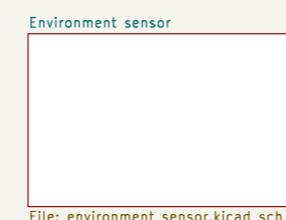
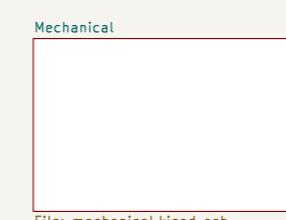
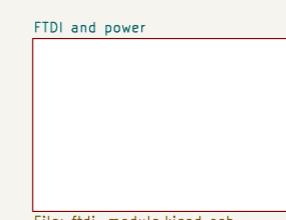
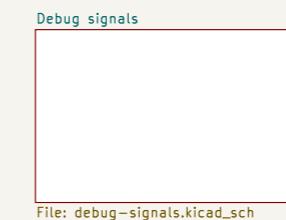
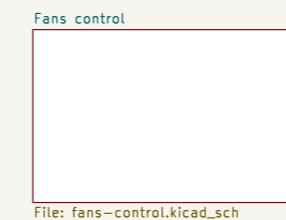
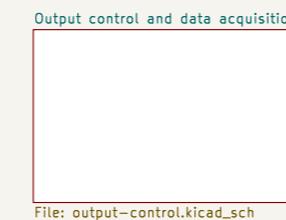
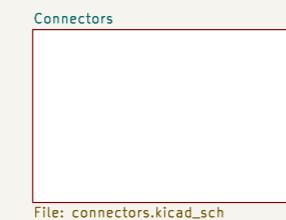
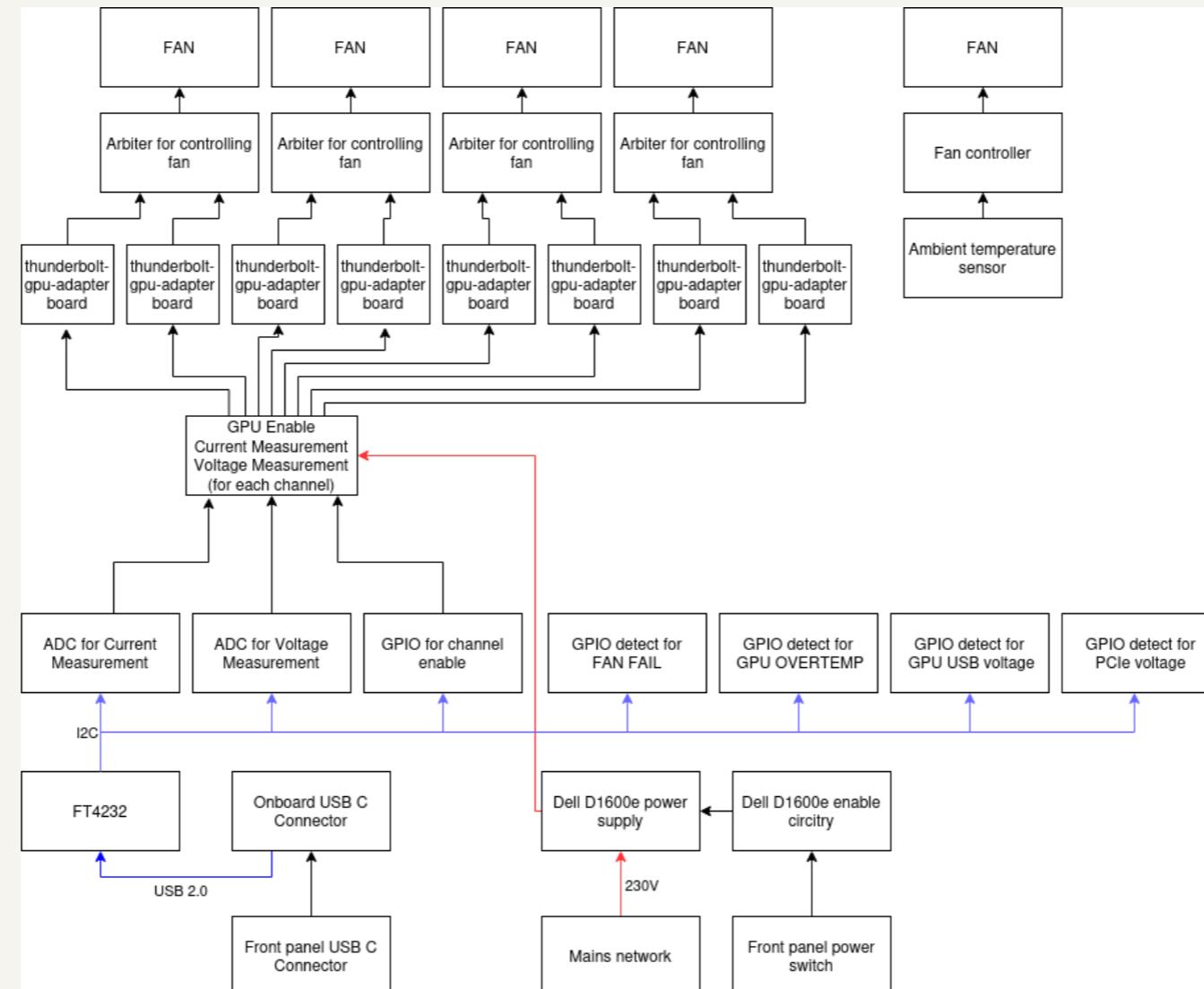


