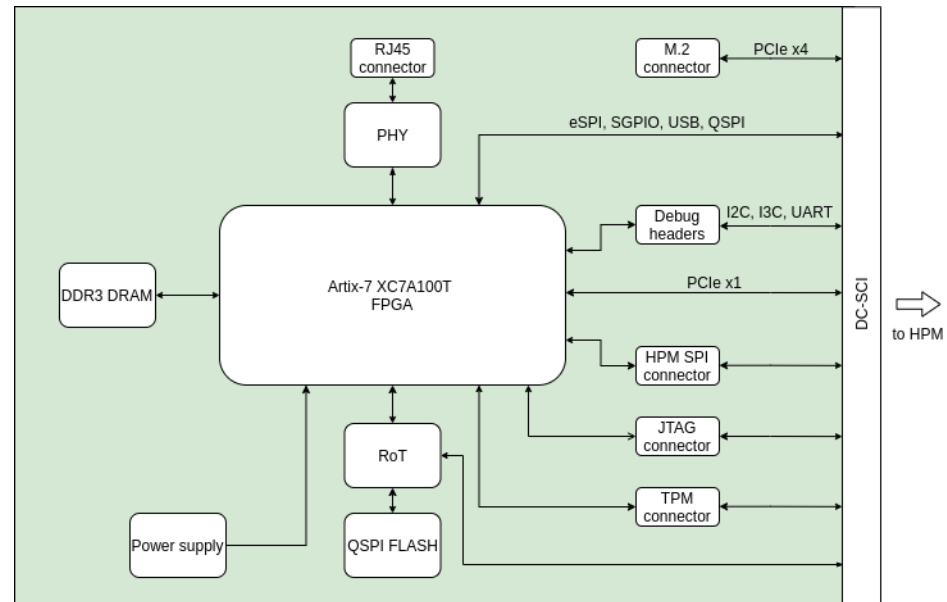


## Artix – Datacenter Secure Control Module (DC-SCM)

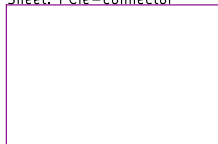


Sheet: Ethernet



File: ethernet.sch

Sheet: PCIe-connector



File: pcie-conn.sch

Sheet: RoT



File: rot.sch

Sheet: Edge connector



File: edge-connector.sch

Sheet: Interfaces



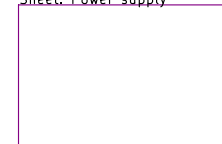
File: interfaces.sch

Sheet: DDR3



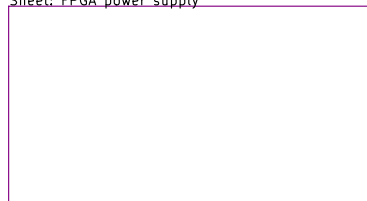
File: ddr3.sch

Sheet: Power supply



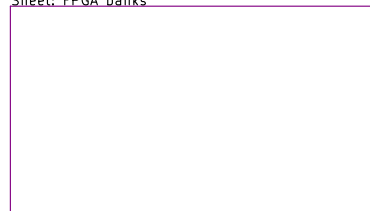
File: power-supply.sch

Sheet: FPGA power supply



File: fpga-power-supply.sch

Sheet: FPGA banks



File: fpga-banks.sch

Sheet: /

File: artix-dc-scm.sch

**Title: Artix – Datacenter Secure Control Module (DC-SCM)**

Size: A4

Date:

