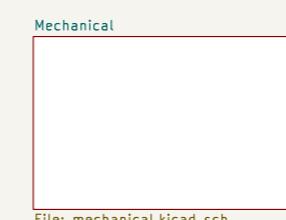
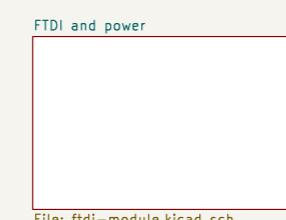
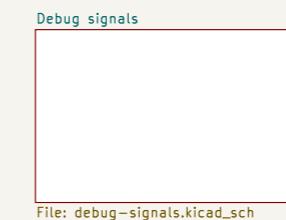
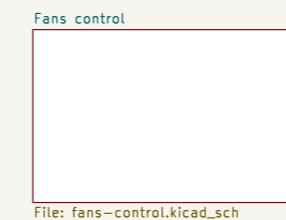
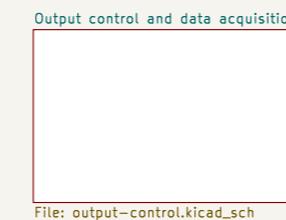
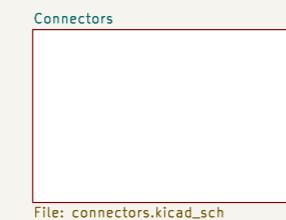
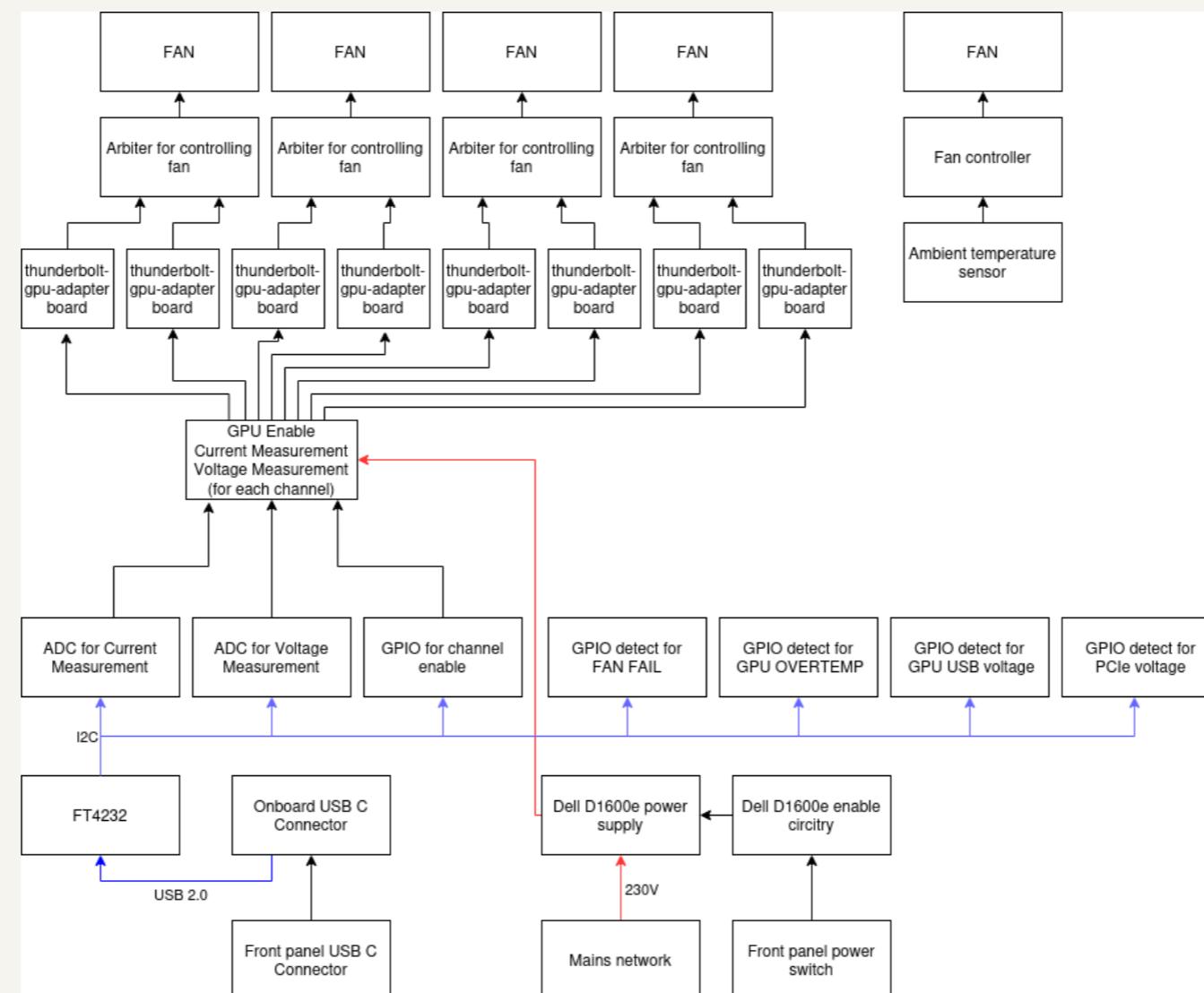
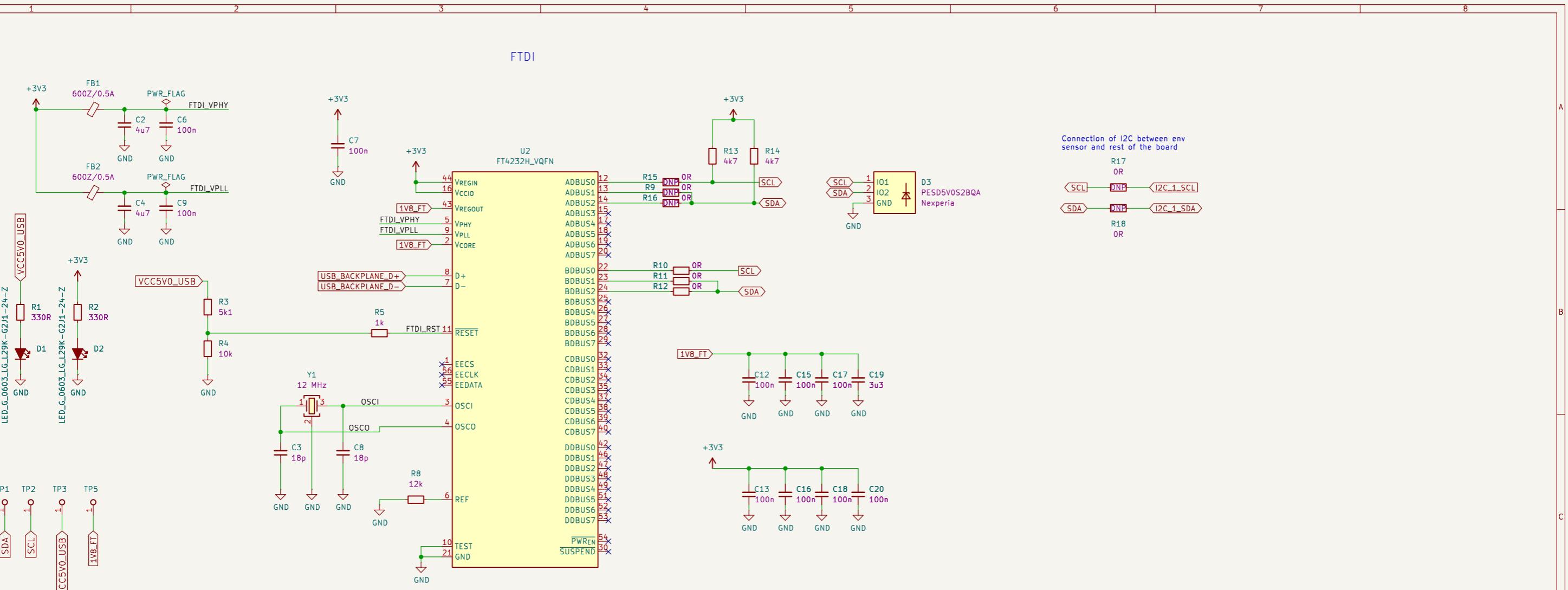