GPU Cluster Backplane



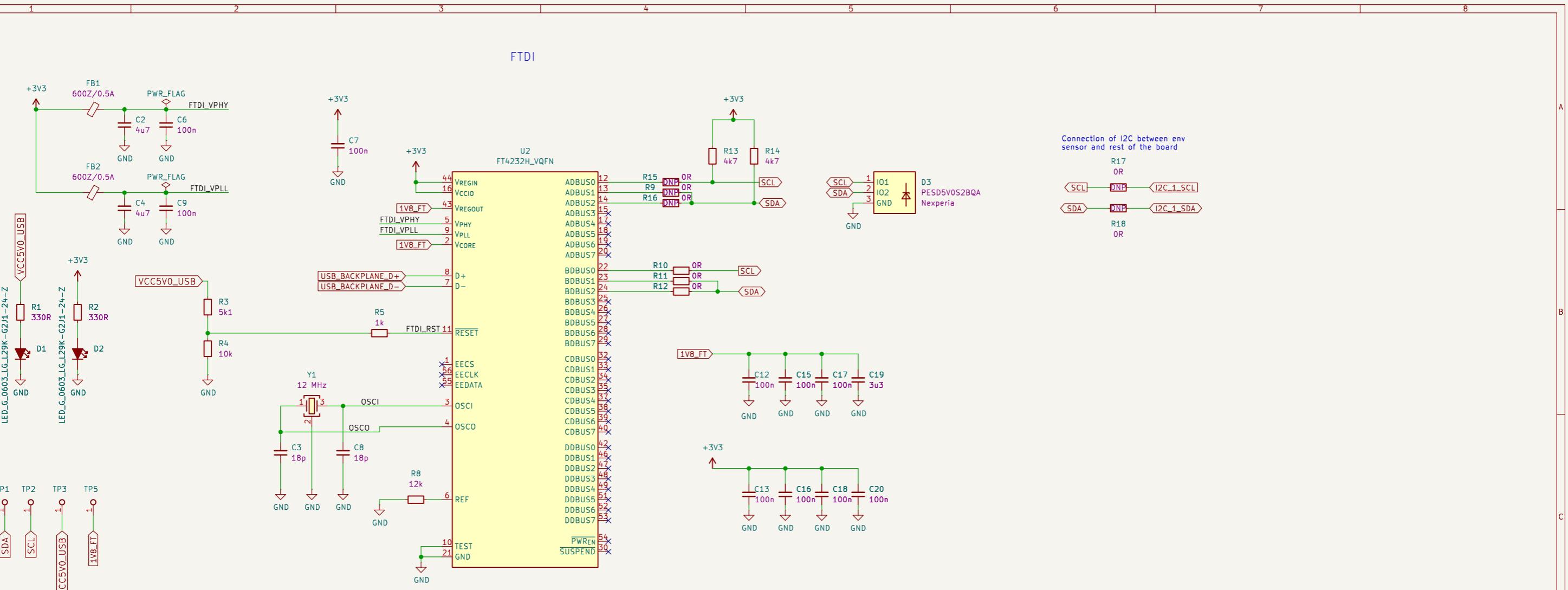
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Sheet: / File: gpu-cluster-backplane.kicad_sch