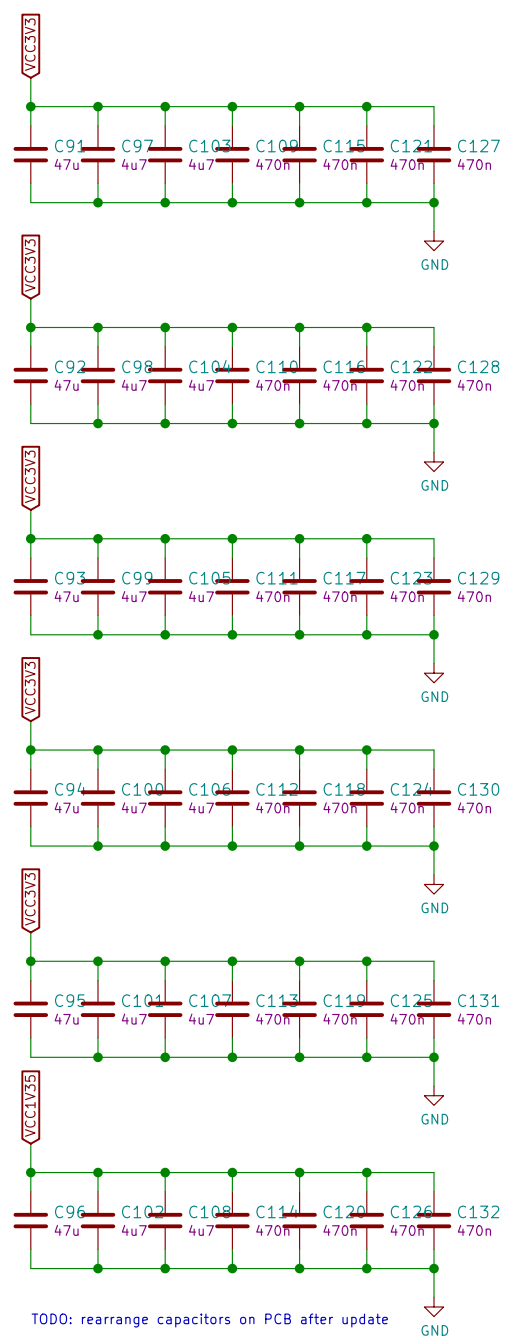
Rev: 1.0.0

KiCad E.D.A. kicad 5.1.5+dfsg1-2bpo10+1

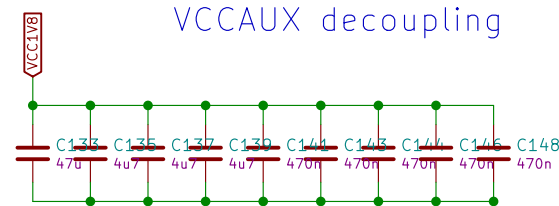
Id: 1/10

FPGA power supply

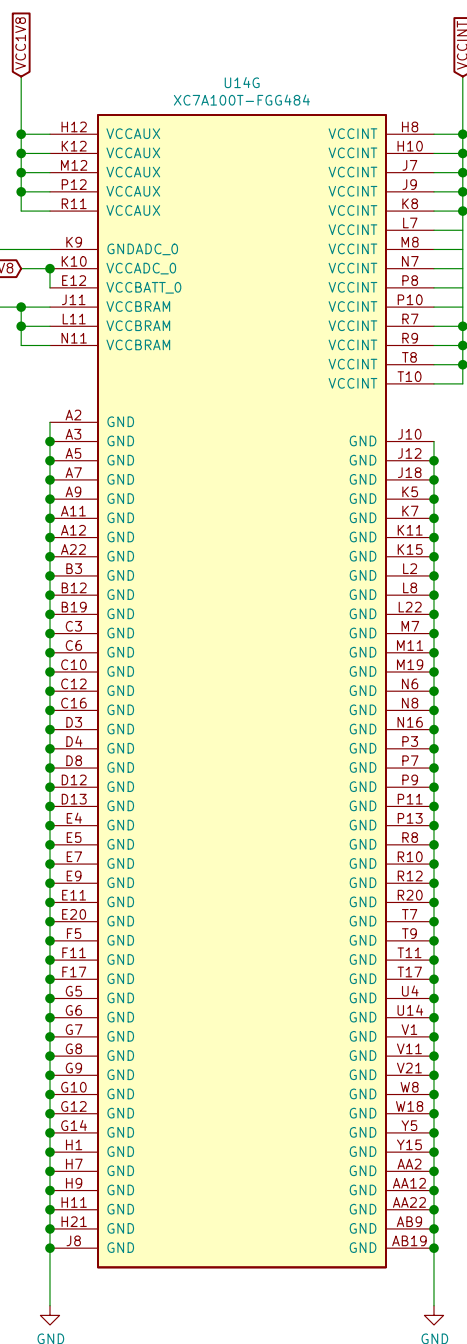
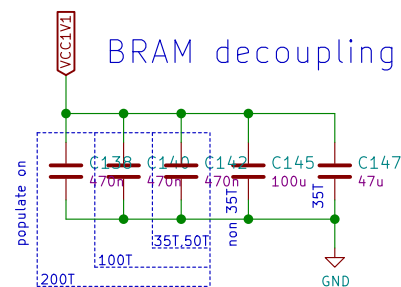
## Banks decoupling



