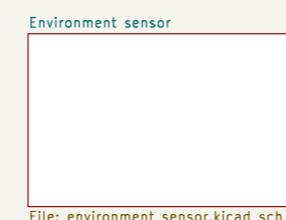
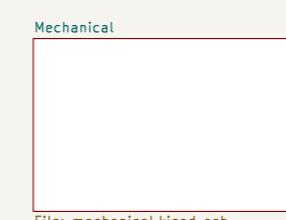
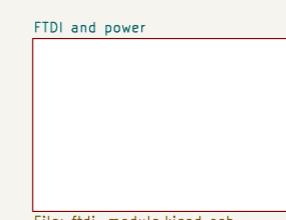
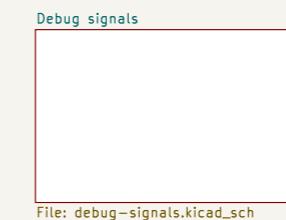
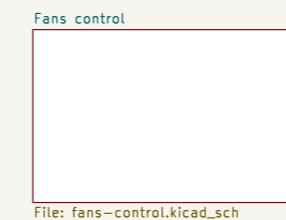
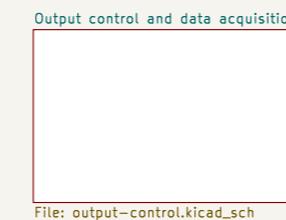
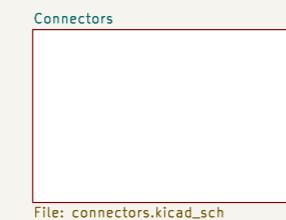
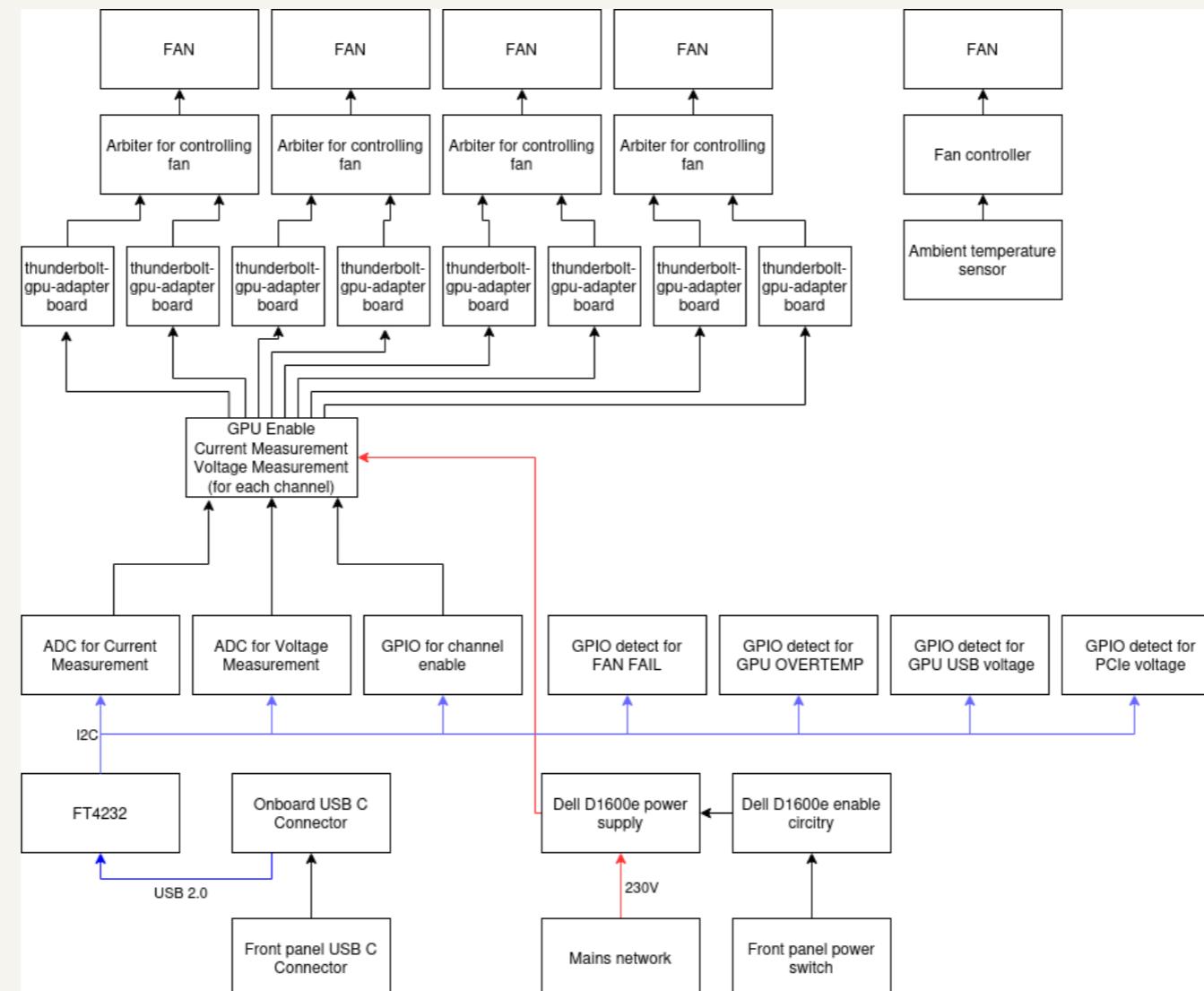
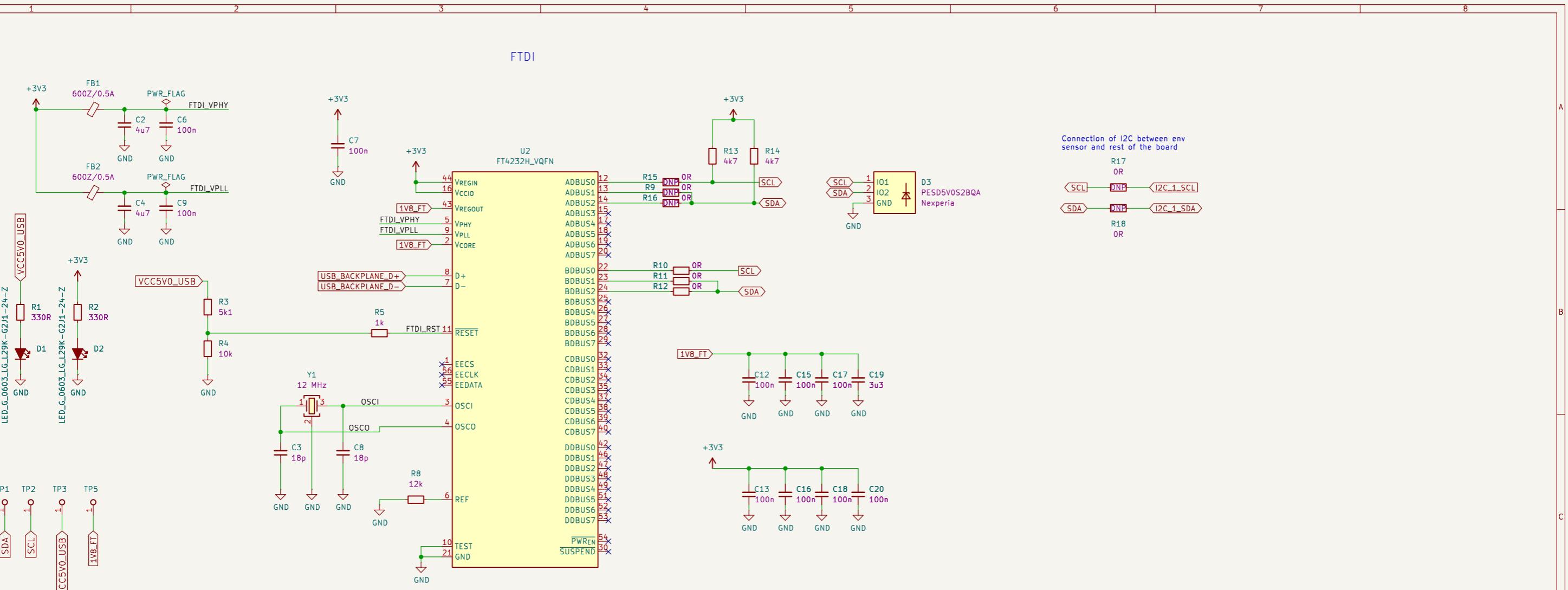