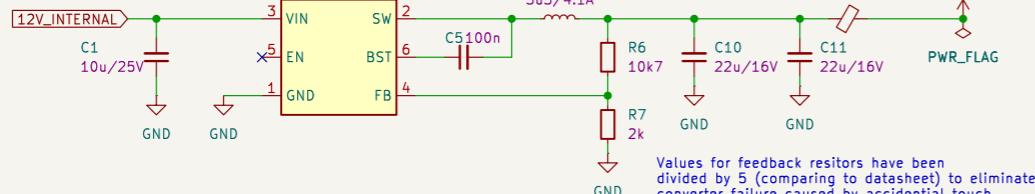
Title: GPU Cluster Backplane

Size: A3 Date: 2023-11-28
KiCad E.D.A. kicad-cli 7.0.10+1

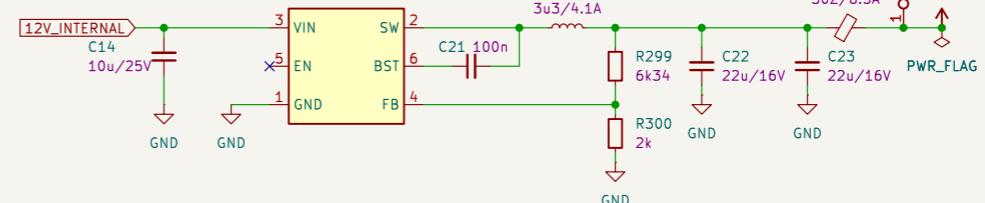
Rev: 1.0.1:a4d90
Id: 1/16



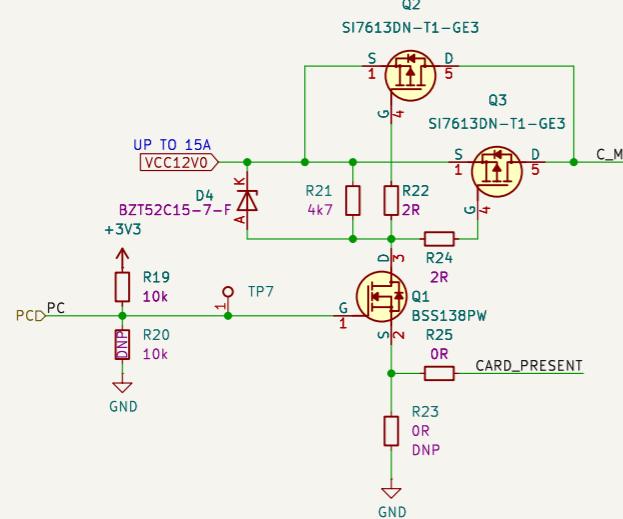
5V0 DC/DC Converter