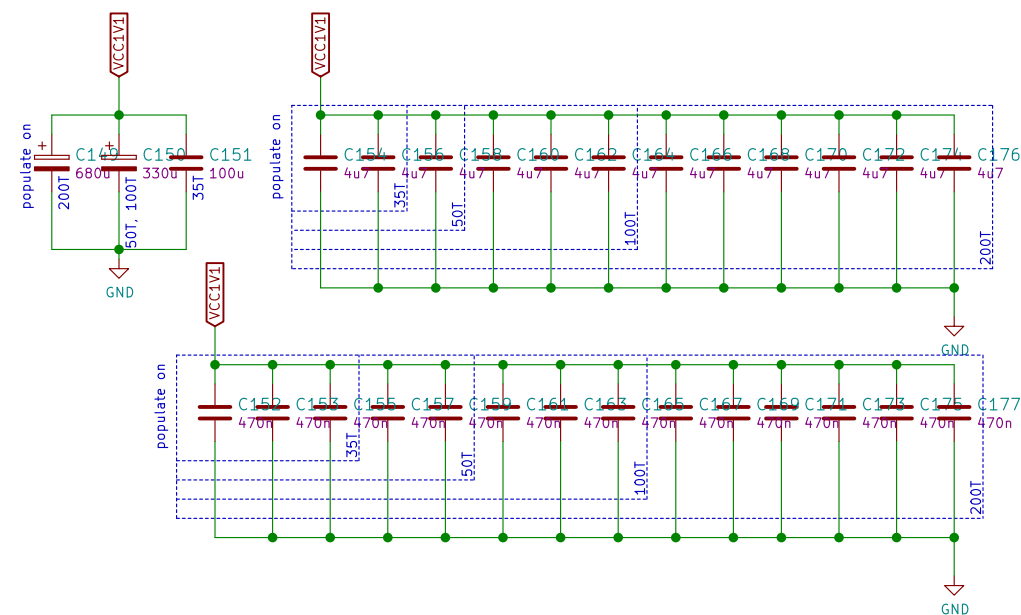
## VCCAUX decoupling



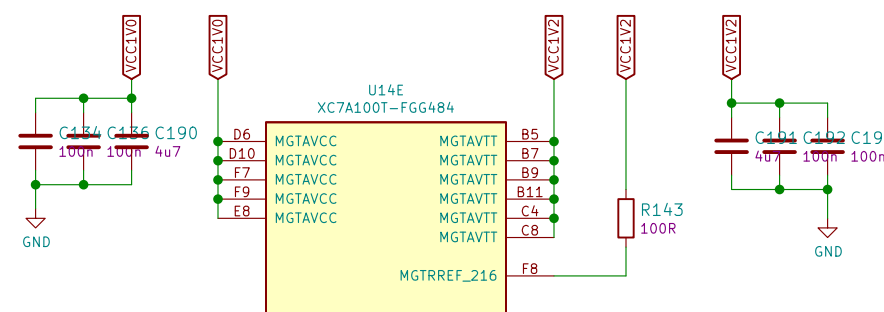
## BRAM decoupling



VCCINT decoupling

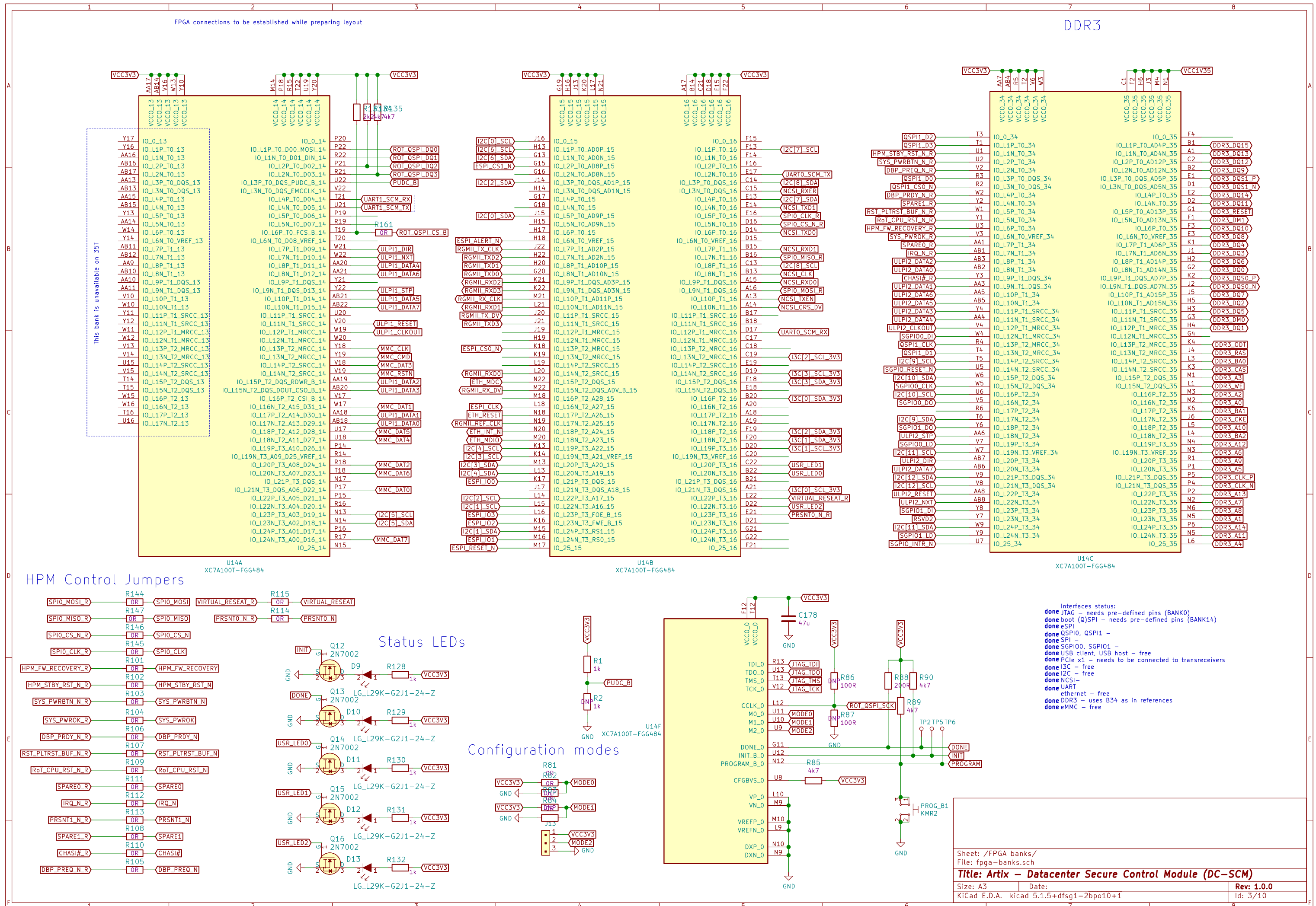


Transceiver supply

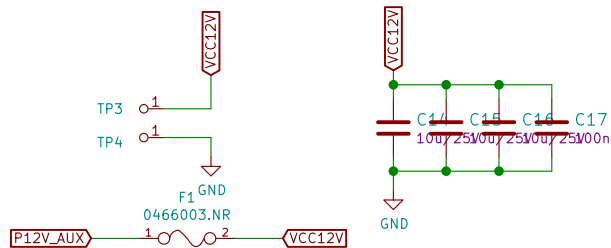


FPGA connections to be established while preparing layout

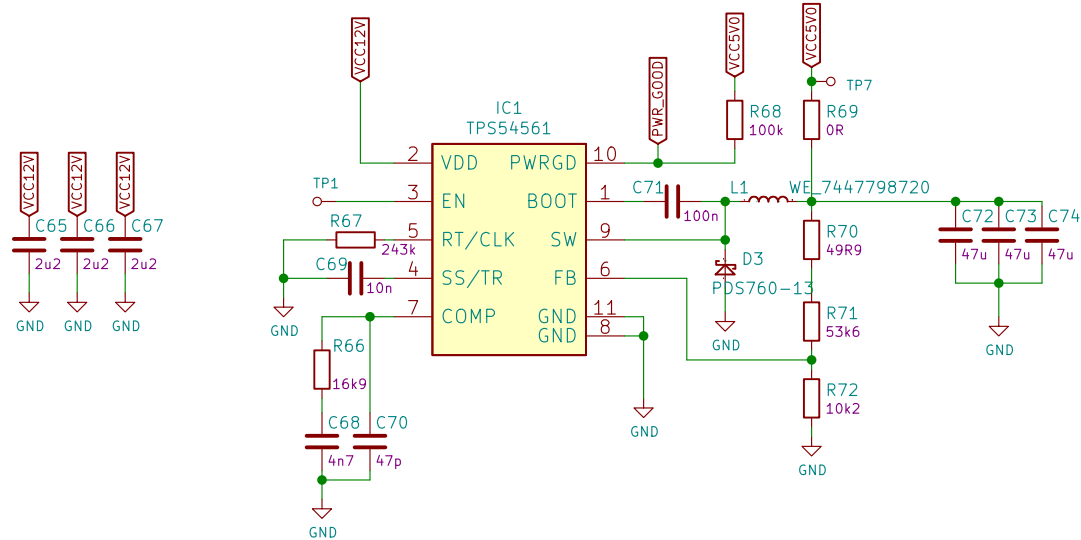
DDR3



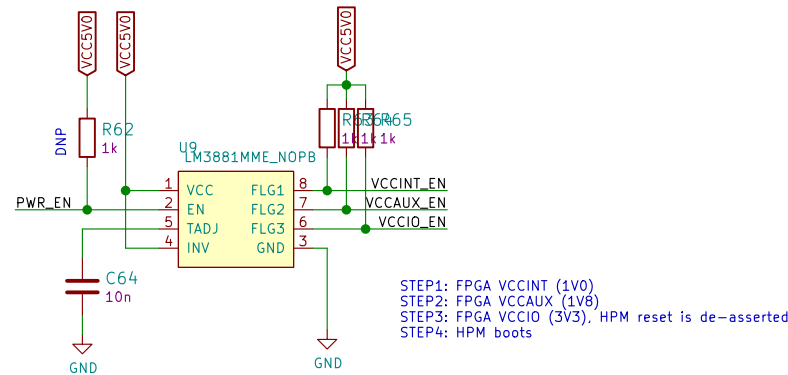
External 12V supply



MainSupply (5V 5A)