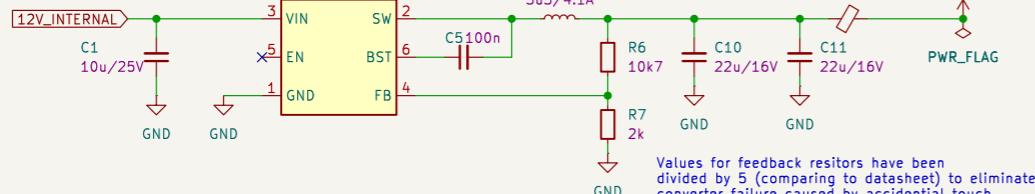
GPU Cluster Backplane



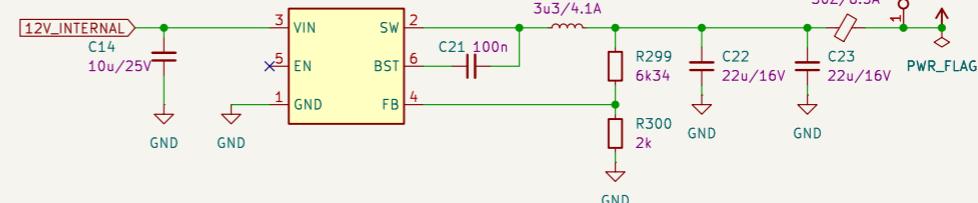
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Antmicro Ltd
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File: gpu-cluster-backplane.kicad_sch
Title: GPU Cluster Backplane
Size: A3 Date: 2023-11-28
KiCad E.D.A. kicad-cli 7.0.10+1 Rev: 1.0.1:e9801
Id: 1/16



