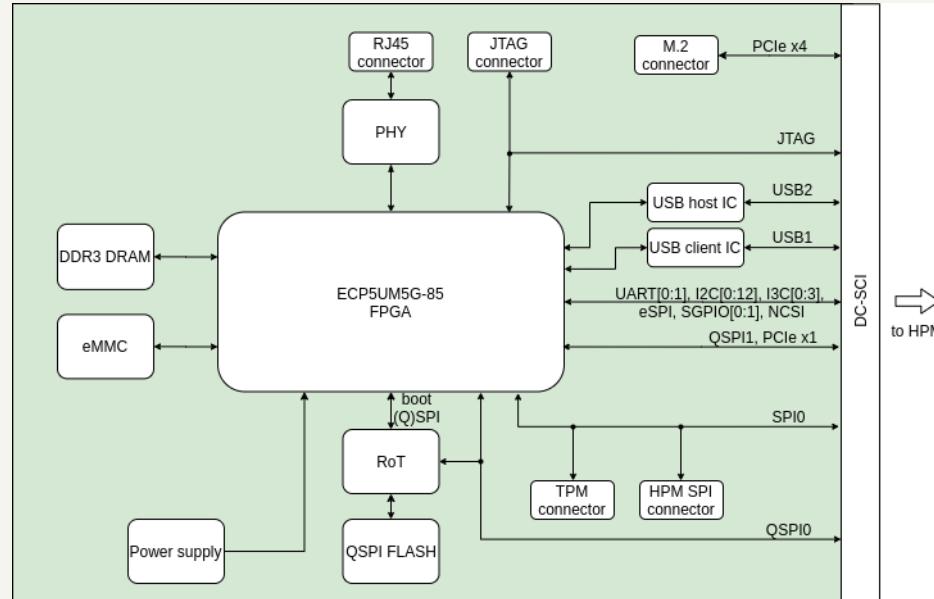


ECP5 – Datacenter Secure Control Module (DC-SCM)



A

A

B

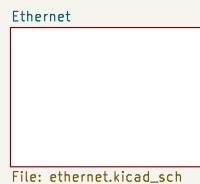
B

C

C

D

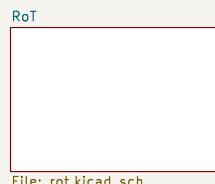
D



Ethernet



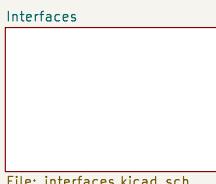
PCIe-connector



RoT



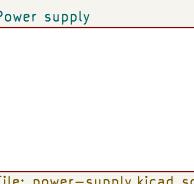
Edge connector



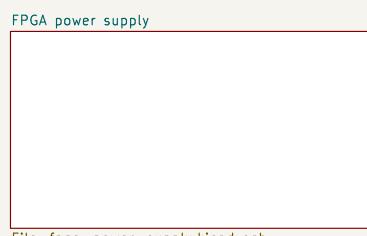
Interfaces



DDR3



Power supply



FPGA power supply



FPGA banks

Logo N2
oshw_logo
N1
Logo antmicro_logo

Sheet: /	
File: ecp5-dc-scm.kicad_sch	
Title: ECP5 – Datacenter Secure Control Module (DC-SCM)	
Size: A4	Date: 2024-07-15
KiCad E.D.A. kicad-cliv 7.0.11	Rev: 1.2.1:ced89
	Id: 1/10

A

A

B

B

C

C

D

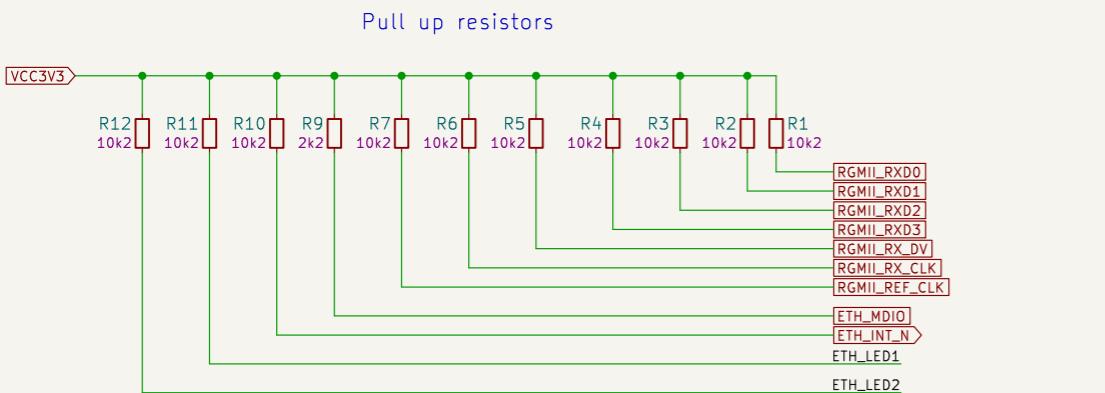
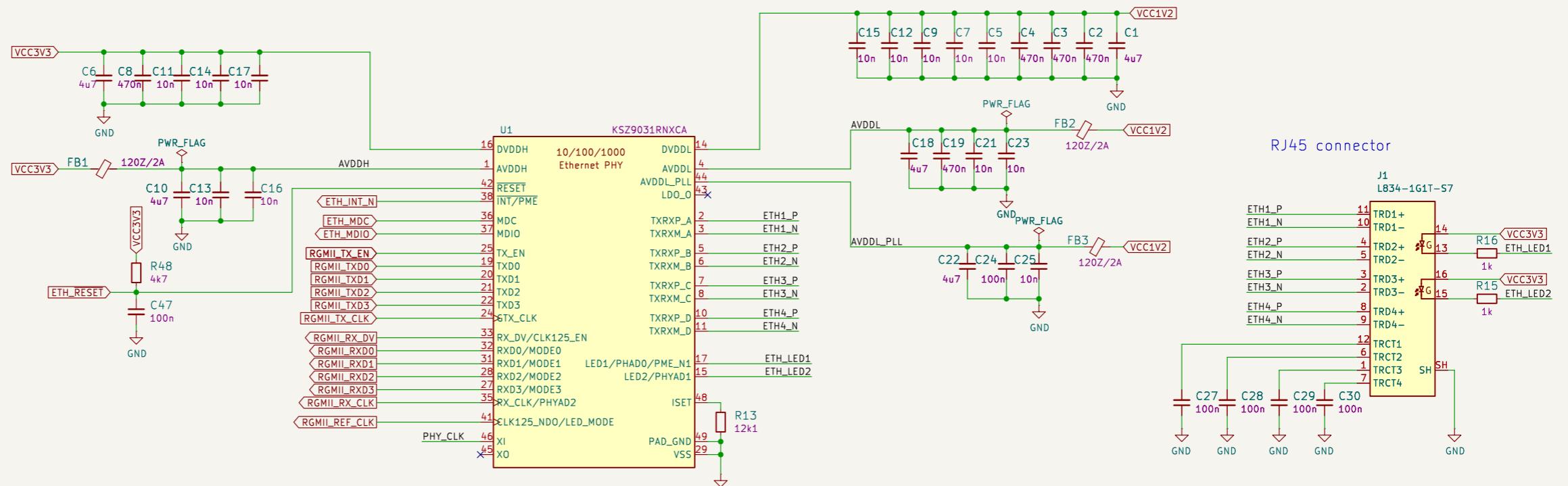
D