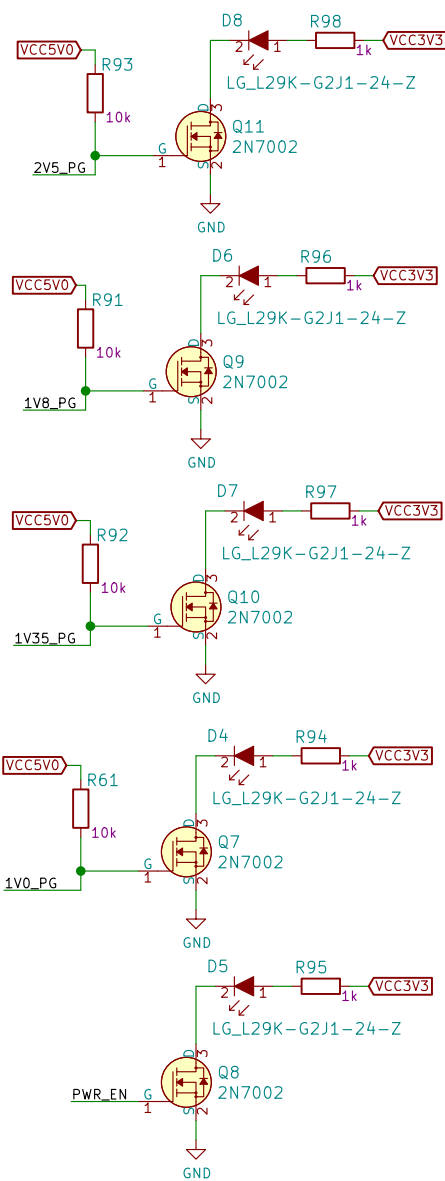


Power sequencer

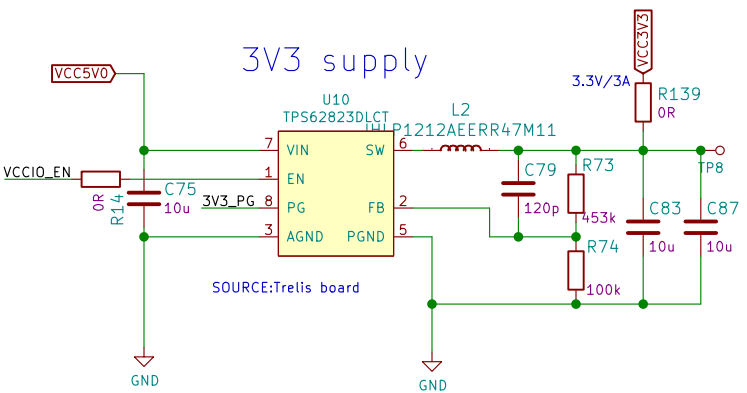


STEP1: FPGA VCCINT (1V0)  
STEP2: FPGA VCCAUX (1V8)  
STEP3: FPGA VCCIO (3V3), HPM reset is de-asserted  
STEP4: HPM boots