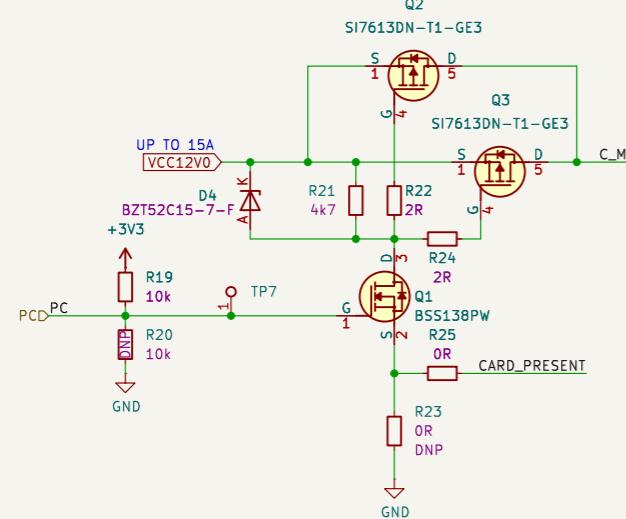
5V0 DC/DC Converter



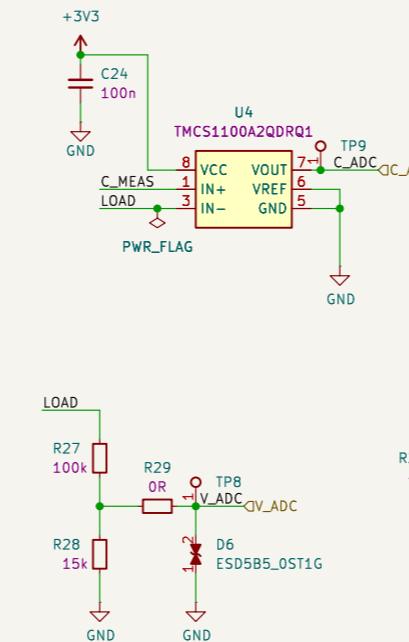
3V3 DC/DC Converter



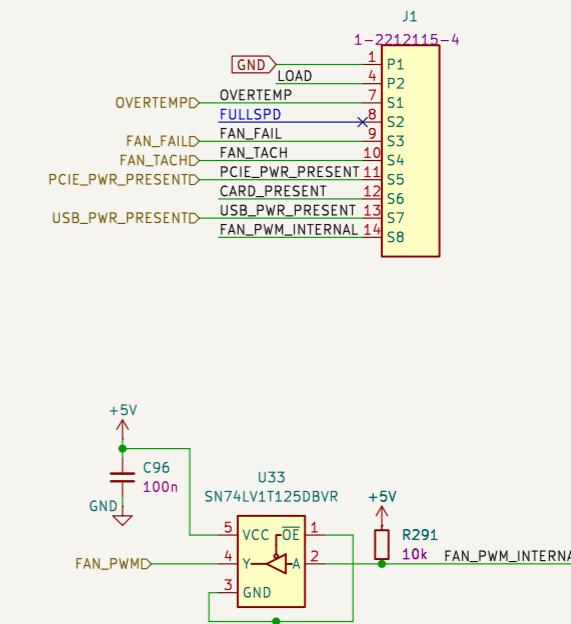
Channel high side switch

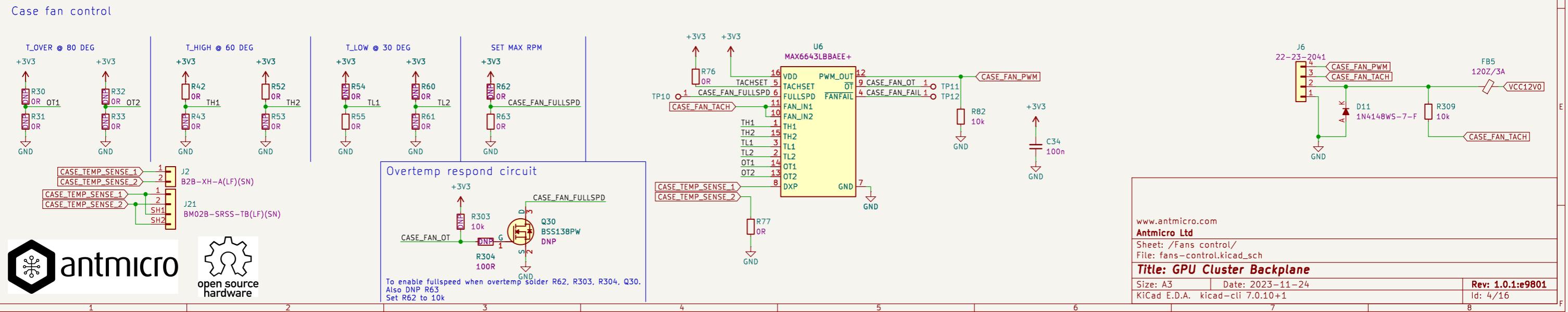
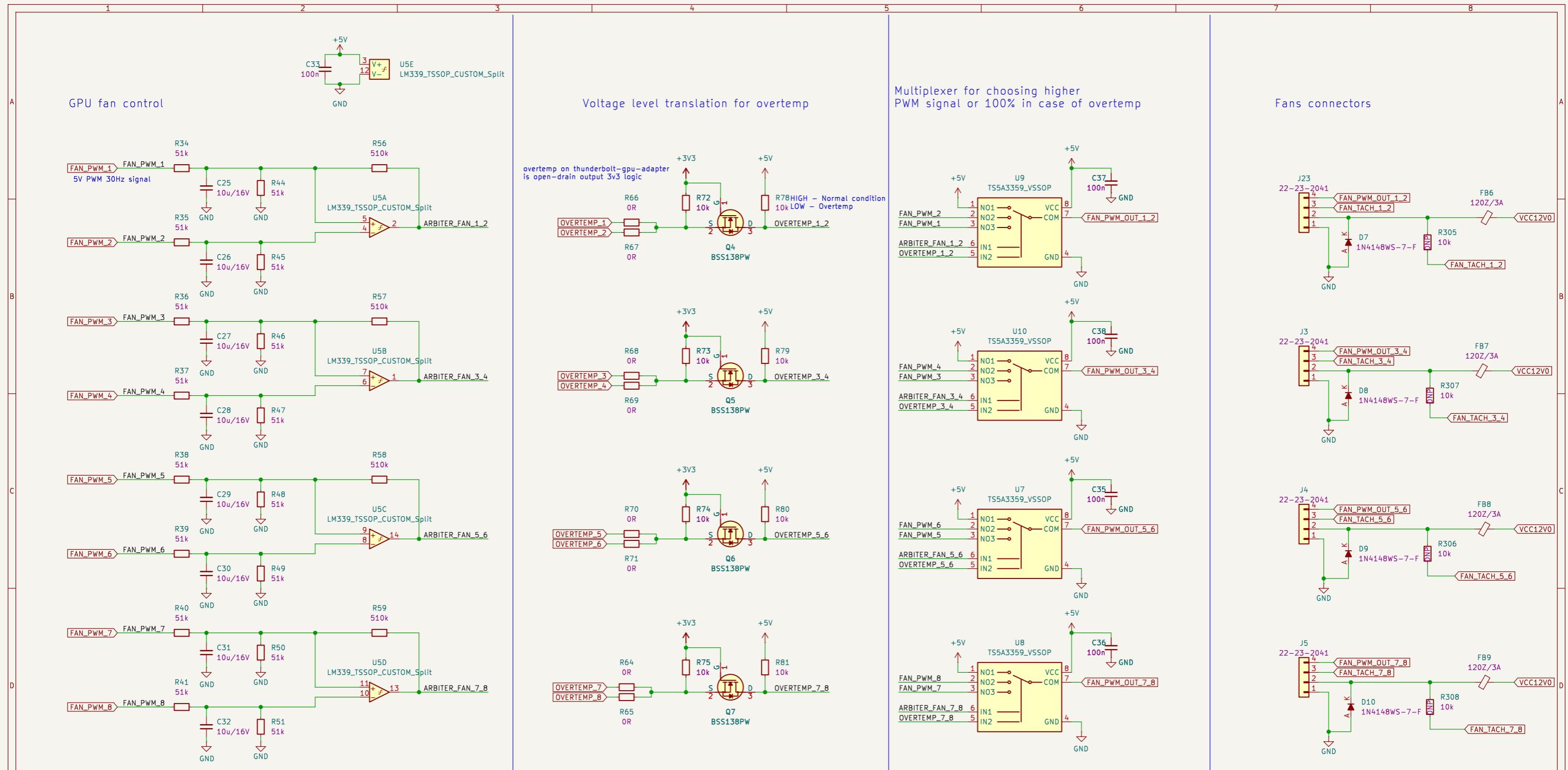