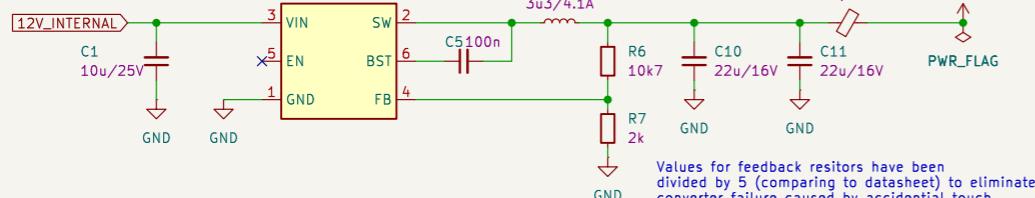
GPU Cluster Backplane



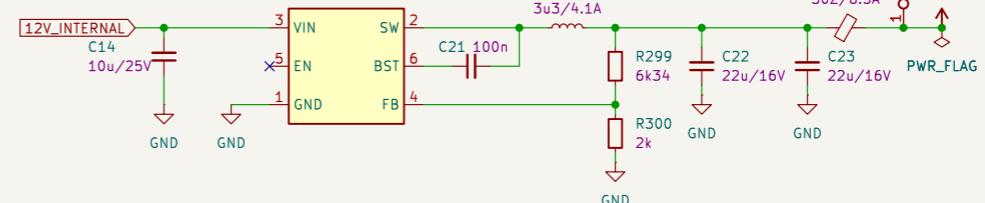
www.antmicro.com Antmicro Ltd Sheet: / File: gpu-cluster-backplane.kicad_sch Title: GPU Cluster Backplane Size: A3 Date: 2023-11-09 KiCad E.D.A. kicad-cli 7.0.10+1 Rev: 1.0.0:e6ffc Id: 1/15	