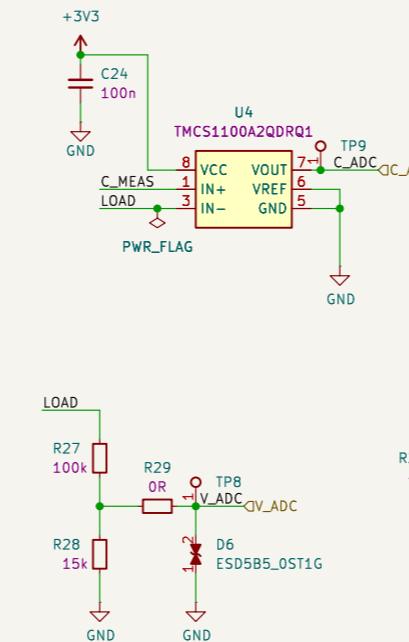
3V3 DC/DC Converter



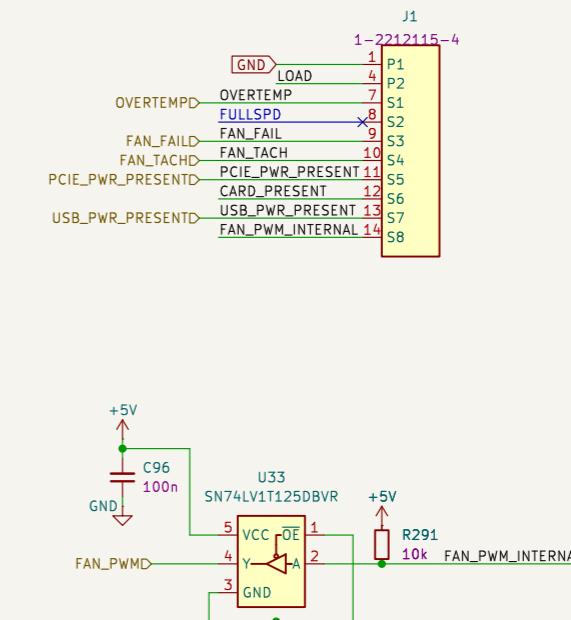
Channel high side switch

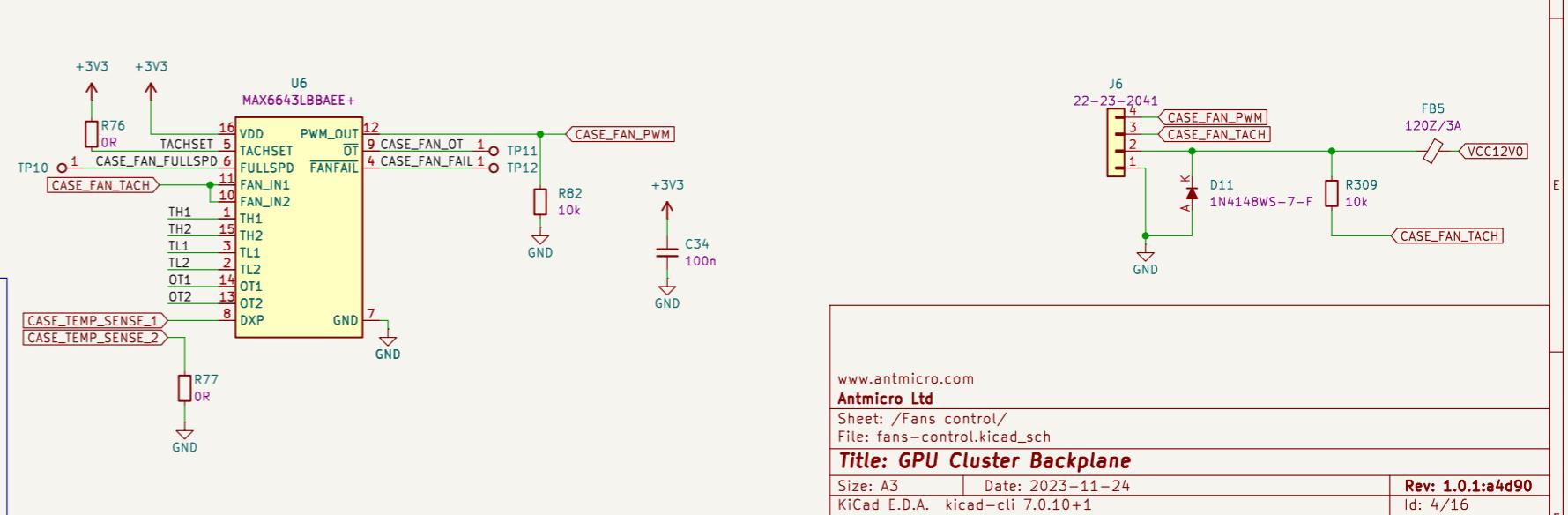
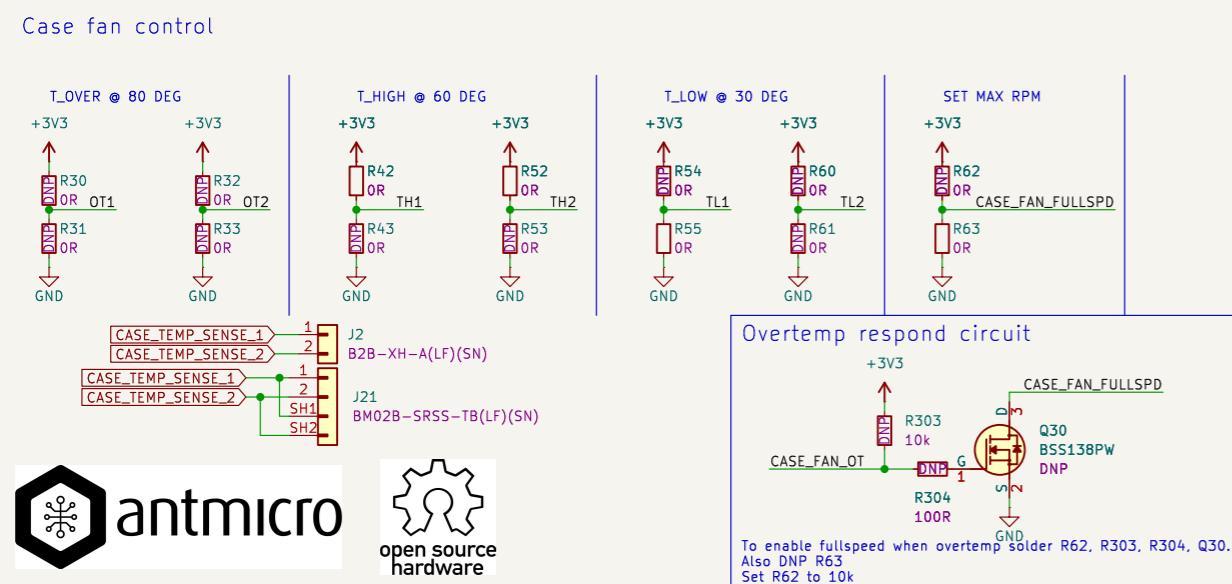
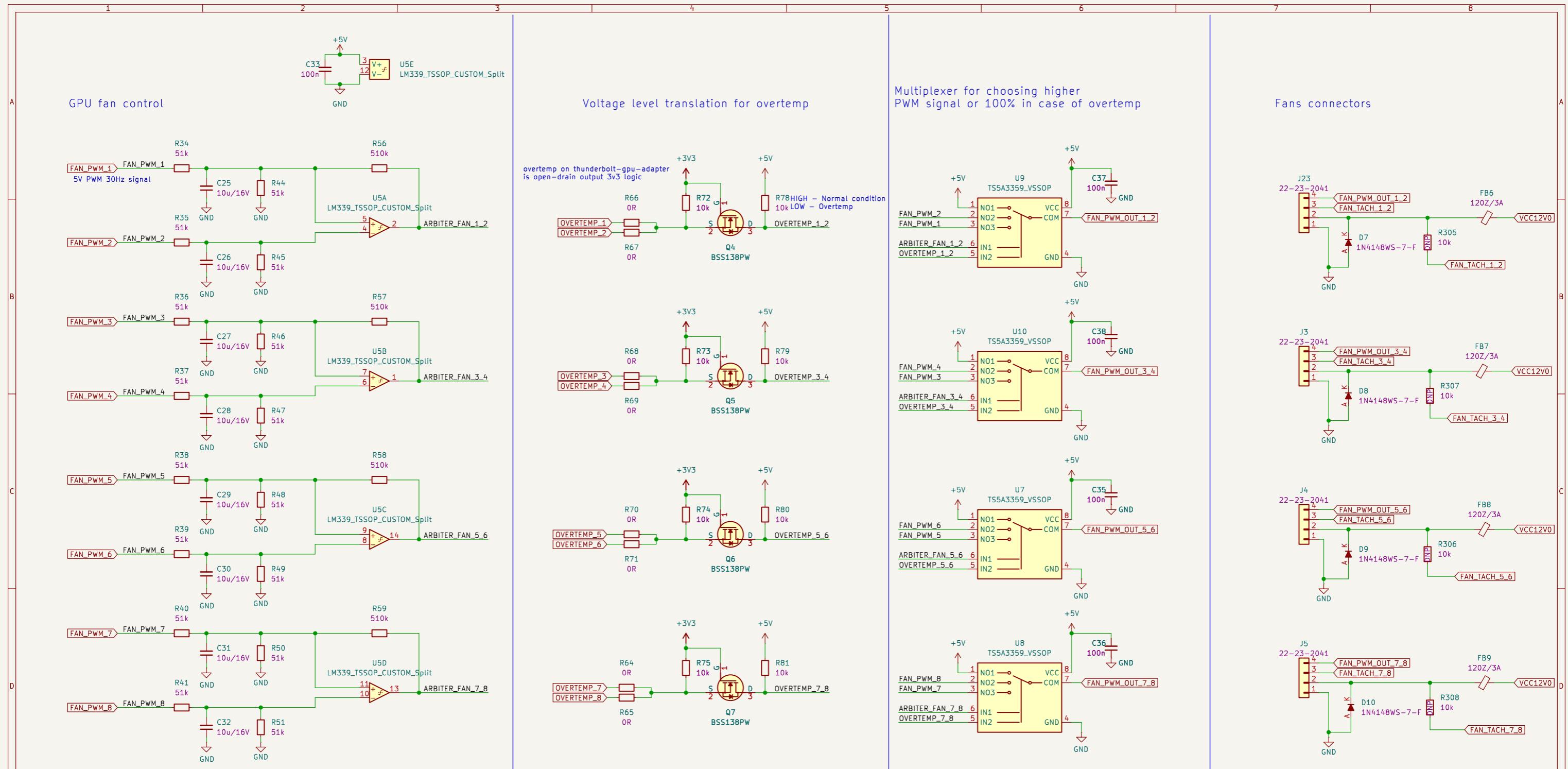