Current and voltage measurement



GPU Adapter connector





A

B

C

D

E

F

A

B

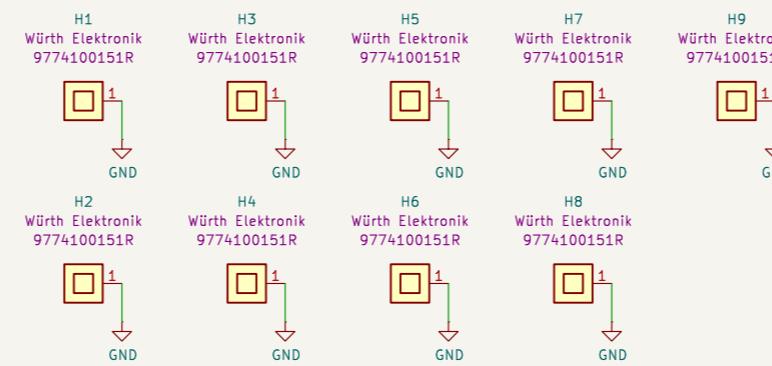
C

D

E

F

Holes for studs


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Sheet: /Mechanical/

File: mechanical.kicad_sch

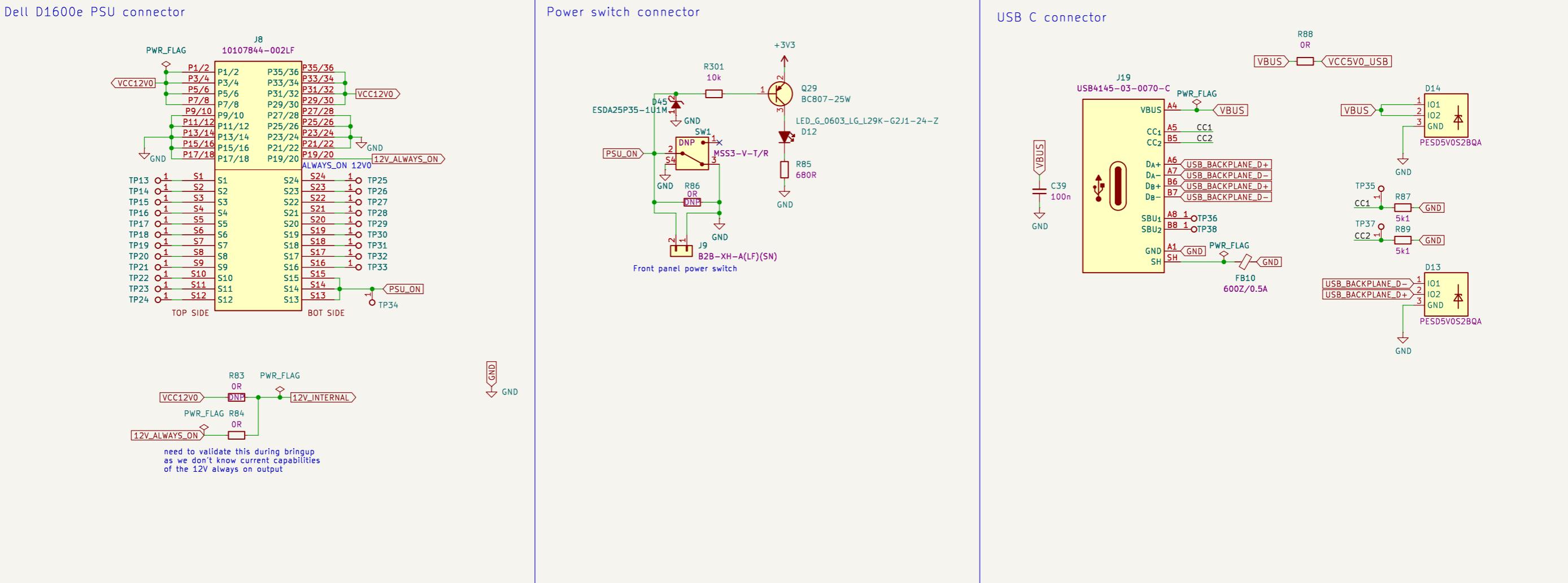
Title: GPU Cluster Backplane

Size: A3 Date: 2023-11-24

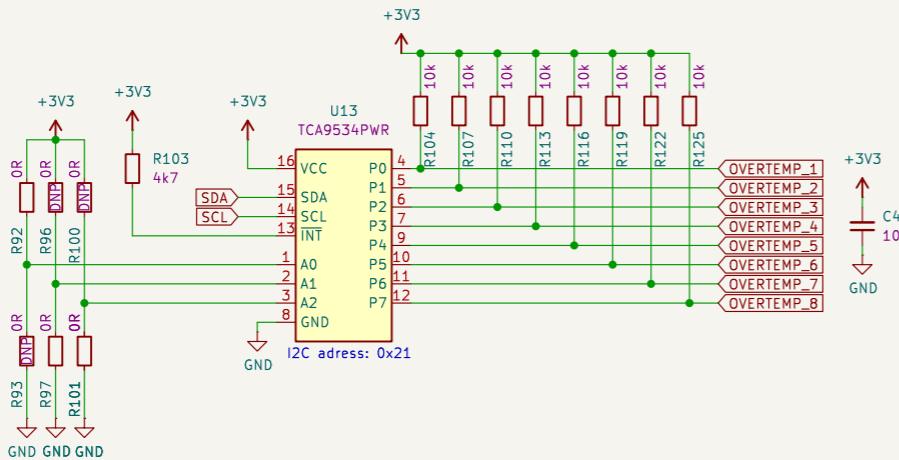
KiCad E.D.A. kicad-cli 7.0.10+1

Rev: 1.0.1:e9801

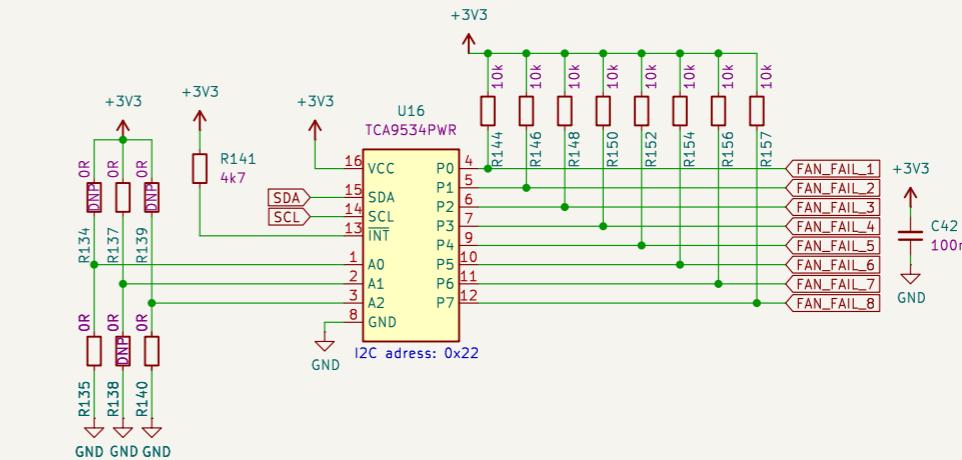
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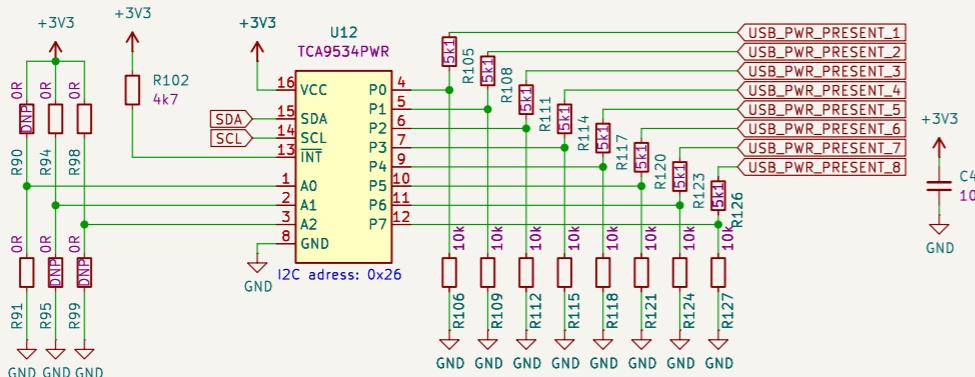
GPIO EXPANDER for OVERTEMP



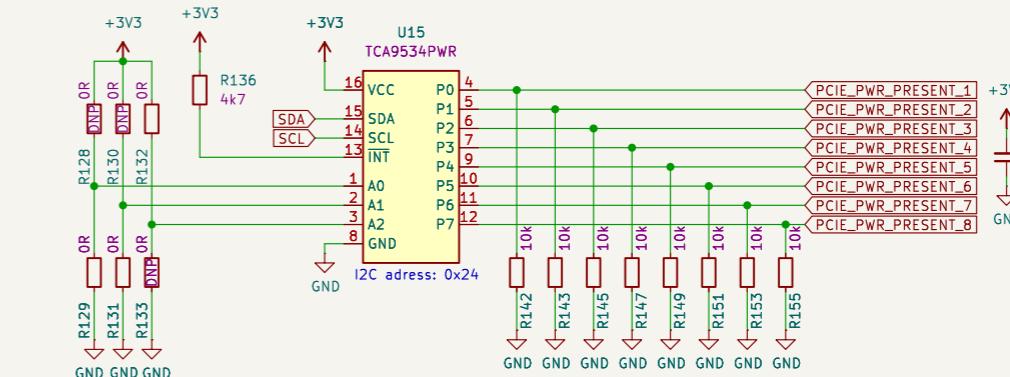
GPIO EXPANDER for FAN_FAIL



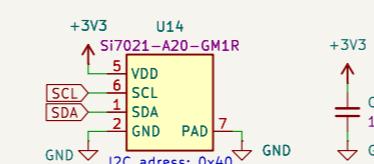
GPIO EXPANDER for USB_PWR_PRESENT



GPIO EXPANDER for PCIE_PWR_PRESENT



Temperature and humidity sensor



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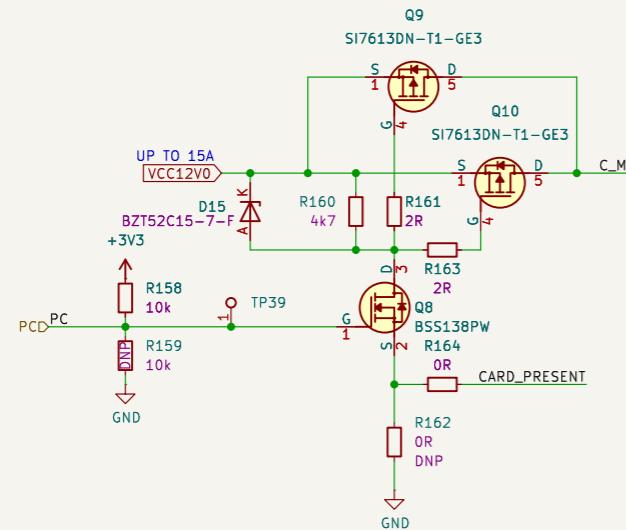
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Sheet: /Debug signals/
File: debug-signals.kicad_sch