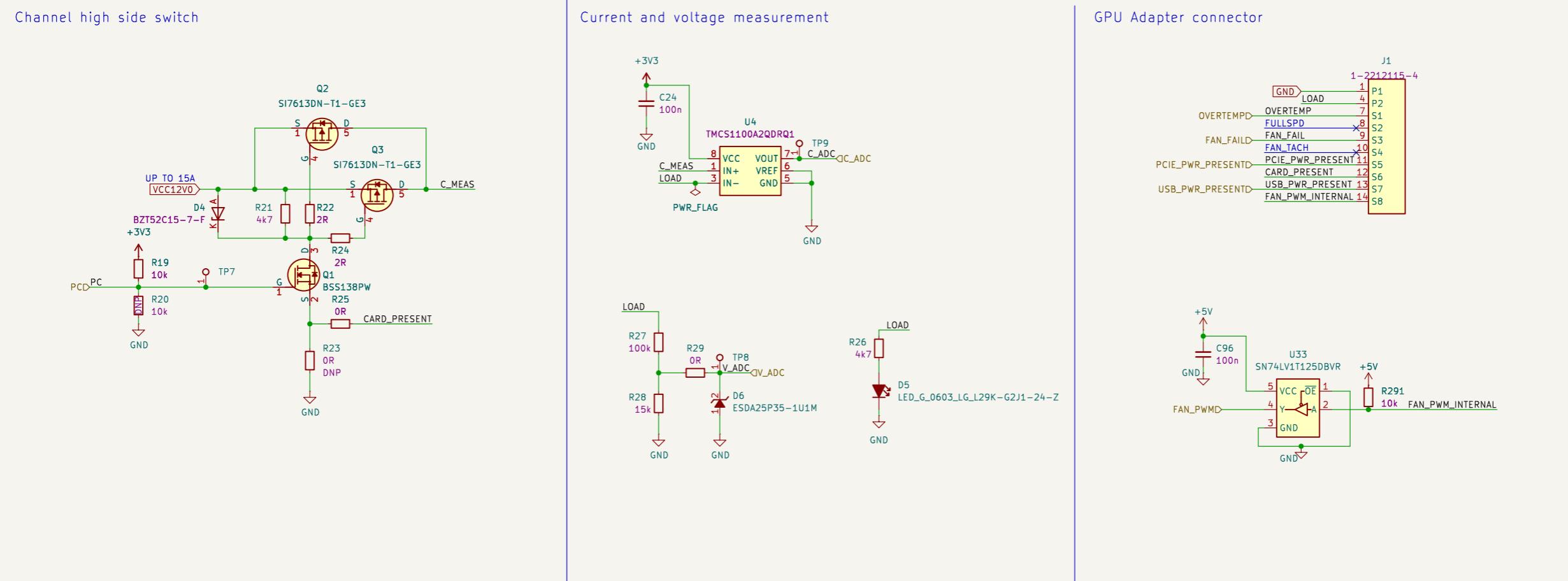


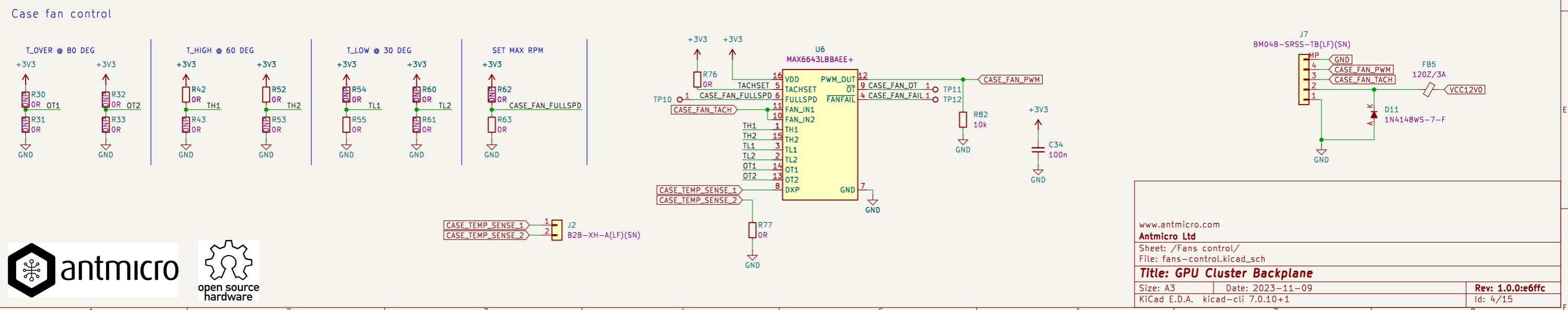