E

E

F

F

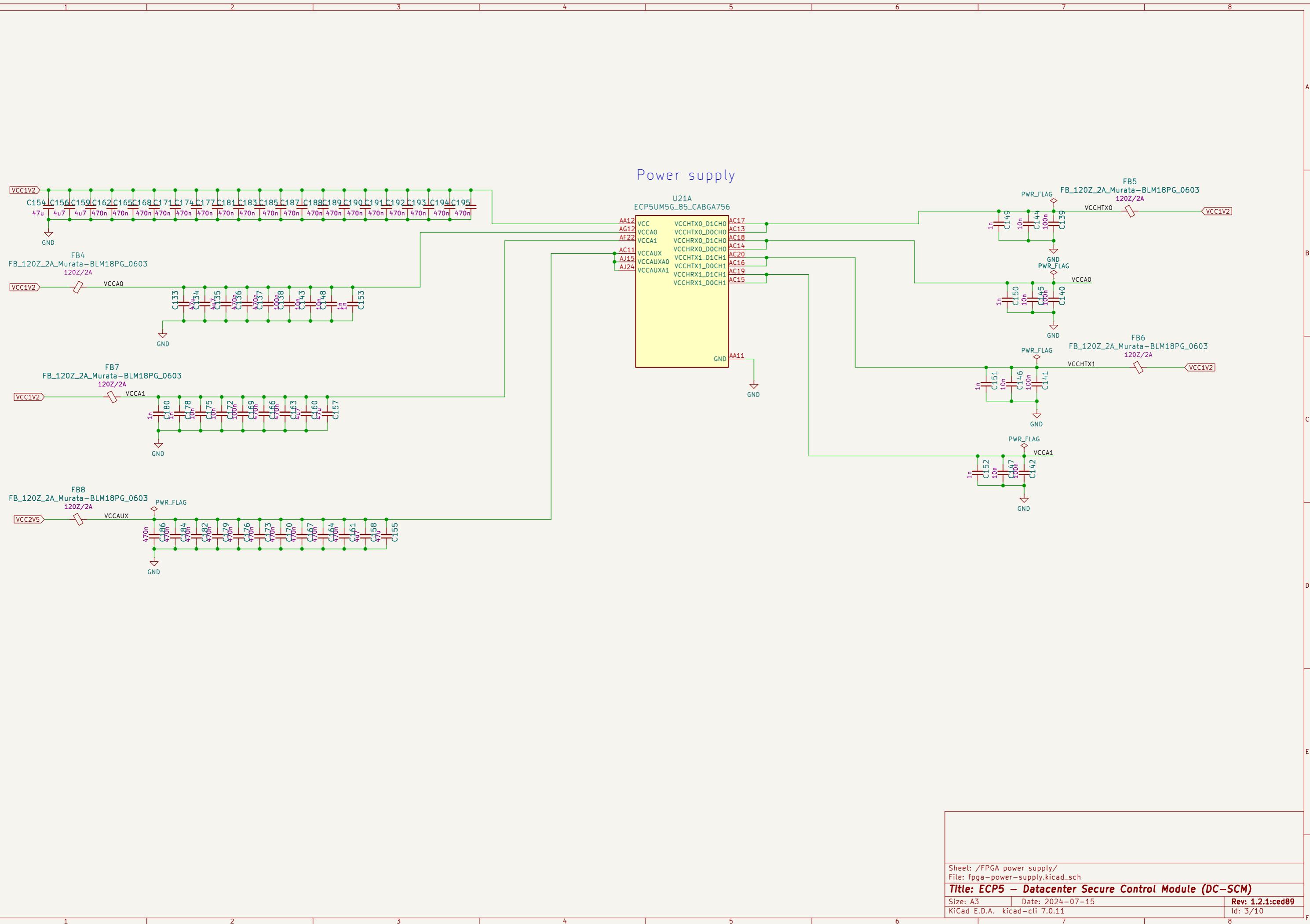


Sheet: /Ethernet/
File: ethernet.kicad_sch

Title: ECP5 – Datacenter Secure Control Module (DC-SCM)