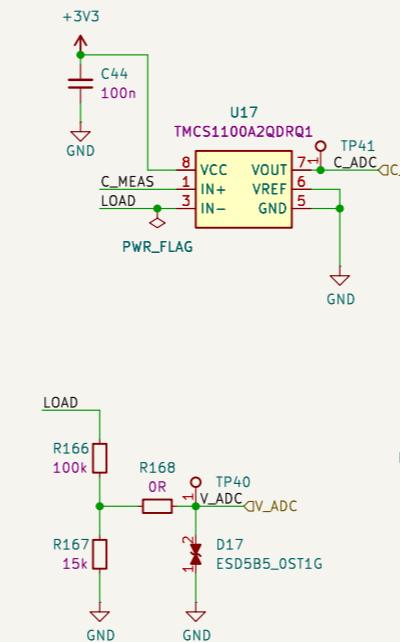
Title: GPU Cluster Backplane

Size: A3 Date: 2023-11-24
KiCad E.D.A. kicad-cli 7.0.10+1Rev: 1.0.1:e9801
Id: 8/16

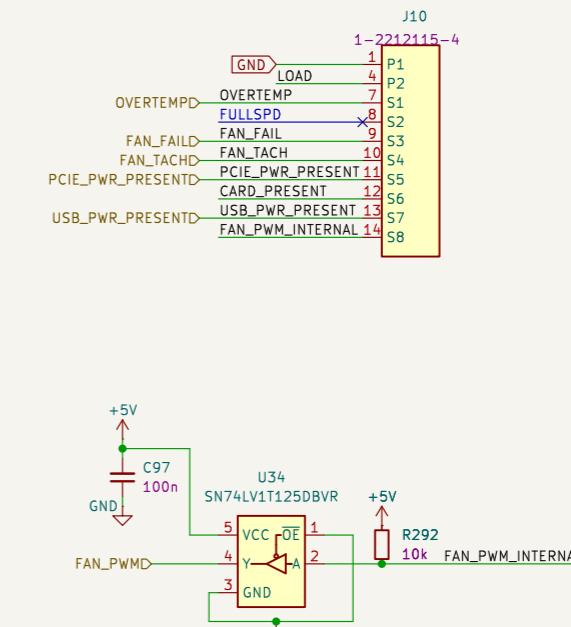
Channel high side switch



Current and voltage measurement



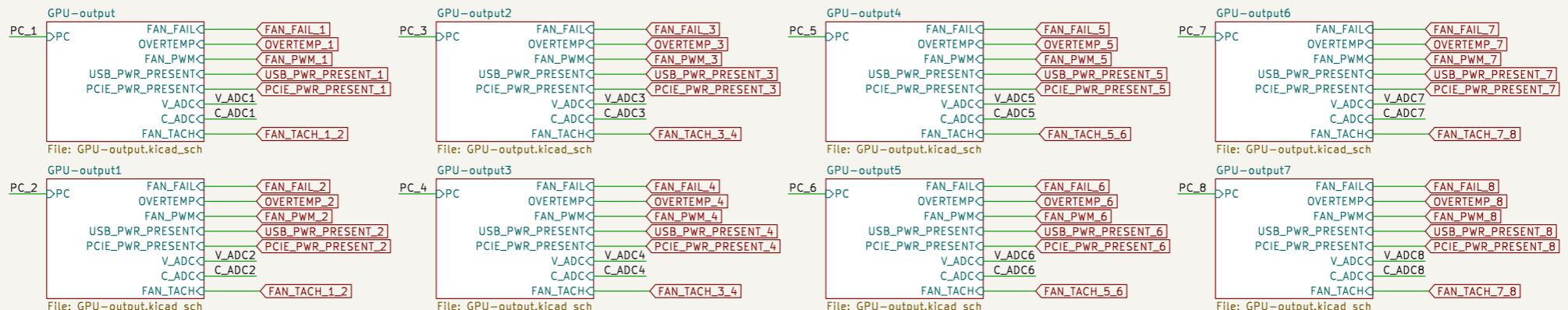
GPU Adapter connector



1 2 3 4 5 6 7 8

A

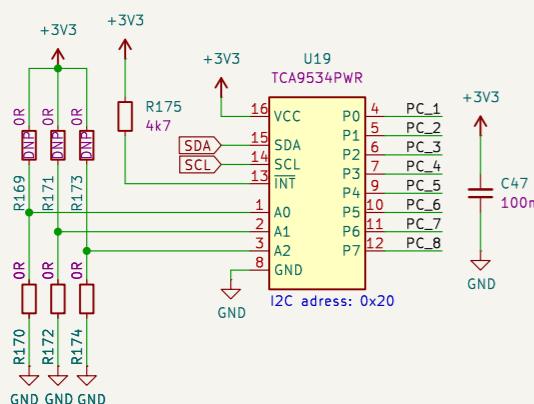
Individual channels for connecting thunderbolt-gpu-adapters