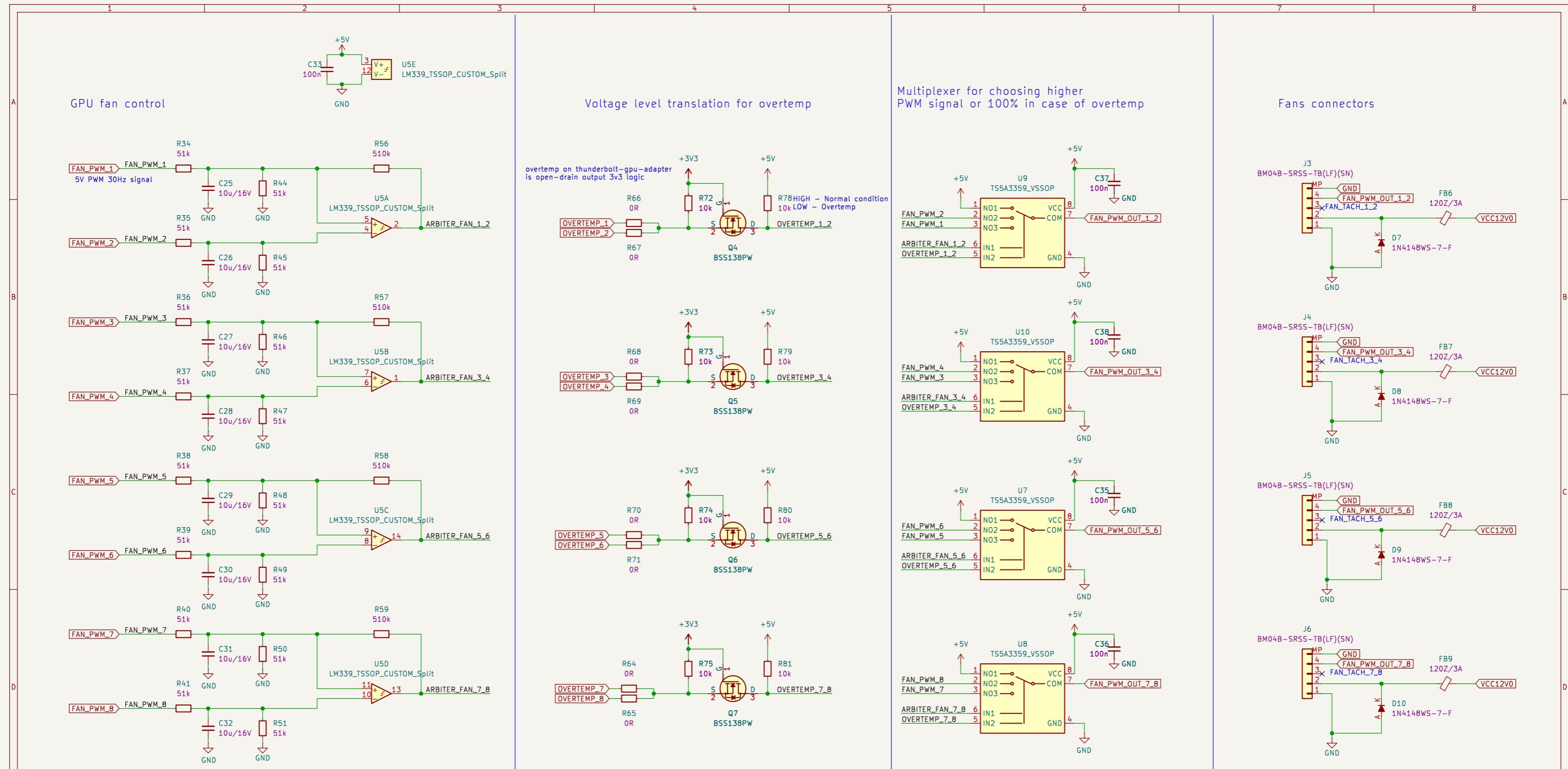
5V0 DC/DC Converter