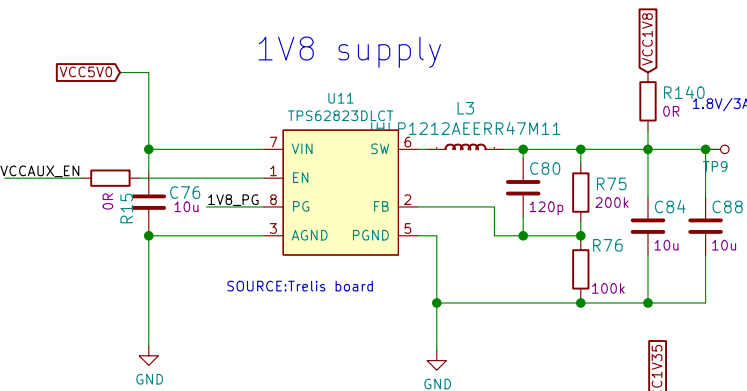
PWR\_LED Indicators



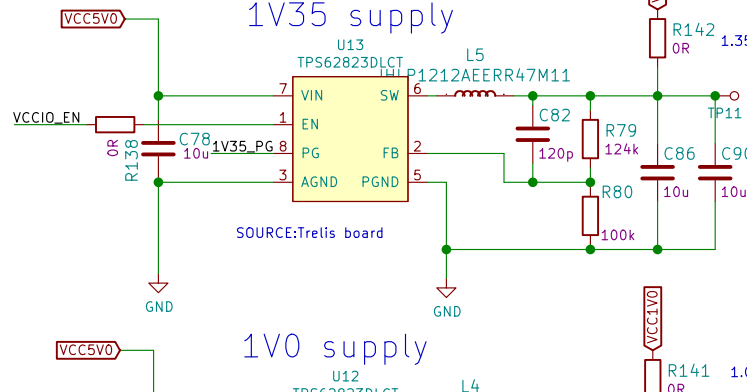
3V3 supply



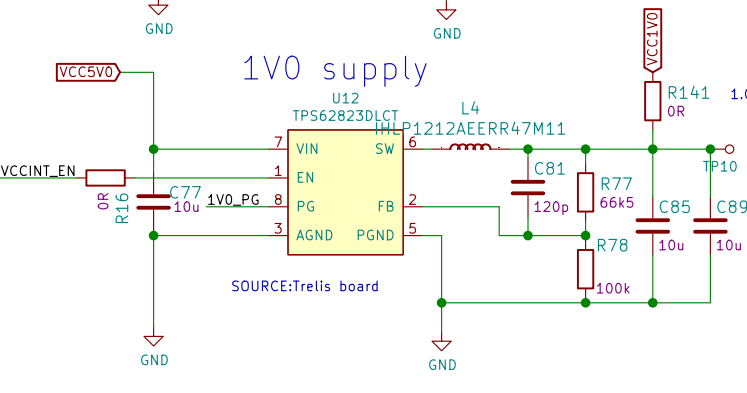
1V8 supply



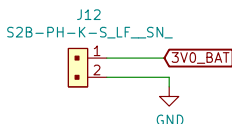
1V35 supply

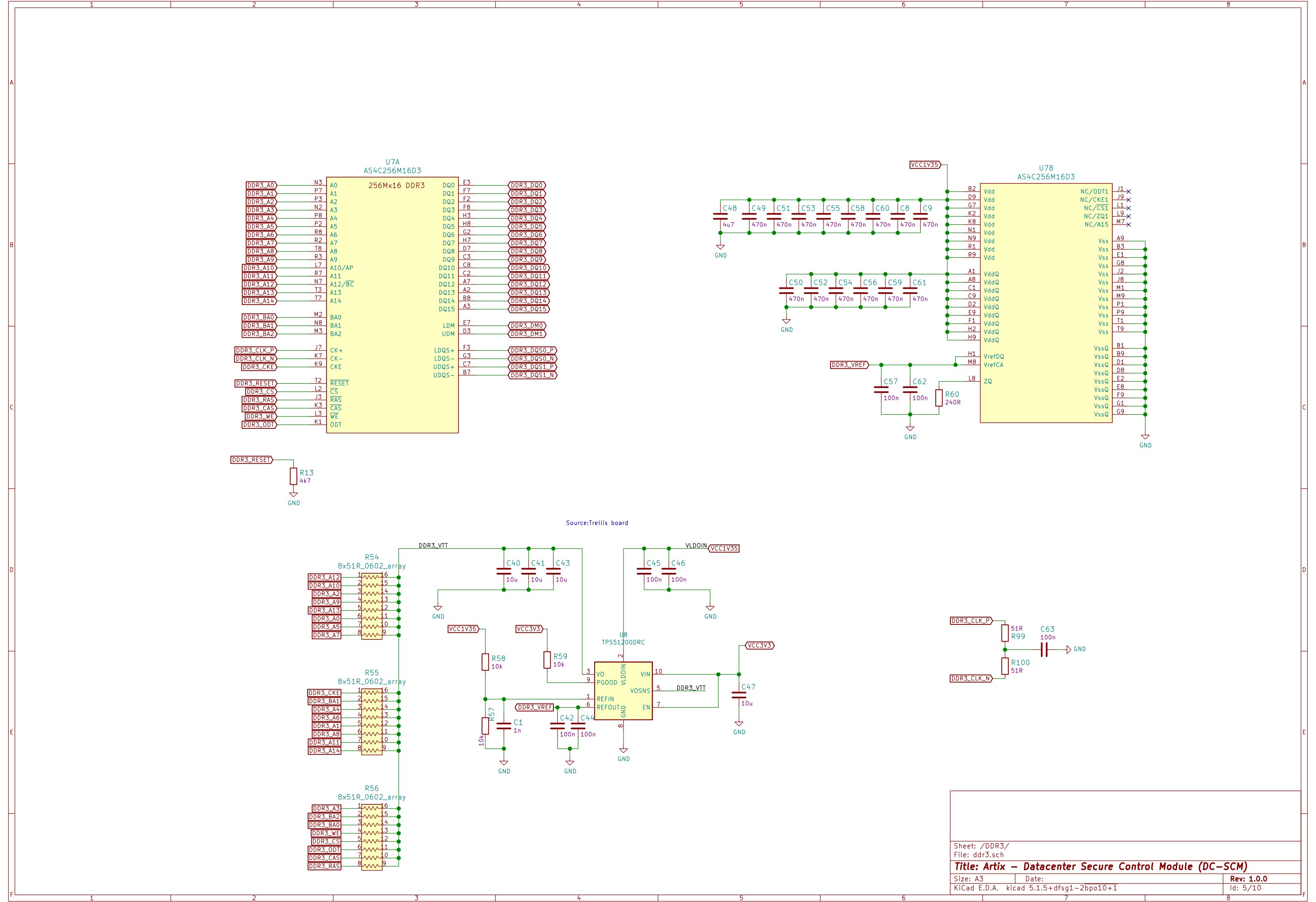