B

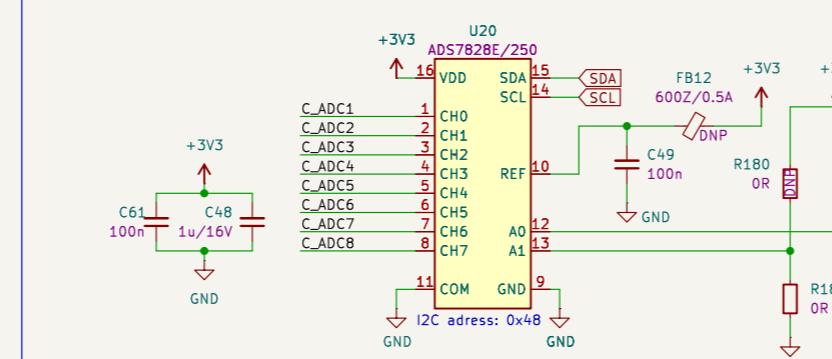
A

GPIO EXPANDER for power cycling



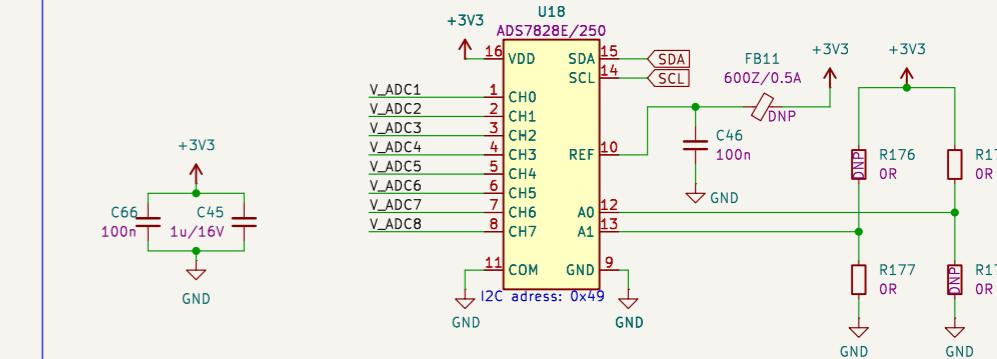
C

ADC for current measurement



D

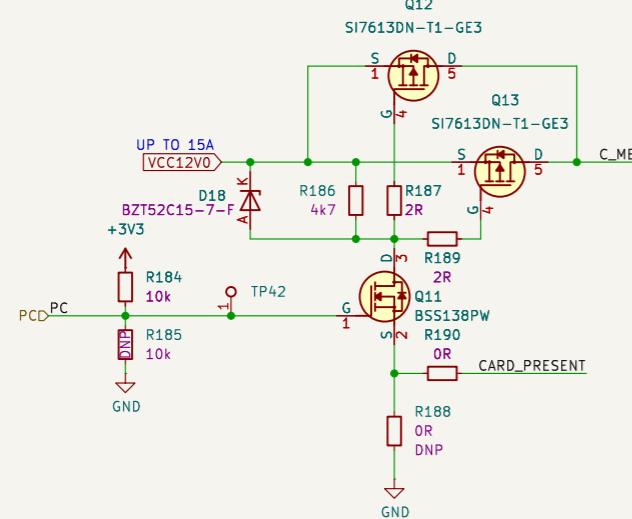
ADC for voltage measurement



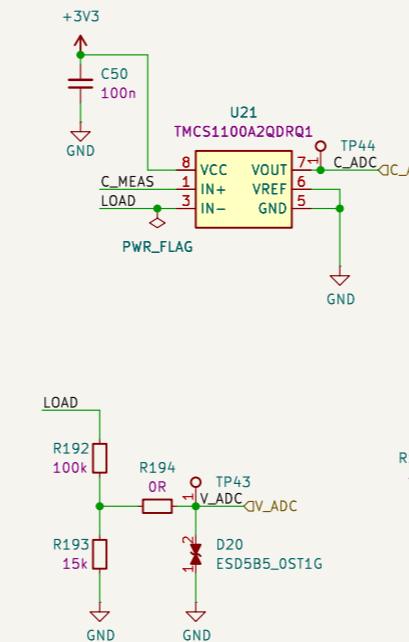
E

1 2 3 4 5 6 7 8

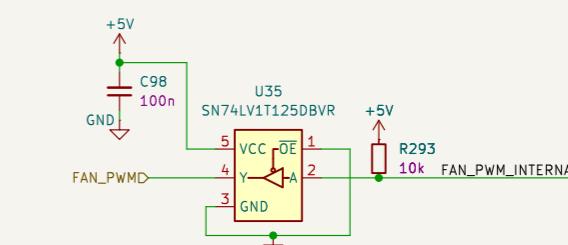
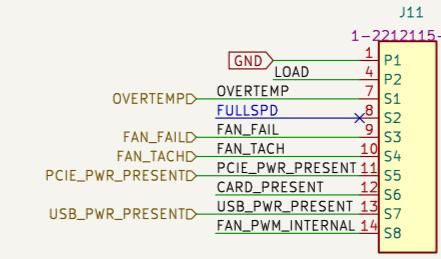
Channel high side switch