Size: A3 Date: 2024-07-15
KiCad E.D.A. kicad-cl 7.0.11

Rev: 1.2.1:cdb89
Id: 2/10



A

B

C

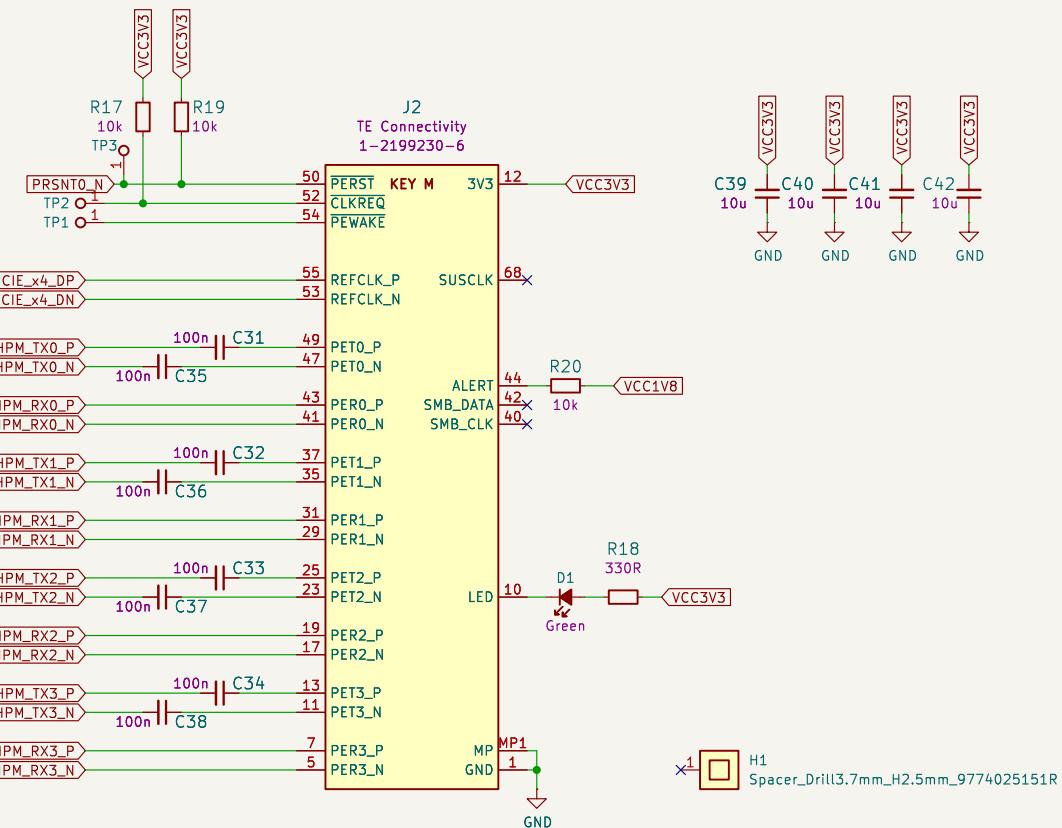
D

A

B

C

D



Sheet: /PCIe-connector/
File: pcie-conn.kicad_sch

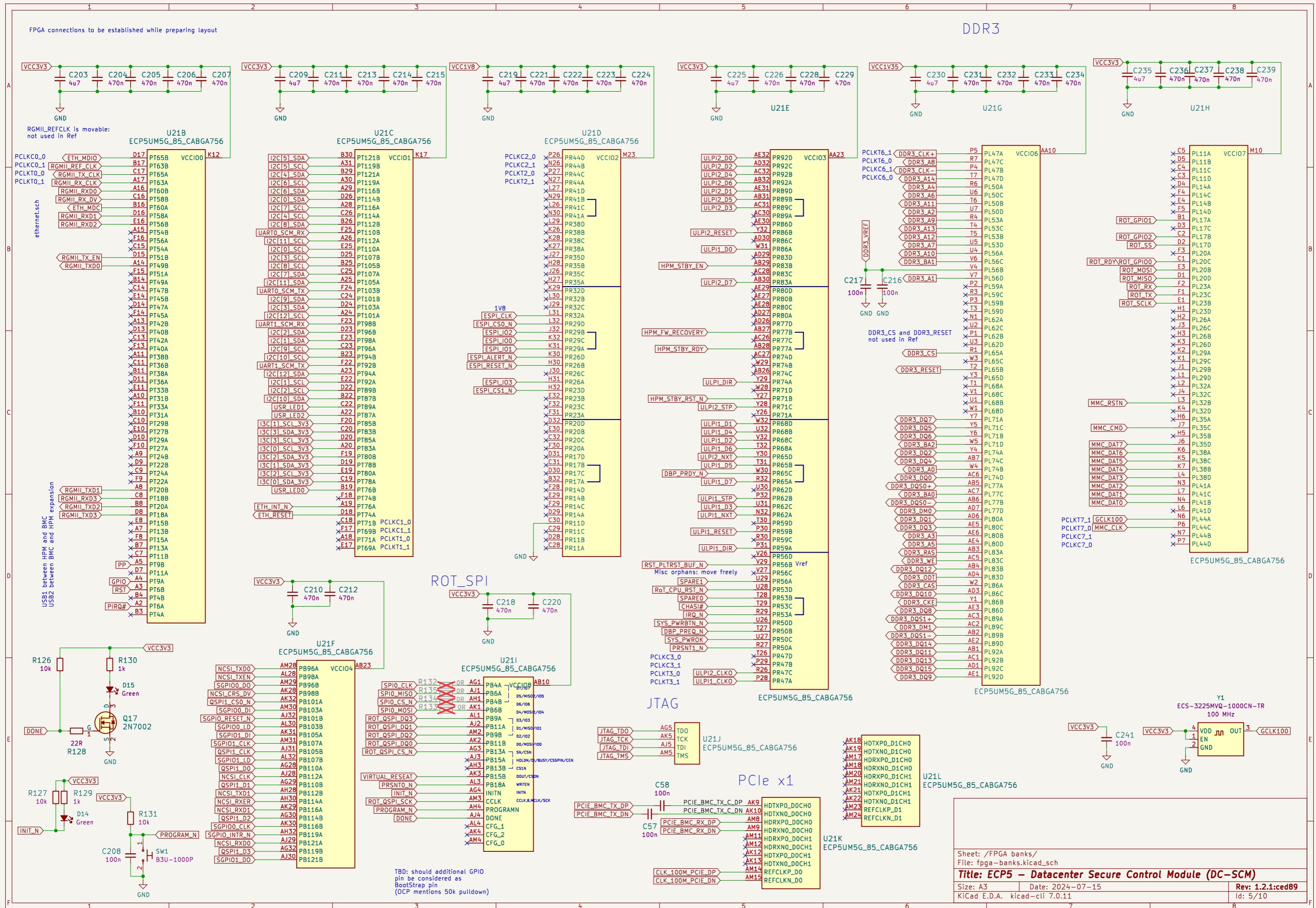
Title: ECP5 – Datacenter Secure Control Module (DC-SCM)