1V0 supply



Battery connector

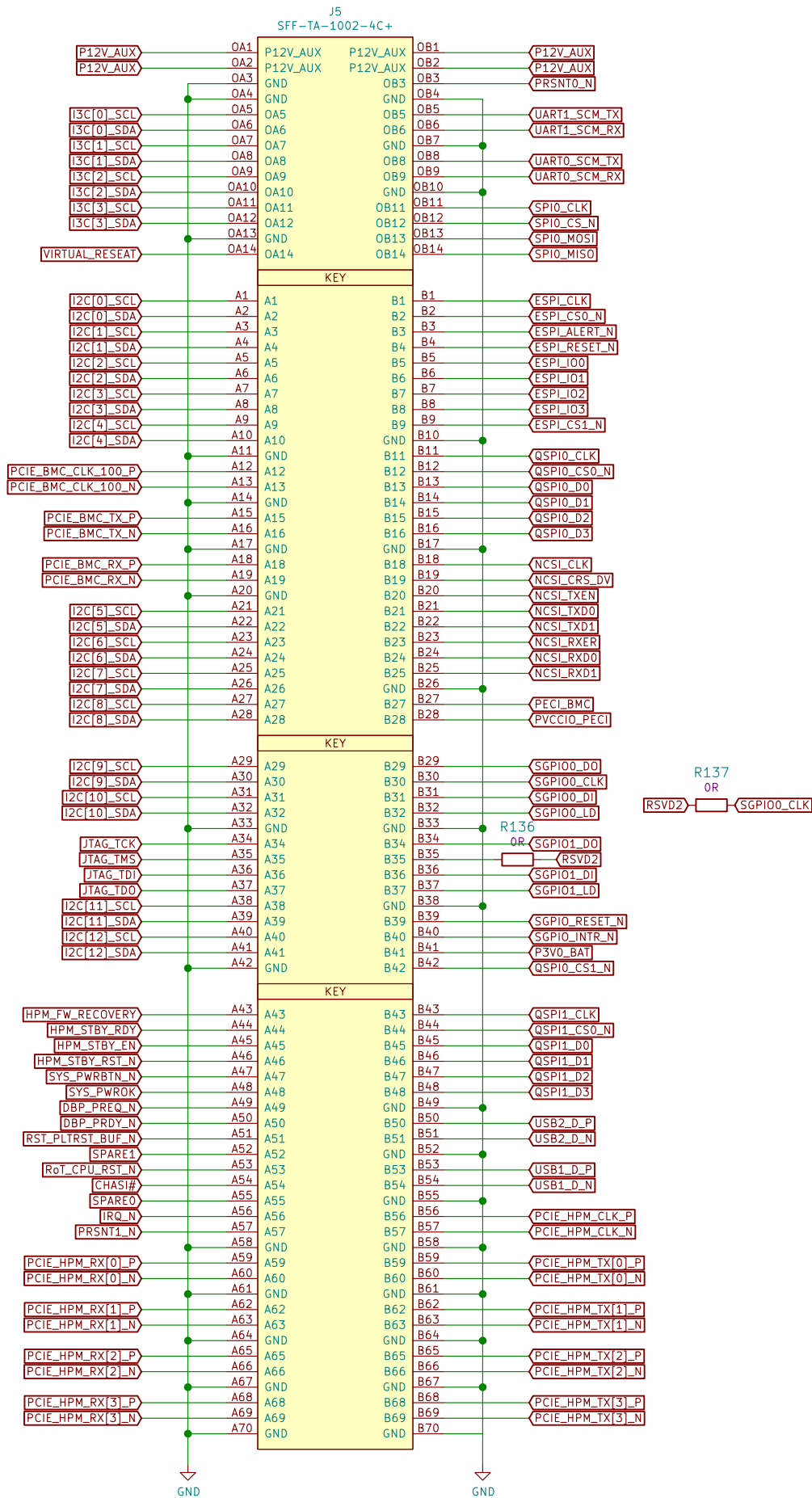






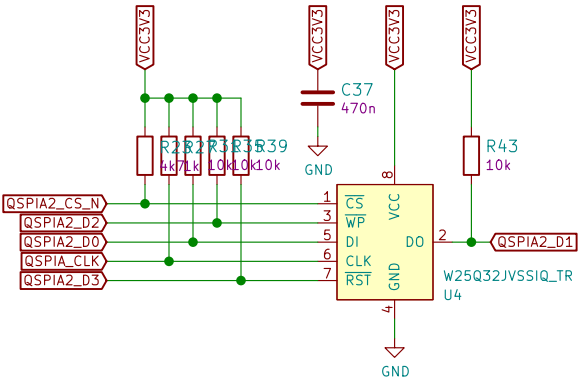
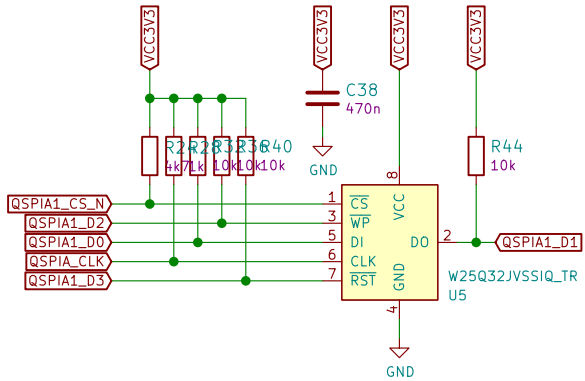


Edge connector



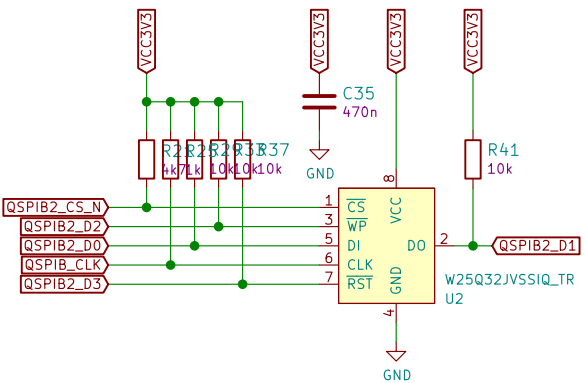
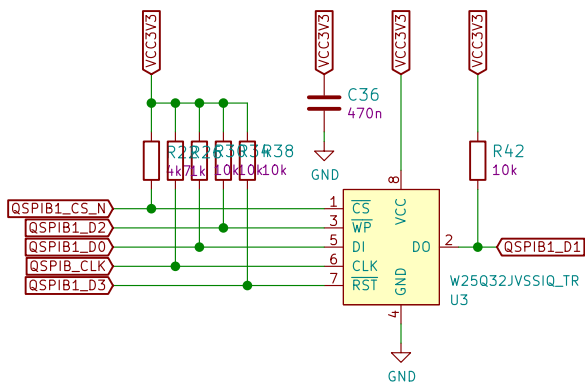
BIOS flash