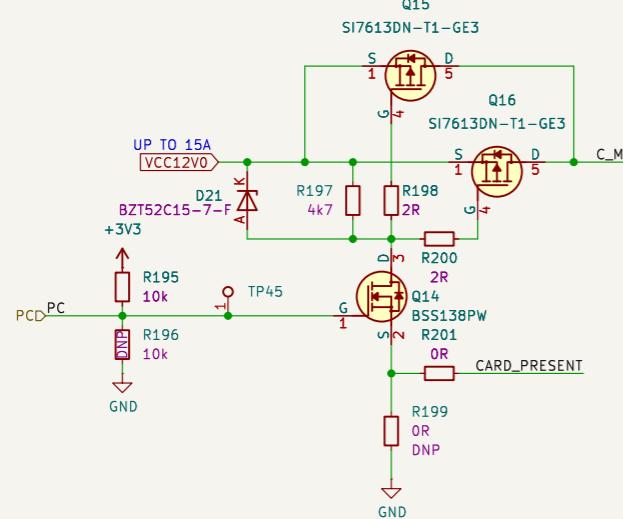
Current and voltage measurement



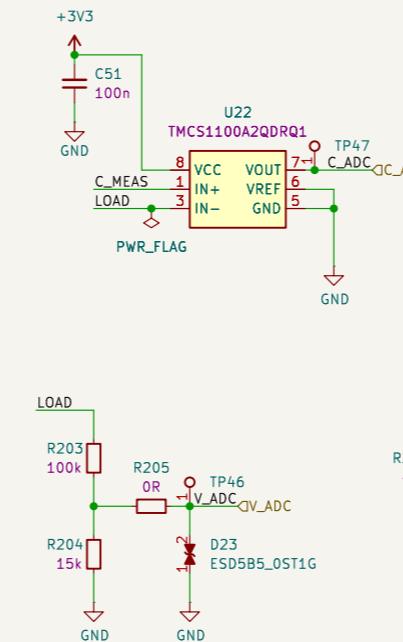
GPU Adapter connector



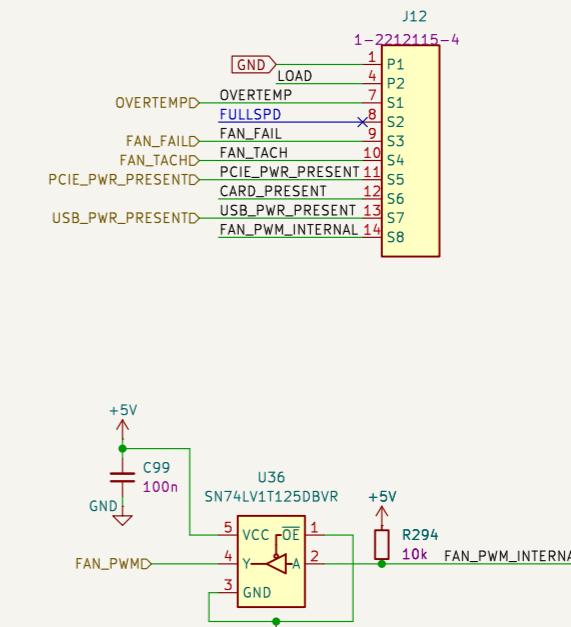
Channel high side switch



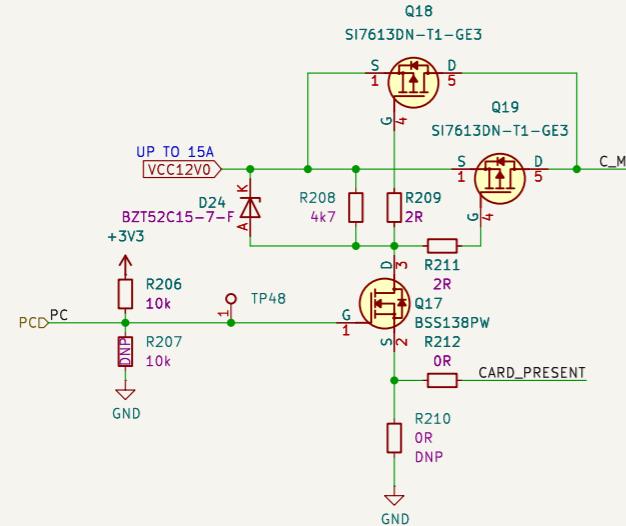
Current and voltage measurement



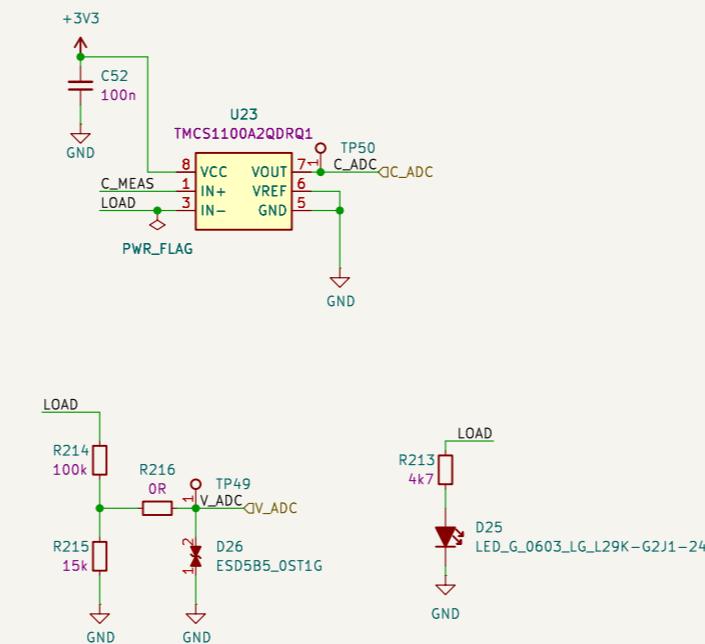
GPU Adapter connector



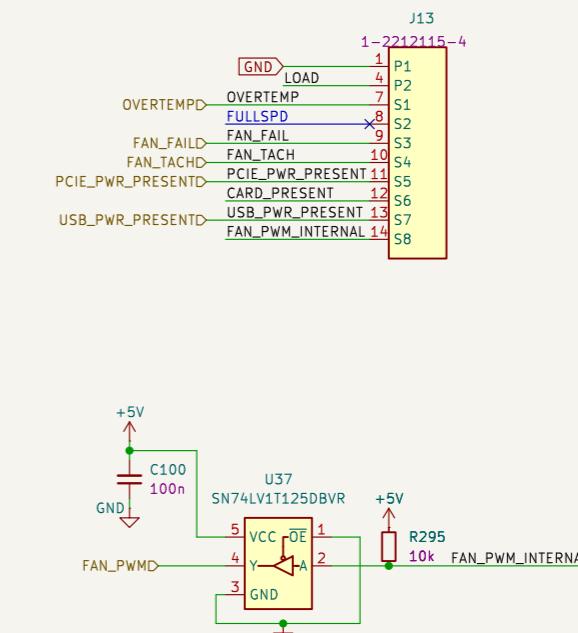
Channel high side switch



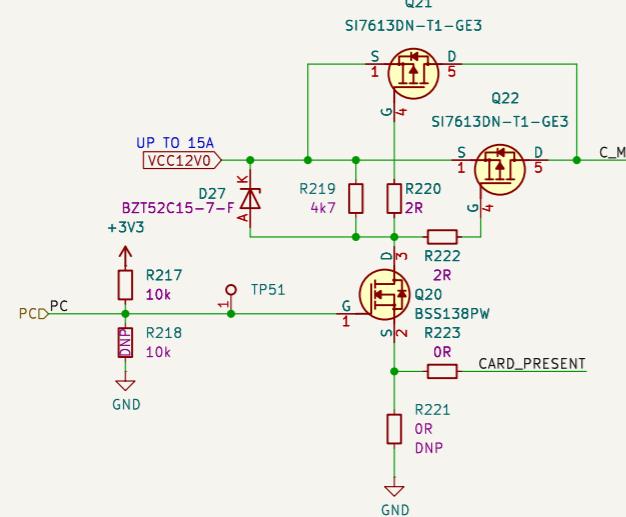
Current and voltage measurement



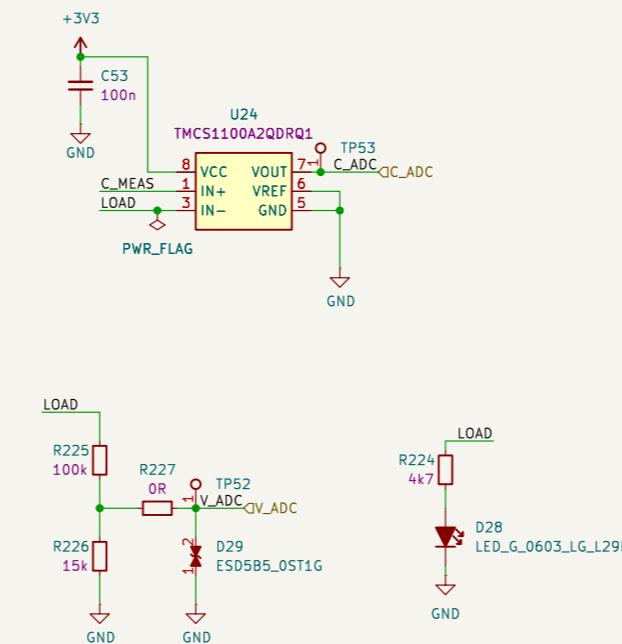
GPU Adapter connector



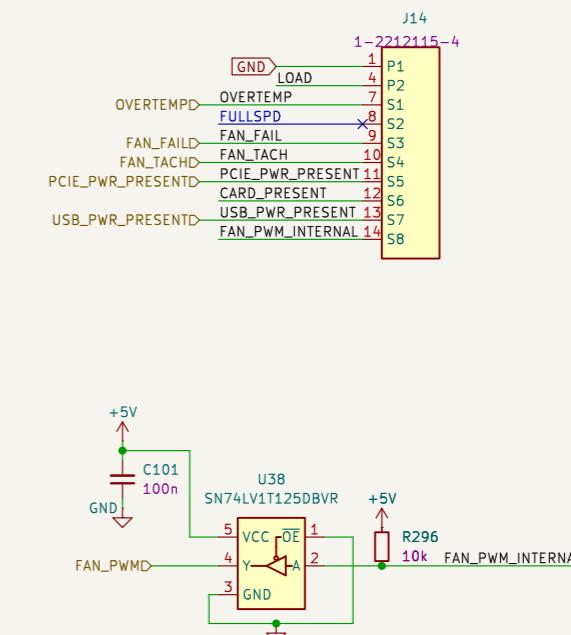