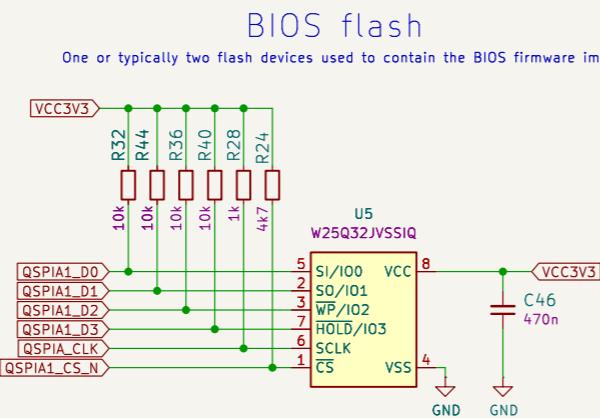
Size: A4 Date: 2024-07-15

KiCad E.D.A. kicad-cli 7.0.11

Rev: 1.2.1:cfd89

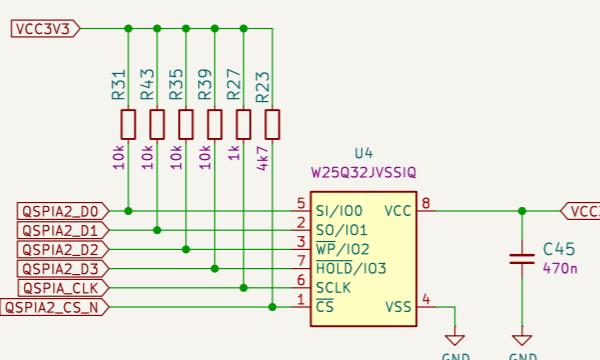
Id: 4/10





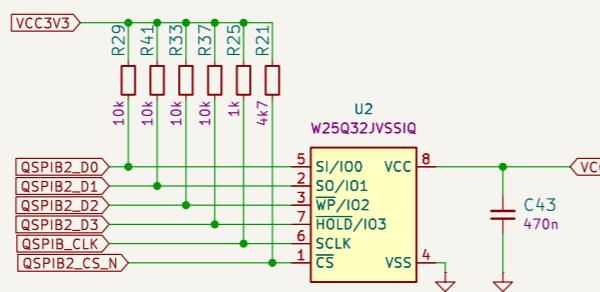
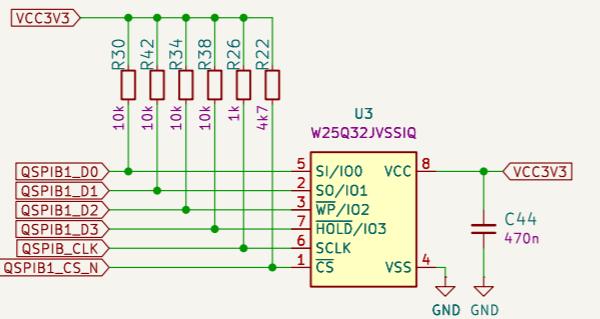
BIOS flash