One or typically two flash devices used to contain the BIOS firmware image

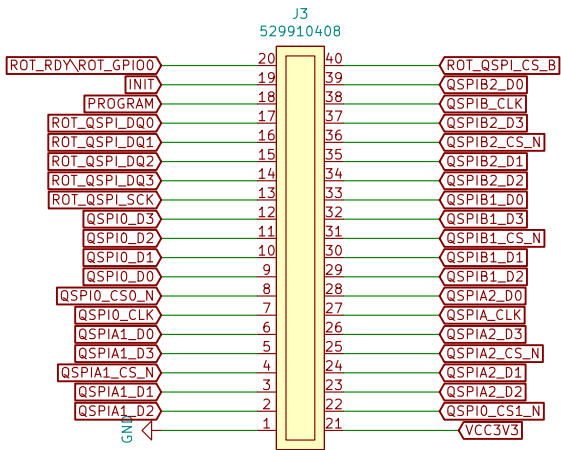


BMC flash

One or typically two flash devices used to contain the BMC firmware image

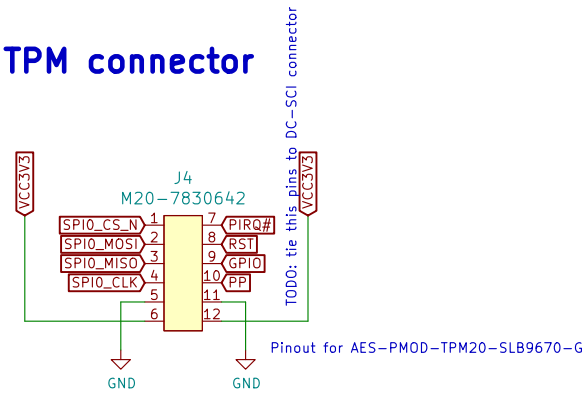


RoT module connector



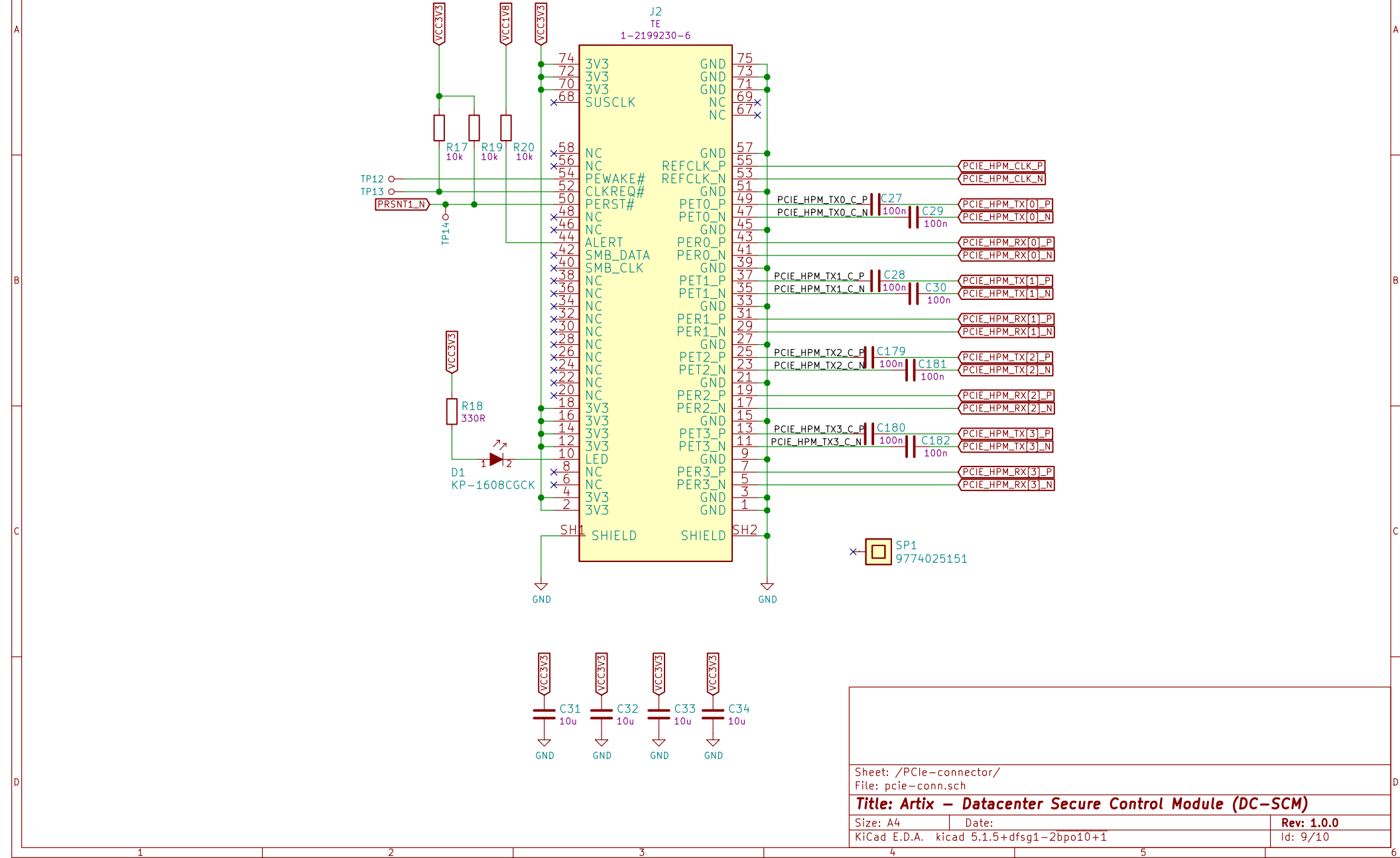
preliminary

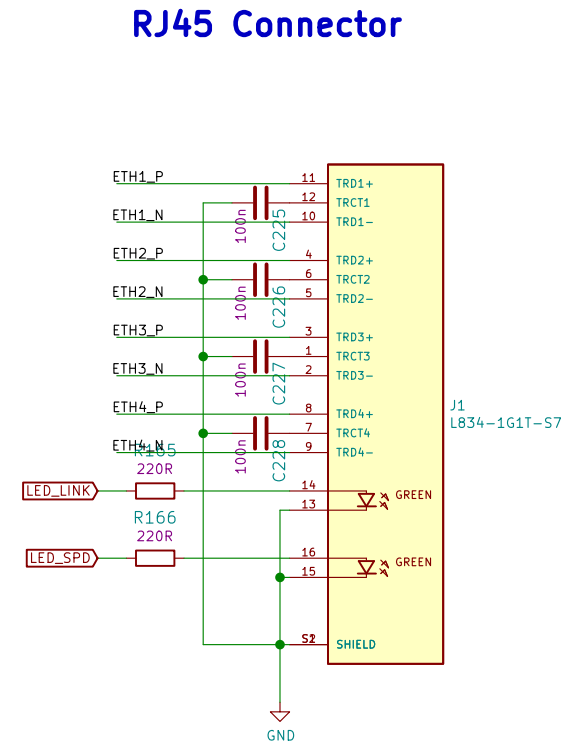