Current and voltage measurement



GPU Adapter connector





A

B

C

D

E

F

A

B

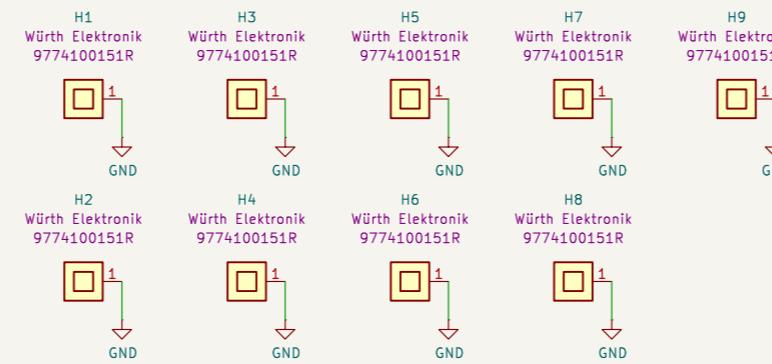
C

D

E

F

Holes for studs


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Sheet: /Mechanical/

File: mechanical.kicad_sch

Title: GPU Cluster Backplane

Size: A3 Date: 2023-11-24

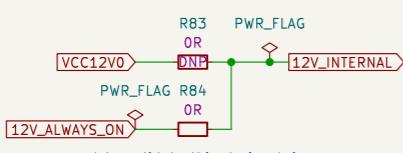
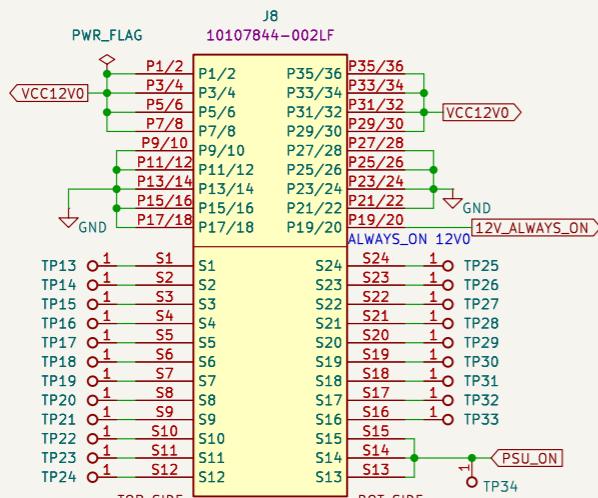
KiCad E.D.A. kicad-cli 7.0.10+1