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



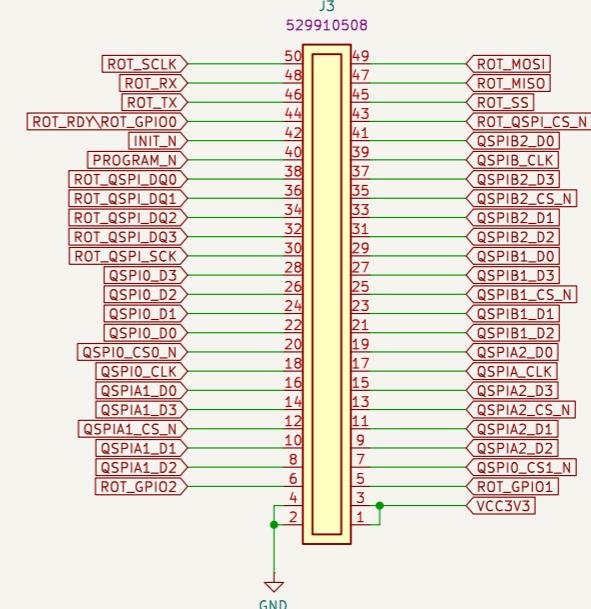
BMC flash

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



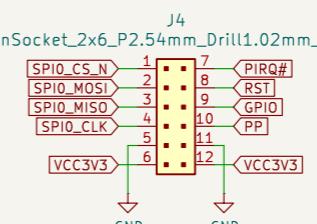
RoT connector

preliminary



TPM connector

Pinout for AES-PMOD-TPM20-SLB9670-G



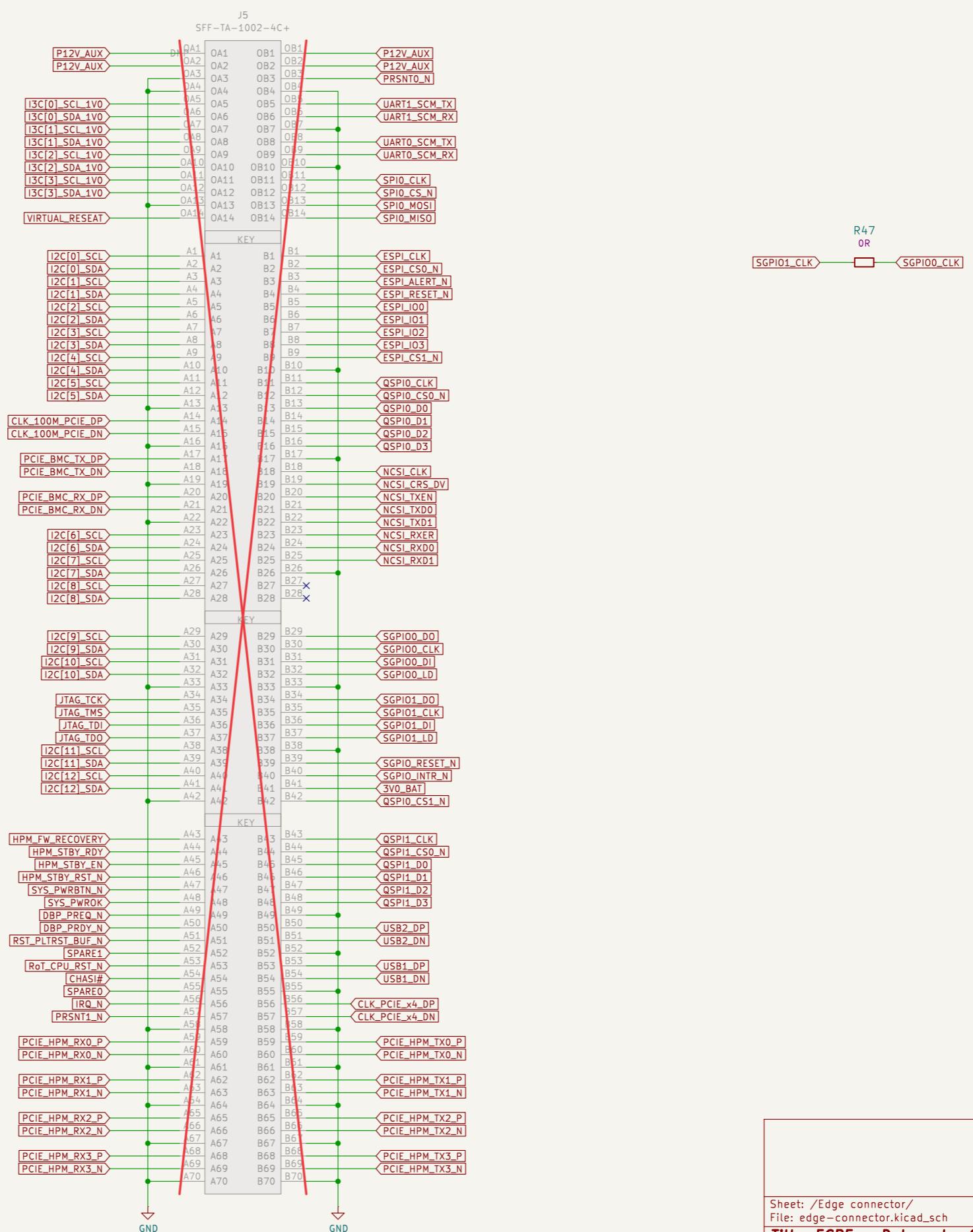
Sheet: /RoT/
File: rot.kicad_sch

Title: ECP5 – Datacenter Secure Control Module (DC-SCM)

Size: A3 Date: 2024-07-15
KiCad E.D.A. kicad-cli 7.0.11

Rev: 1.2.1:ced89
Id: 6/10

Edge connector



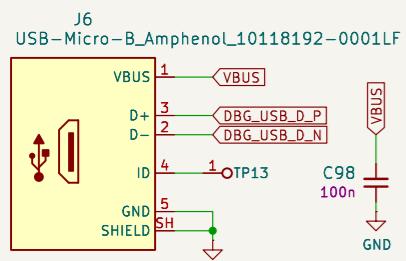
Sheet: /Edge connector/
File: edge-connector.kicad_sch

Title: ECP5 – Datacenter Secure Control Module (DC-SCM)