Channel high side switch



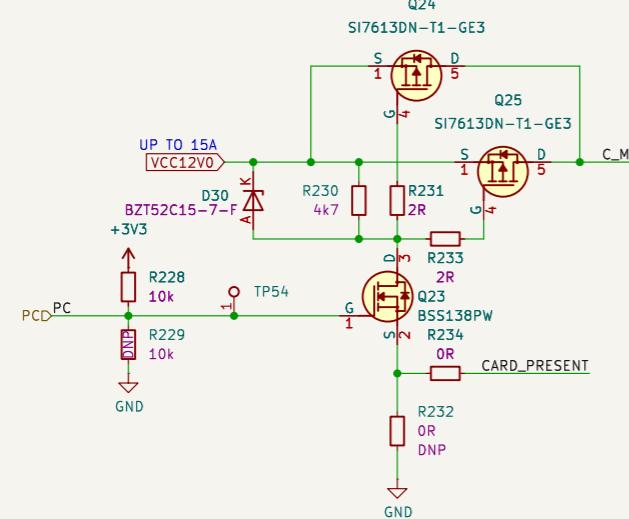
Current and voltage measurement



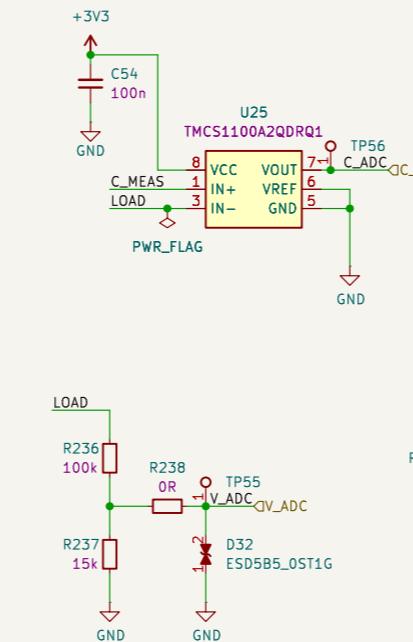
GPU Adapter connector



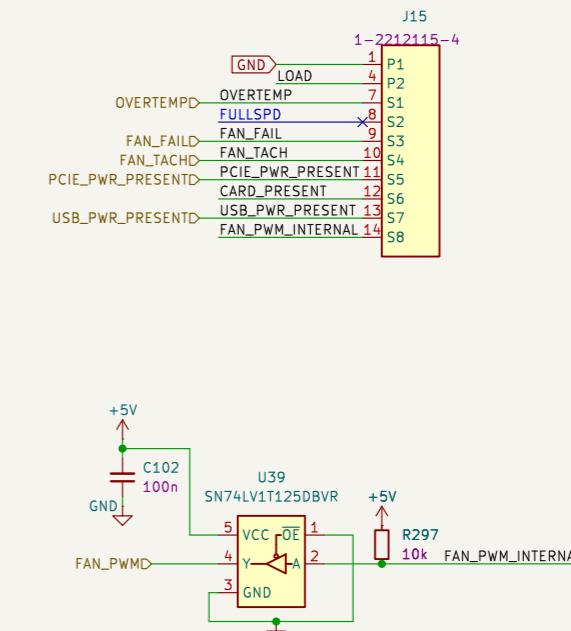
Channel high side switch

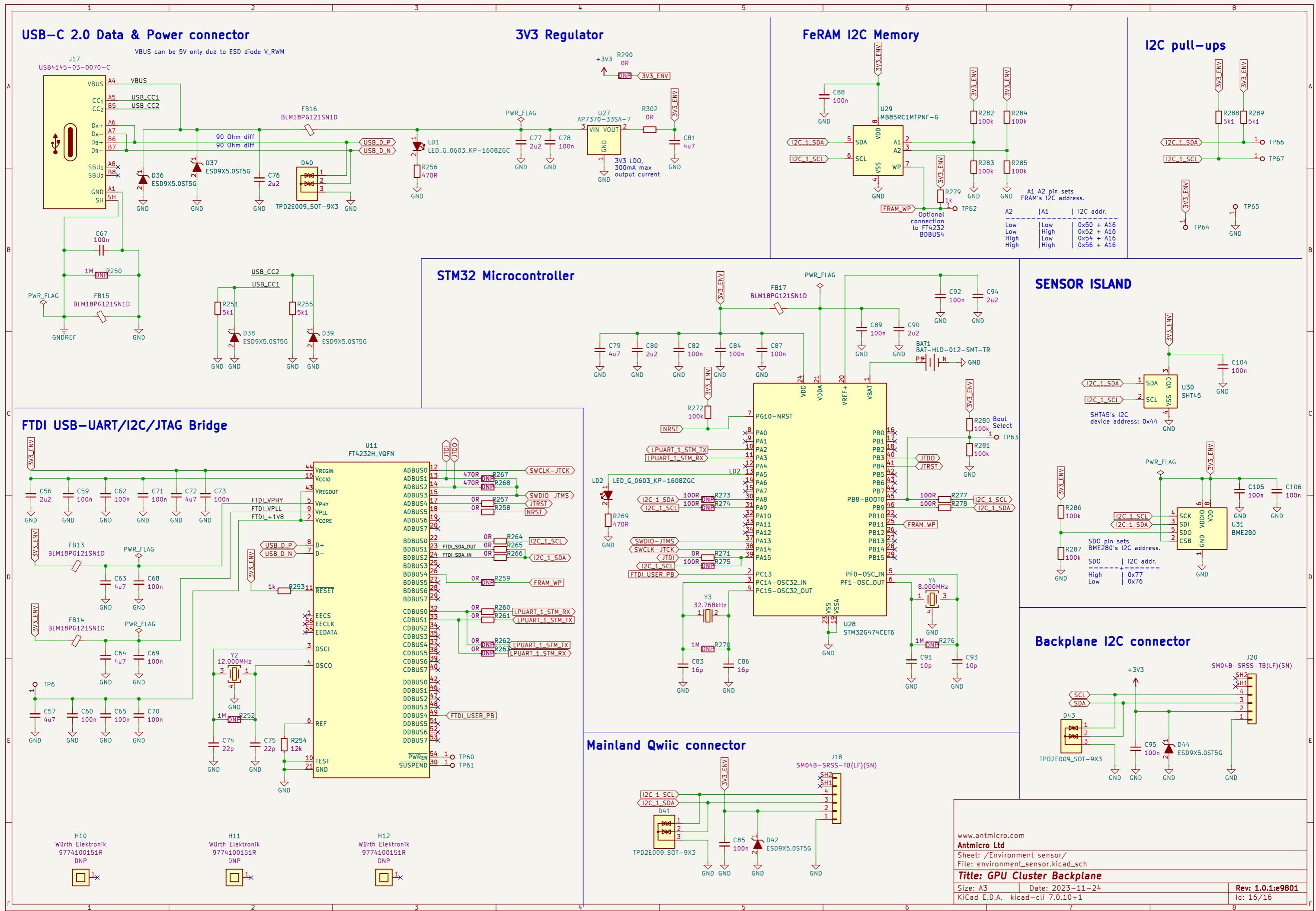


Current and voltage measurement

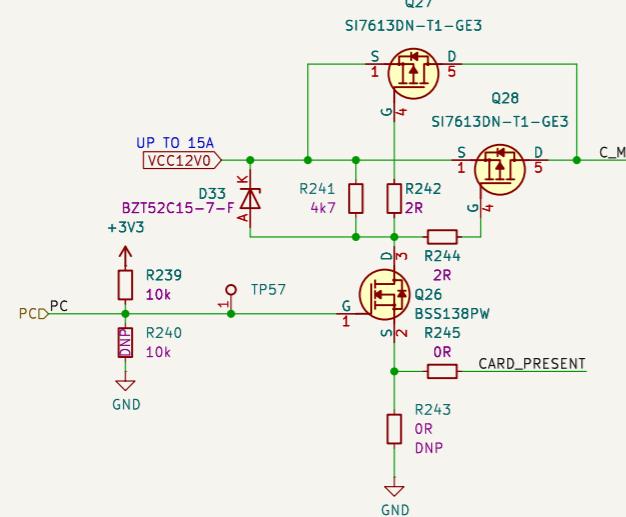


GPU Adapter connector

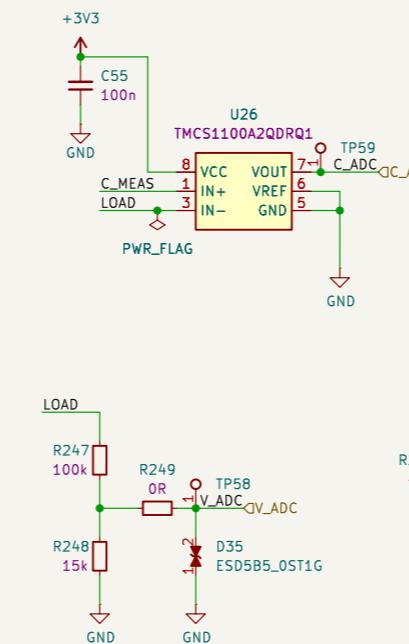




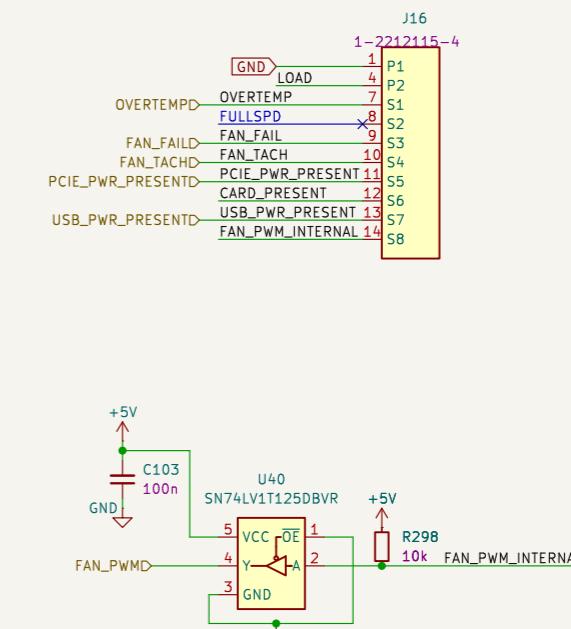
Channel high side switch



Current and voltage measurement



GPU Adapter connector



A

A

B

B

C

C

D

D

E

E