Rev: 1.0.1:a4d90

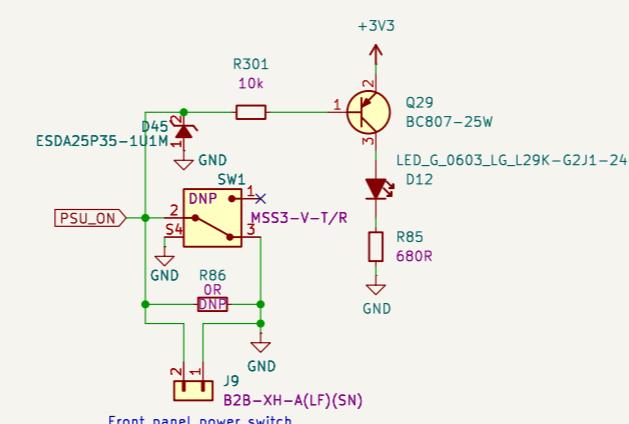
Id: 5/16

A

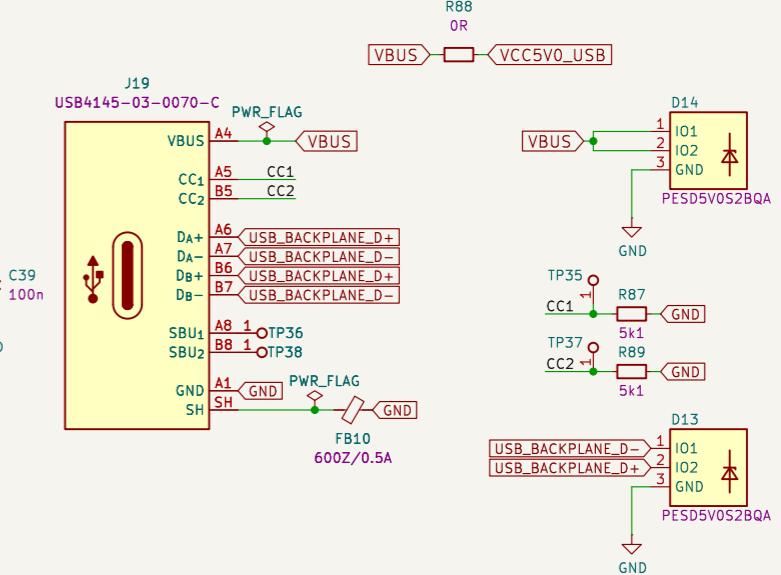
Dell D1600e PSU connector



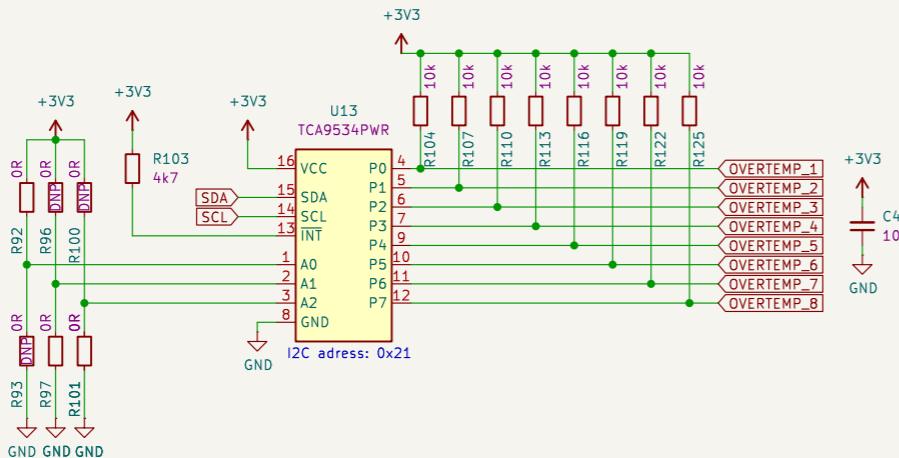
Power switch connector



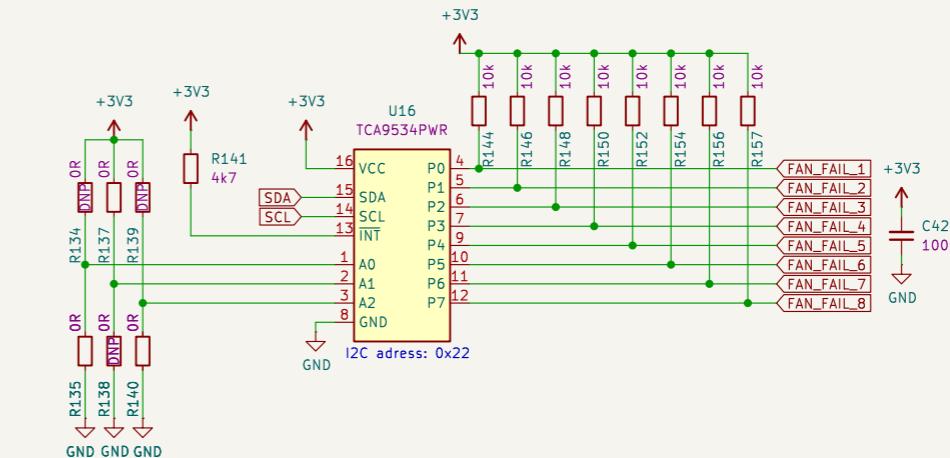
USB C connector



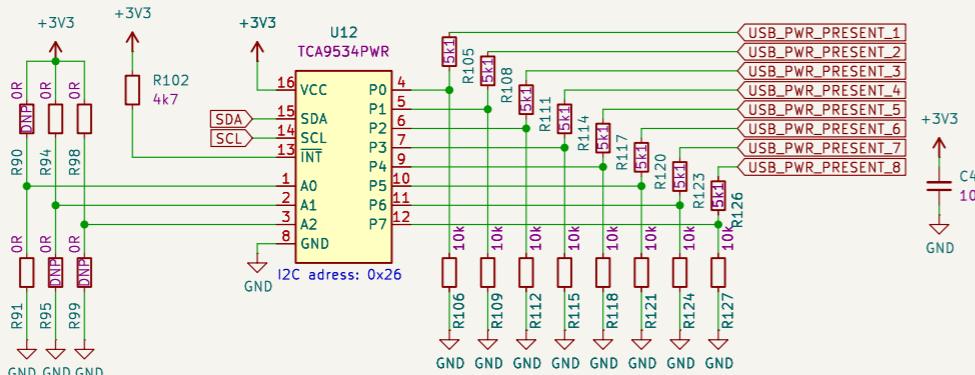
GPIO EXPANDER for OVERTEMP



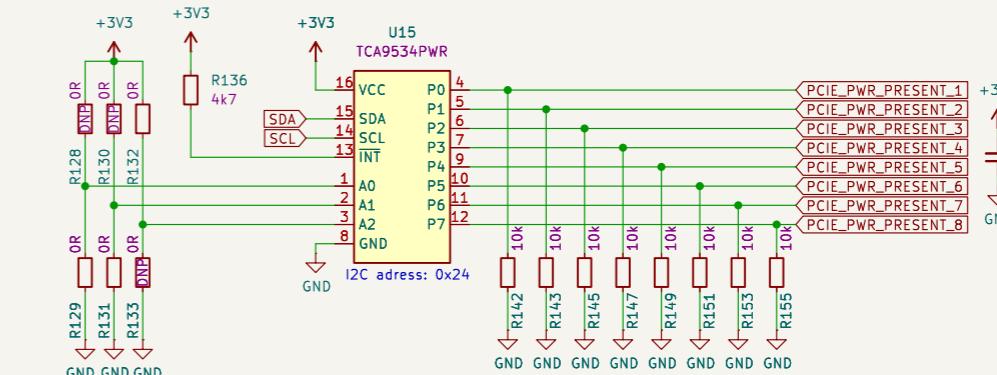
GPIO EXPANDER for FAN_FAIL



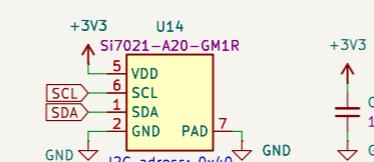
GPIO EXPANDER for USB_PWR_PRESENT



GPIO EXPANDER for PCIE_PWR_PRESENT



Temperature and humidity sensor



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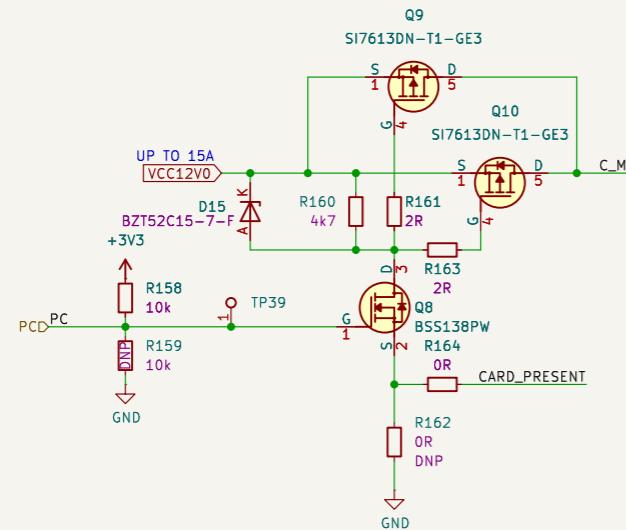
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Sheet: /Debug signals/
File: debug-signals.kicad_sch

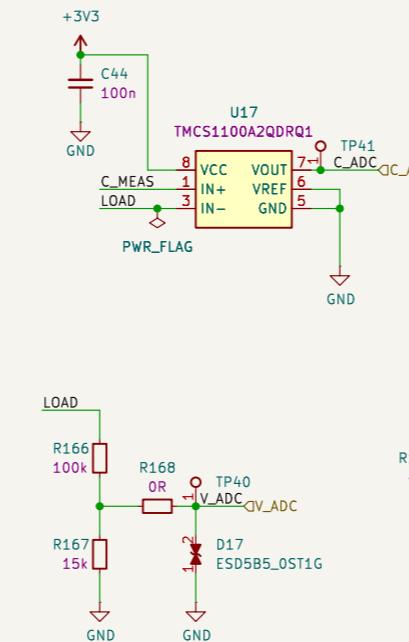
Title: GPU Cluster Backplane

Size: A3 Date: 2023-11-24
KiCad E.D.A. kicad-cl 7.0.10+1Rev: 1.0.1:a4d90
Id: 8/16

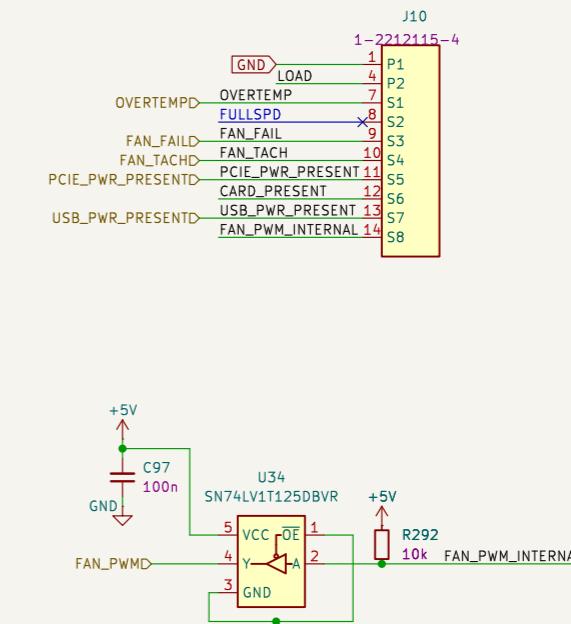
Channel high side switch



Current and voltage measurement



GPU Adapter connector



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Sheet: /Output control and data acquisition/GPU-output1/
File: GPU-output.kicad_sch