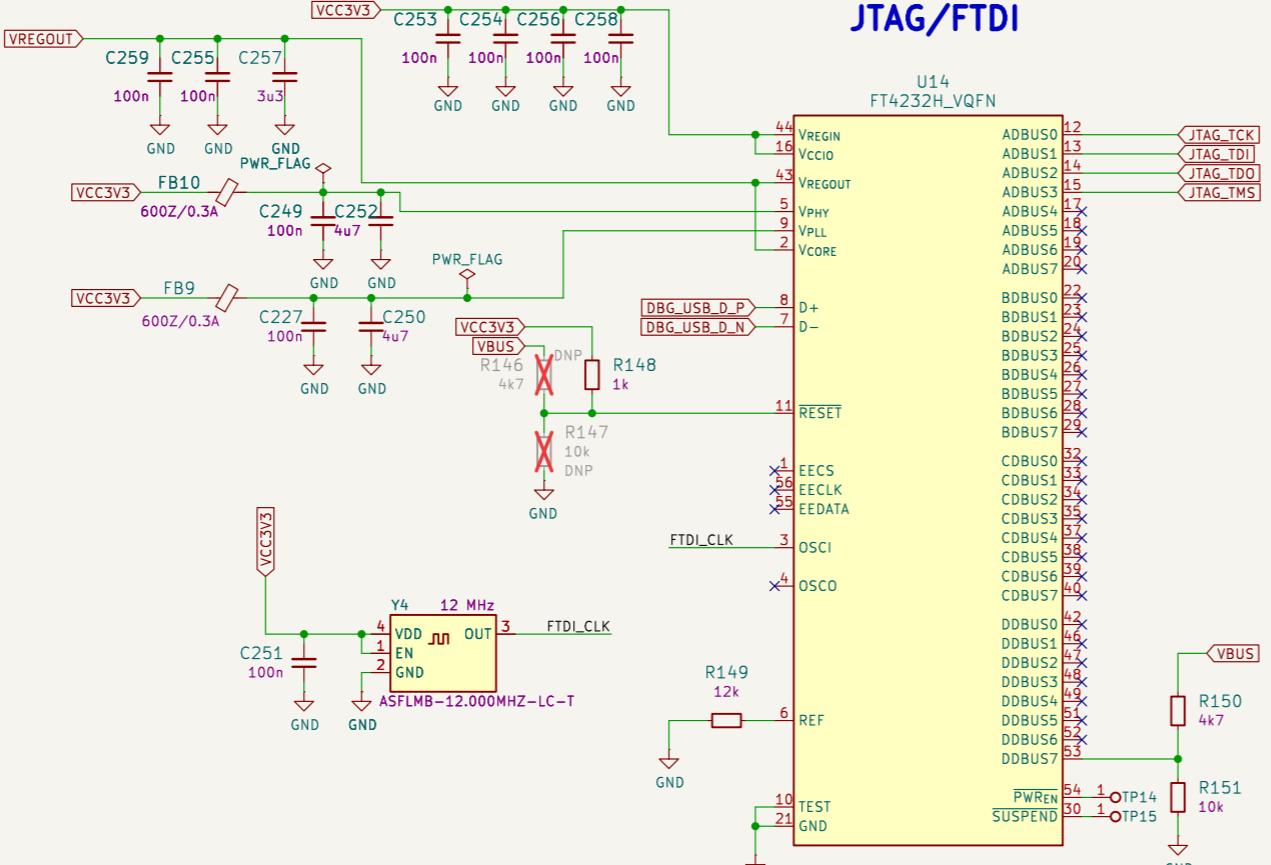
Size: A3 Date: 2024-07-15
KiCad E.D.A. kicad-cl 7.0.11