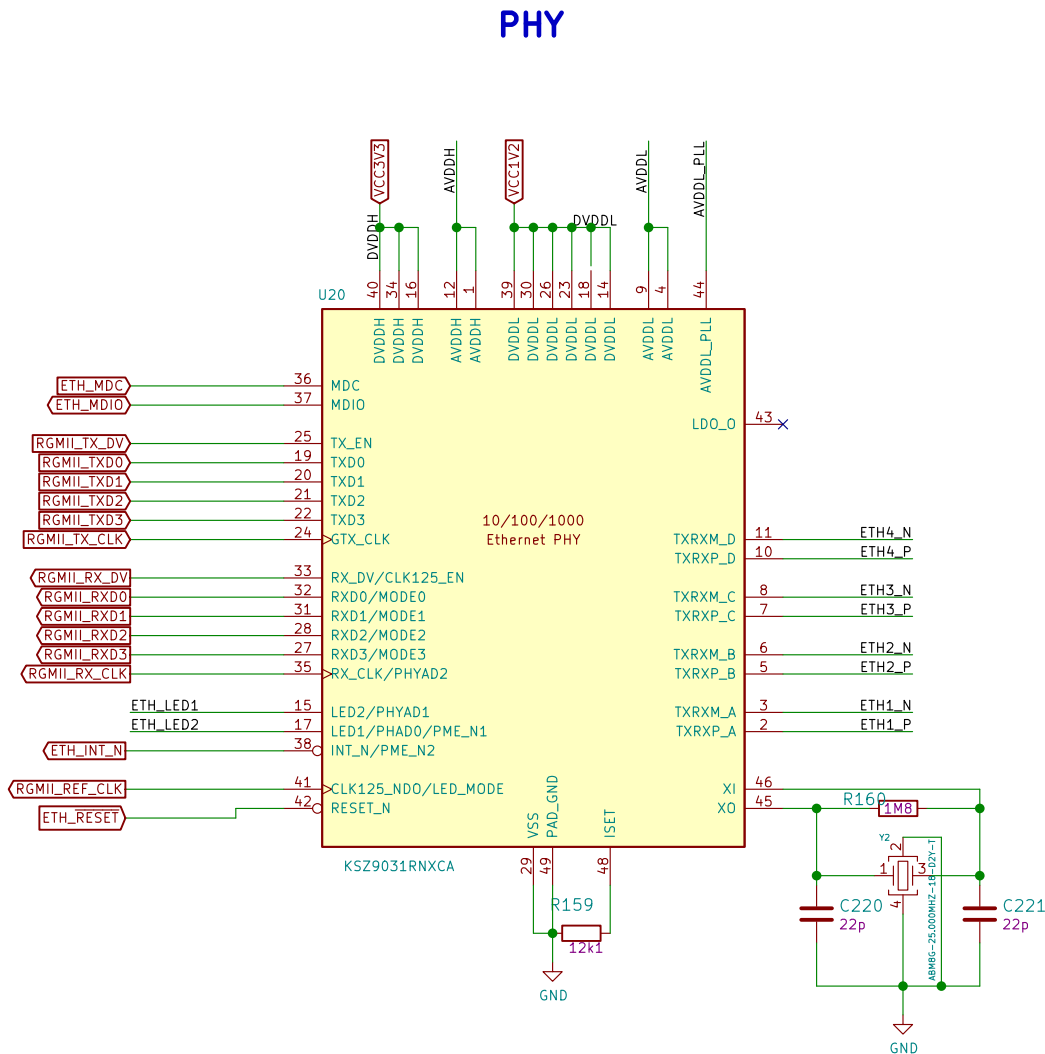
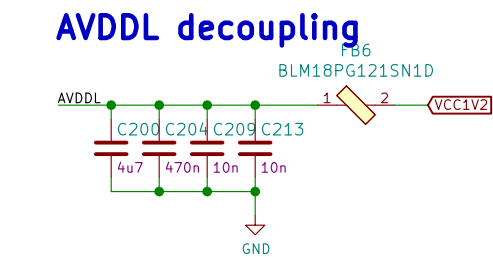
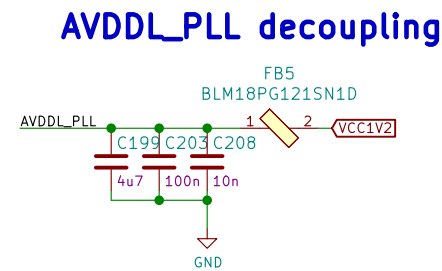
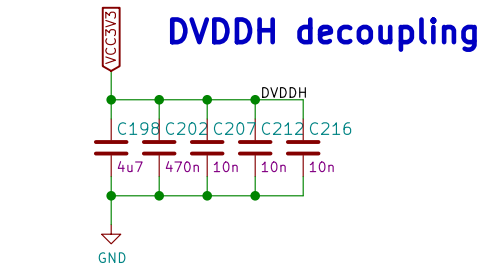
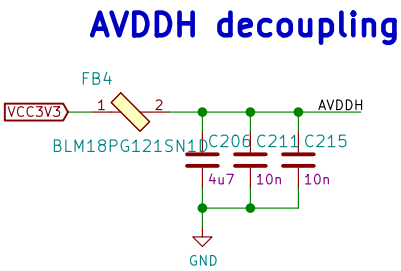
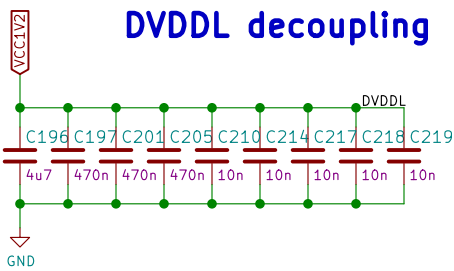
TPM connector



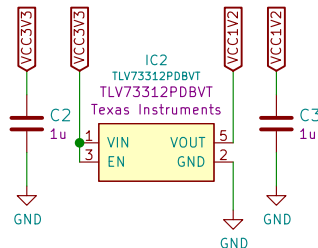


NVMe SSD





### 1V2 LDO



### Pull up resistors