Title: GPU Cluster Backplane

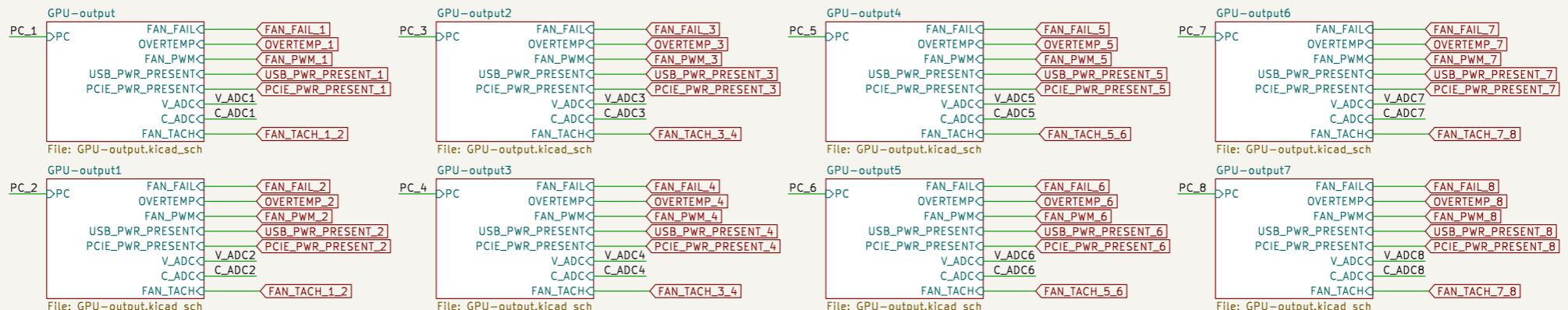
Size: A3 | Date: 2023-11-24
KiCad E.D.A. kicad-cli 7.0.10+1

Rev: 1.0.1:a4d90
Id: 10/16

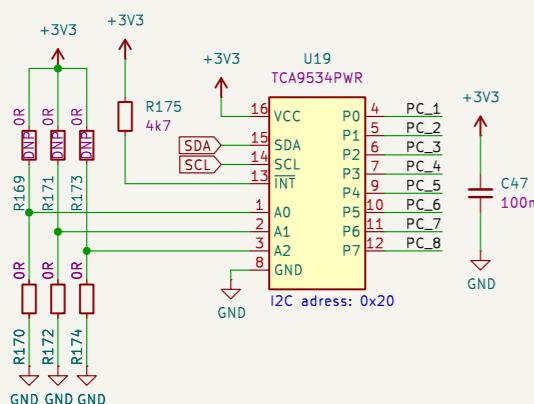
1 2 3 4 5 6 7 8

A

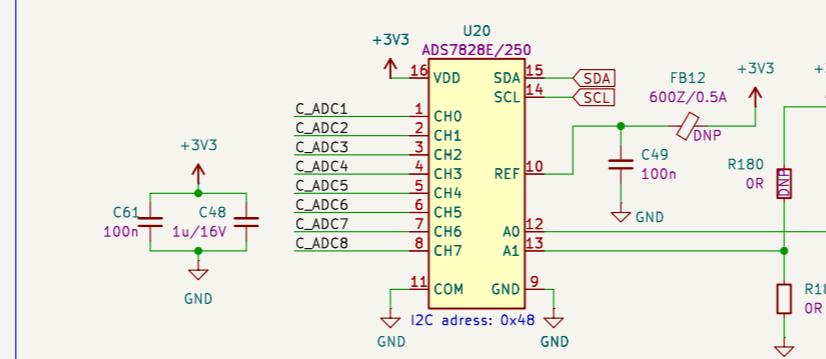
Individual channels for connecting thunderbolt-gpu-adapters



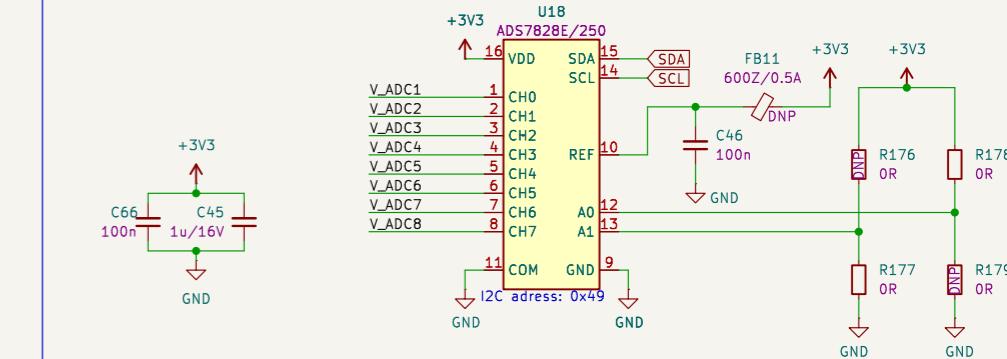
GPIO EXPANDER for power cycling



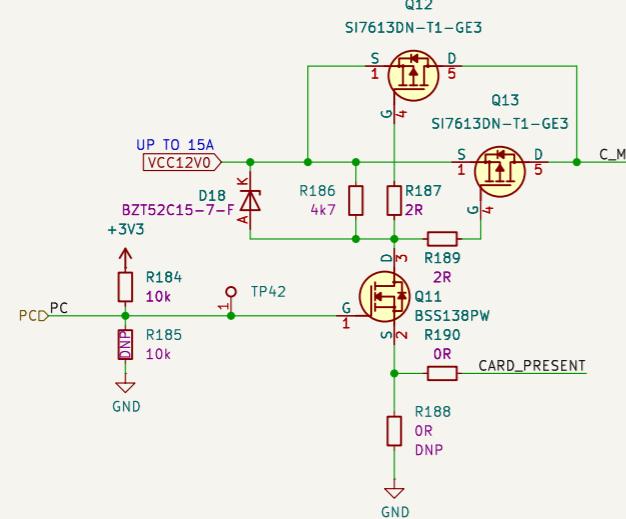
ADC for current measurement



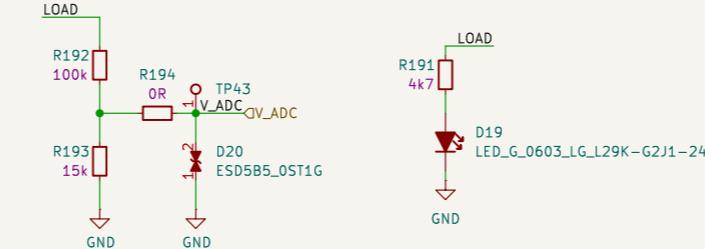
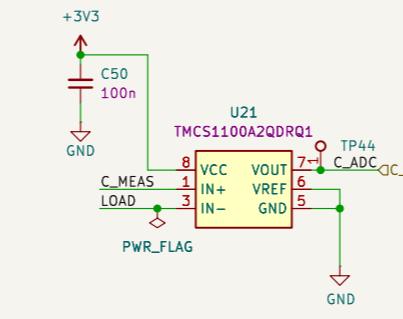
ADC for voltage measurement