Rev: 1.2.1:c6d89
Id: 7/10

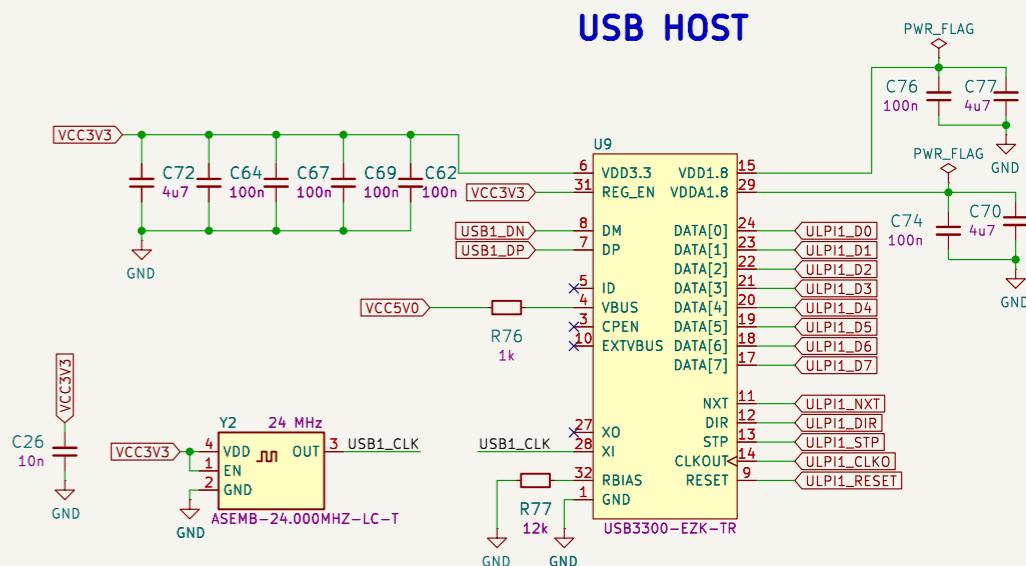
Debug USB



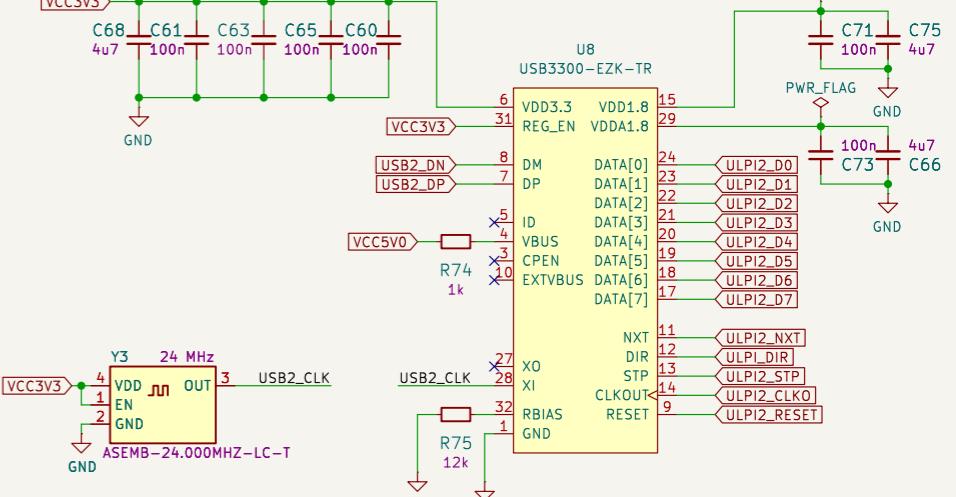
JTAG/FTDI



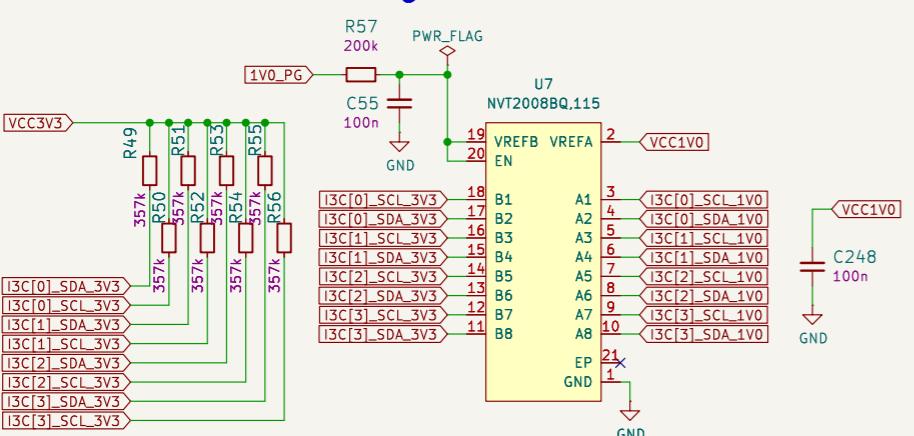
USB HOST



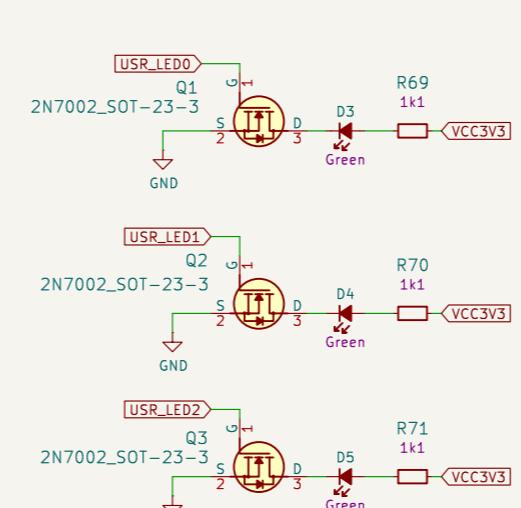
USB Client



I2C voltage level translation



USER LEDs

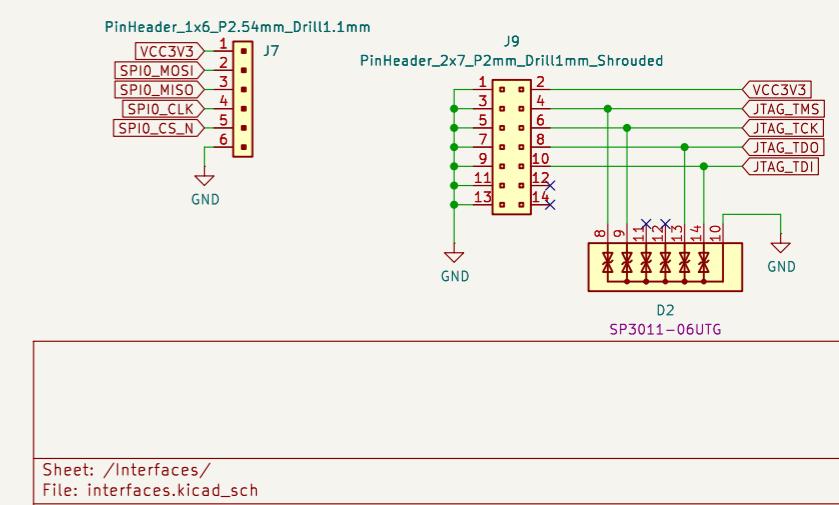


HPM SPI

reserved for future use (as of DC-SCI OPC specification)



