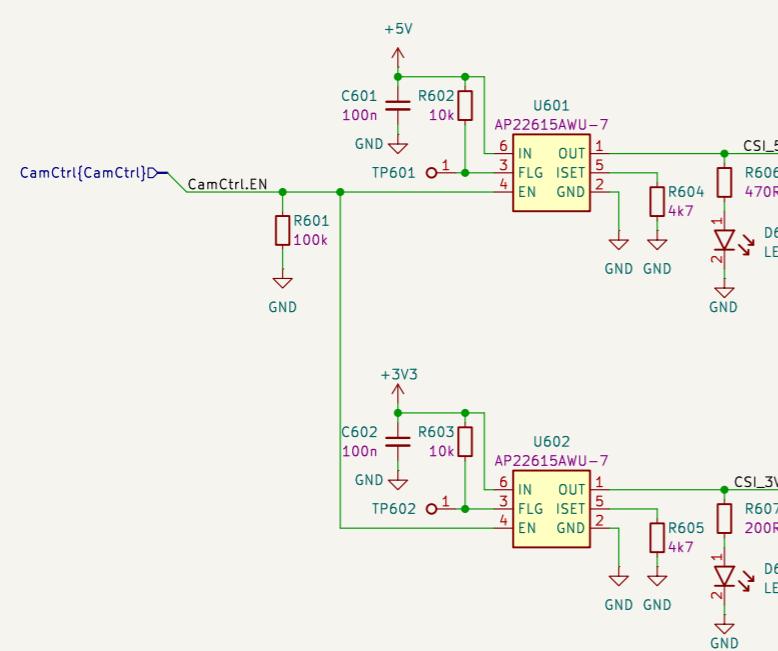
D D

E E

F F

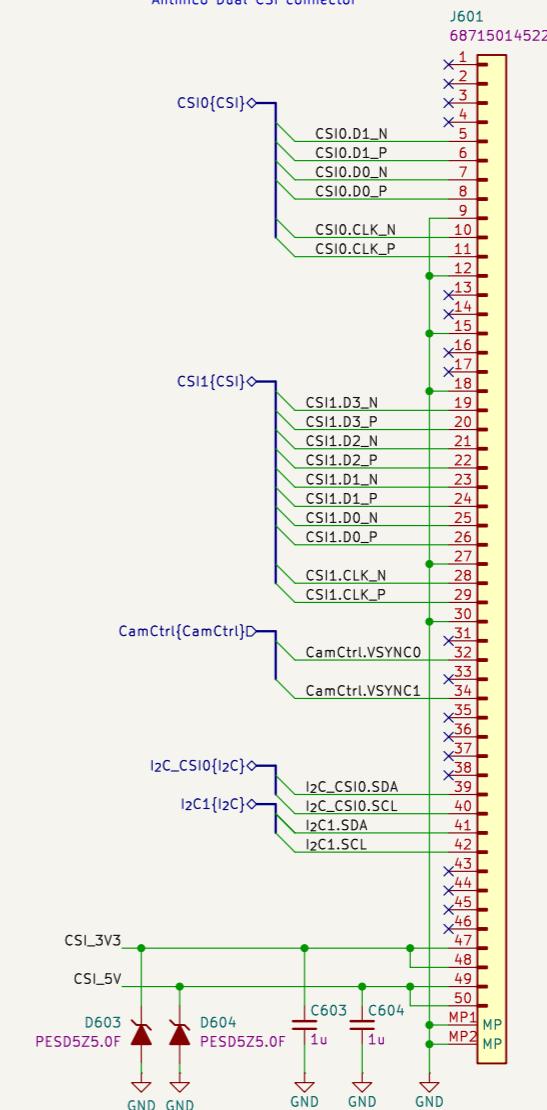
## Power switches

Both switches set to 1.5A current limit

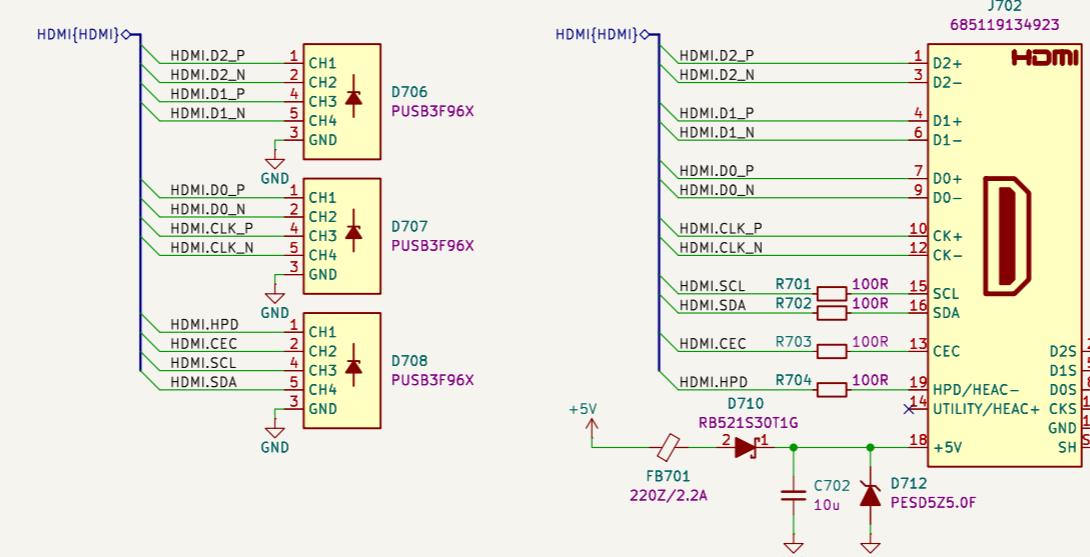


## CSI connector

MIPI CSI-2 input via  
Antmicro Dual CSI connector



## HDMI Connector



## Antmicro CM4 Baseboard DSI Connector