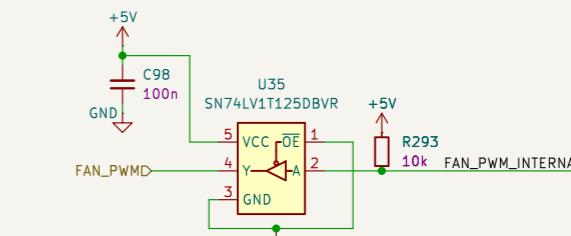
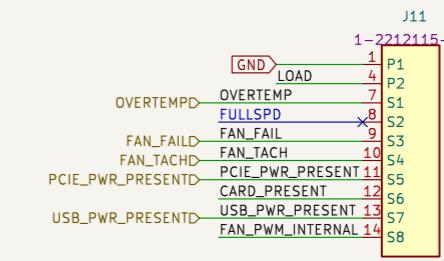
Channel high side switch



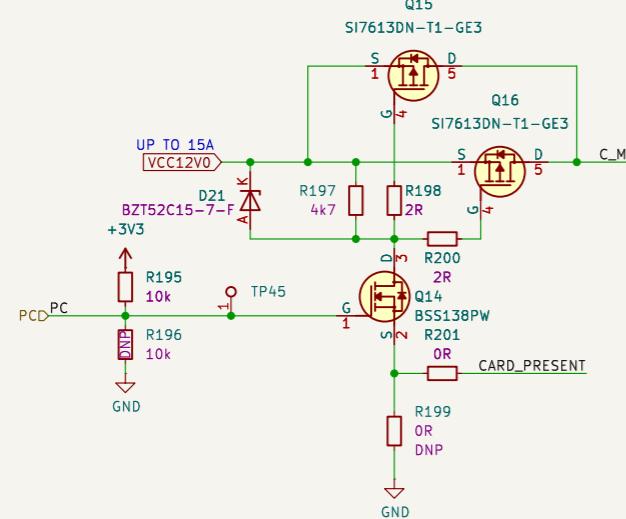
Current and voltage measurement



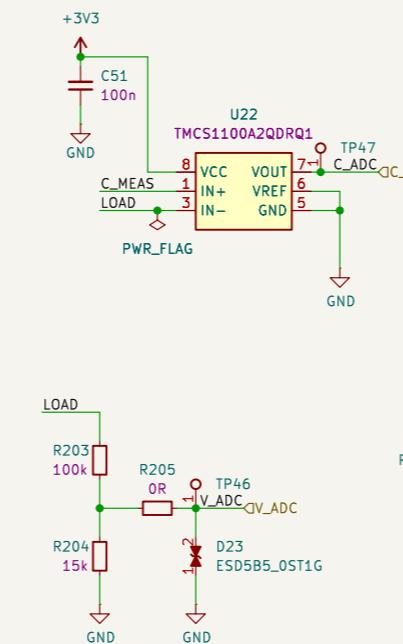
GPU Adapter connector



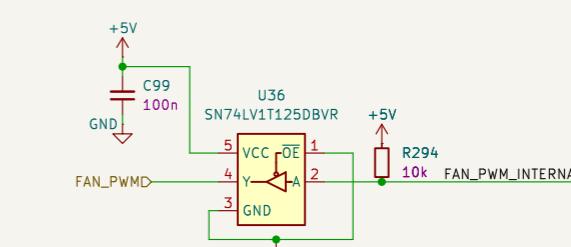
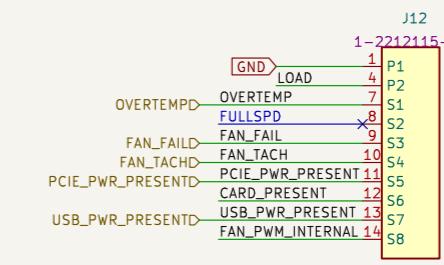
Channel high side switch



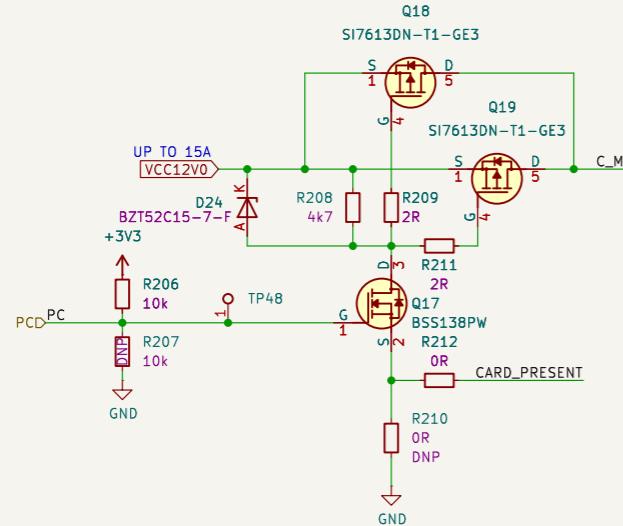
Current and voltage measurement



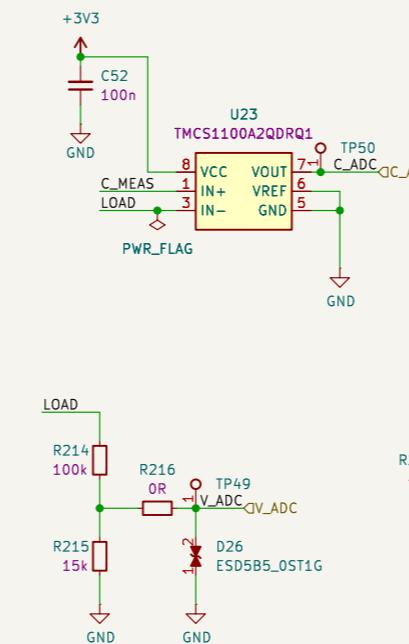
GPU Adapter connector



Channel high side switch



Current and voltage measurement



GPU Adapter connector