JTAG connector



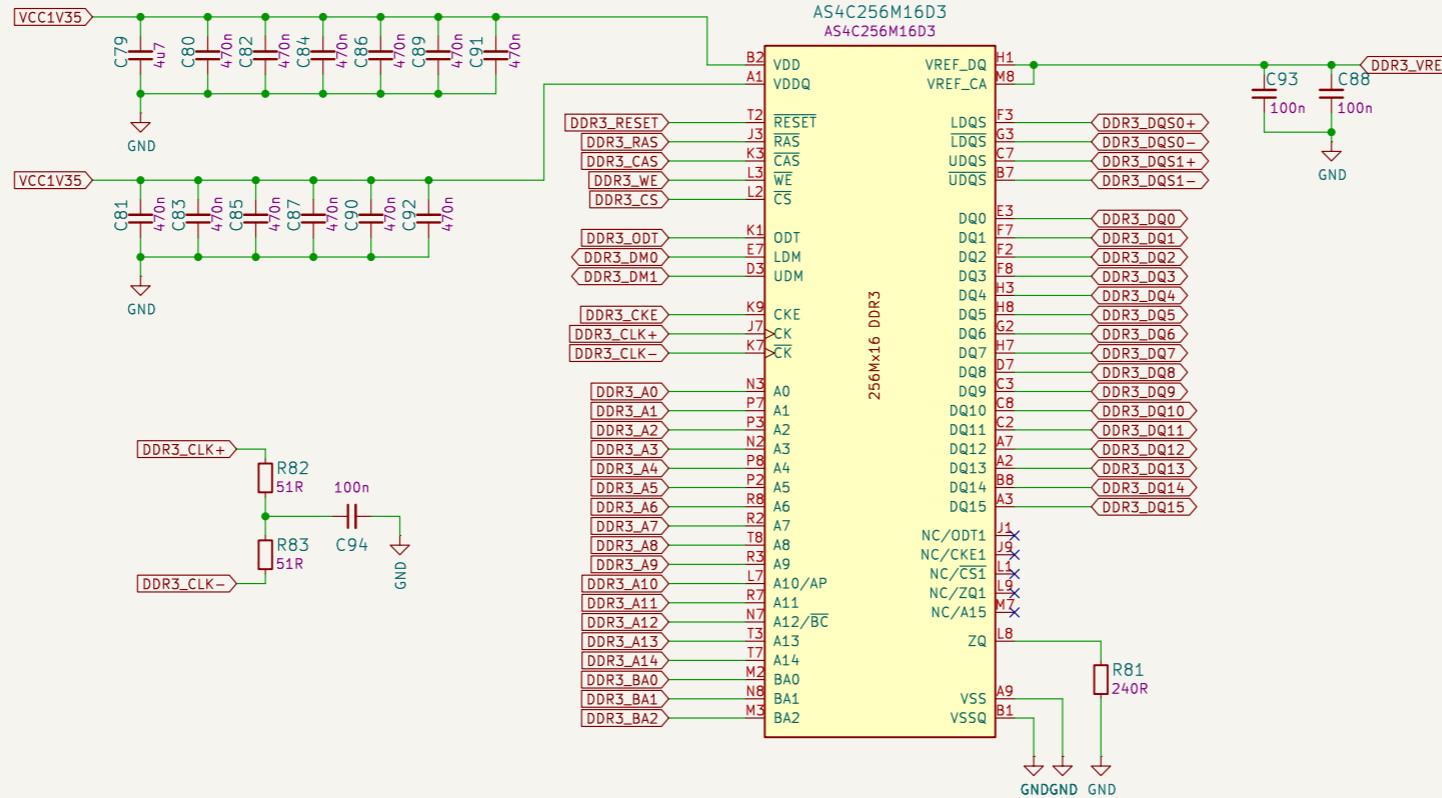
Sheet: /Interfaces/
File: interfaces.kicad_sch

Title: ECP5 – Datacenter Secure Control Module (DC-SCM)

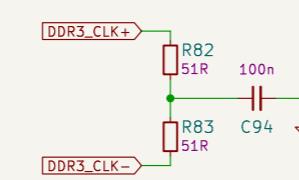
Size: A3 Date: 2024-07-15
KiCad E.D.A. kicad-cl 7.0.11

Rev: 1.2.1:c6d89
Id: 8/10

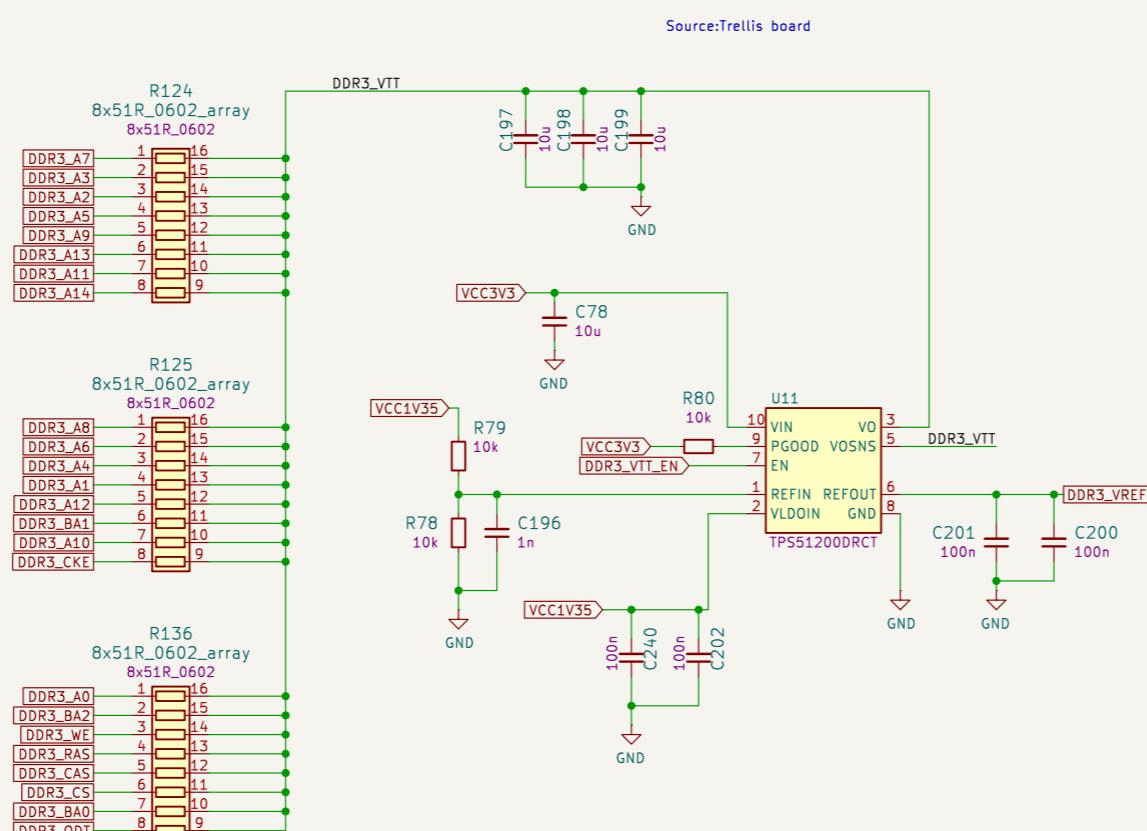
A



B



C



D

E

F

Sheet: /DDR3/
File: ddr3.kicad_sch

Title: ECP5 – Datacenter Secure Control Module (DC-SCM)

Size: A3 Date: 2024-07-15
KiCad E.D.A. kicad-cl 7.0.11

Rev: 1.2.1:c6d89
Id: 9/10