3V3 DC/DC Converter







A

A

B

B

C

C

D

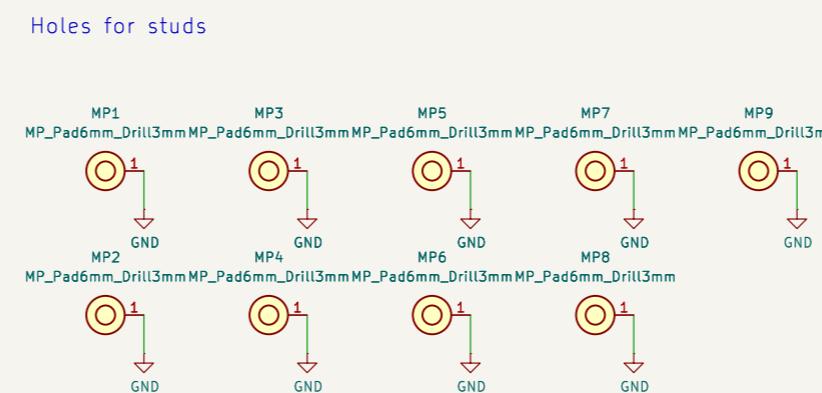
D

E

E

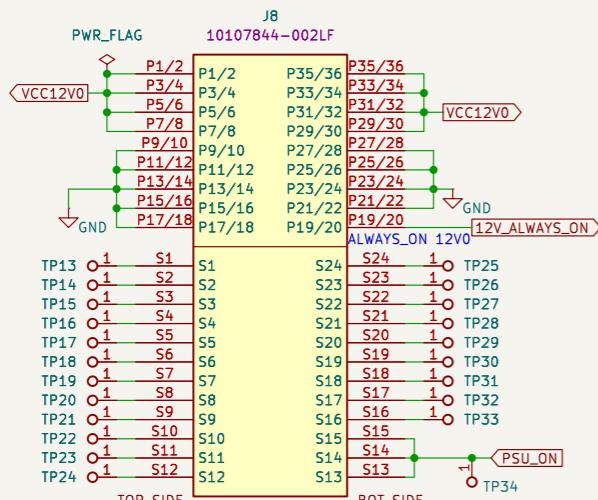
F

F

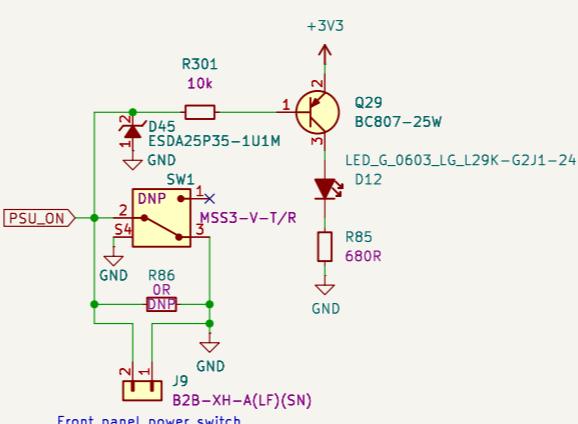


A

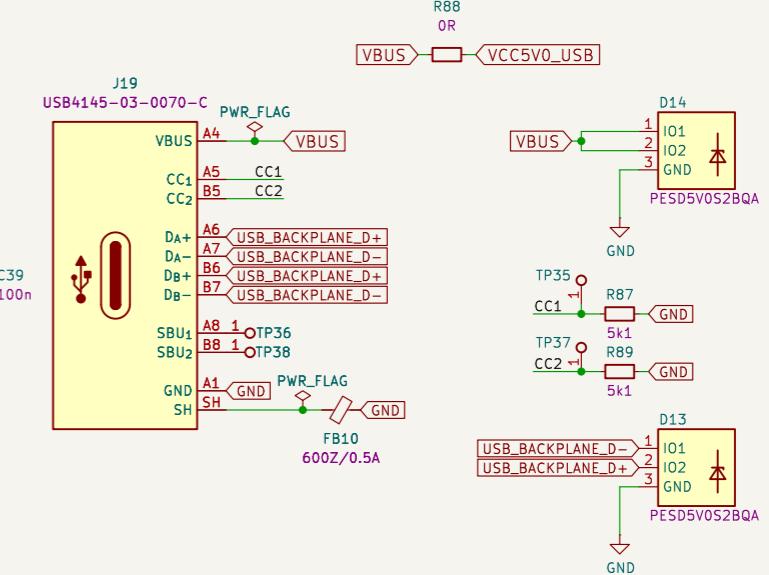
Dell D1600e PSU connector



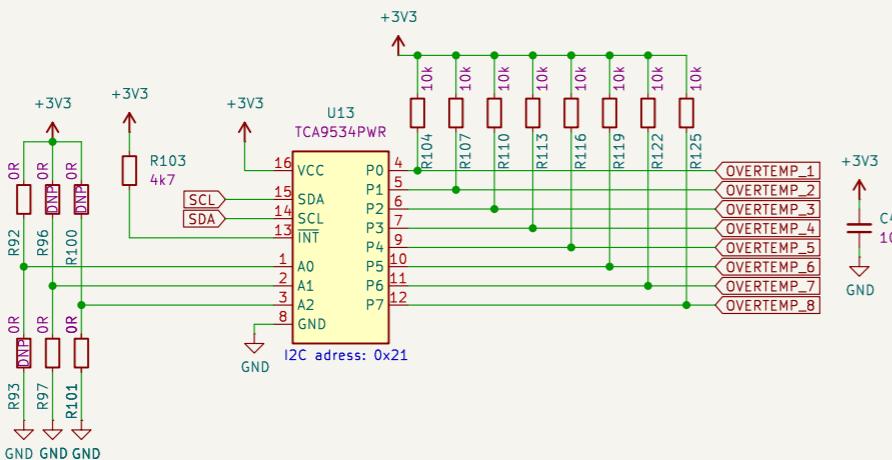
Power switch connector



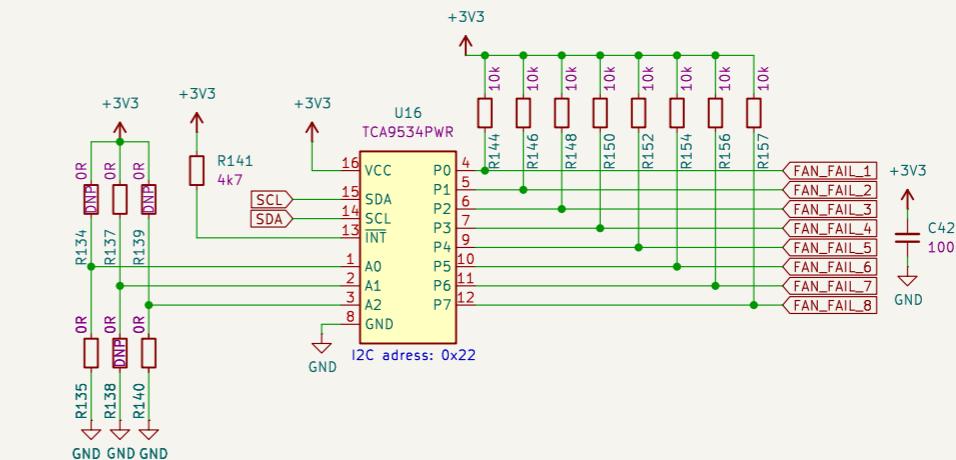
USB C connector



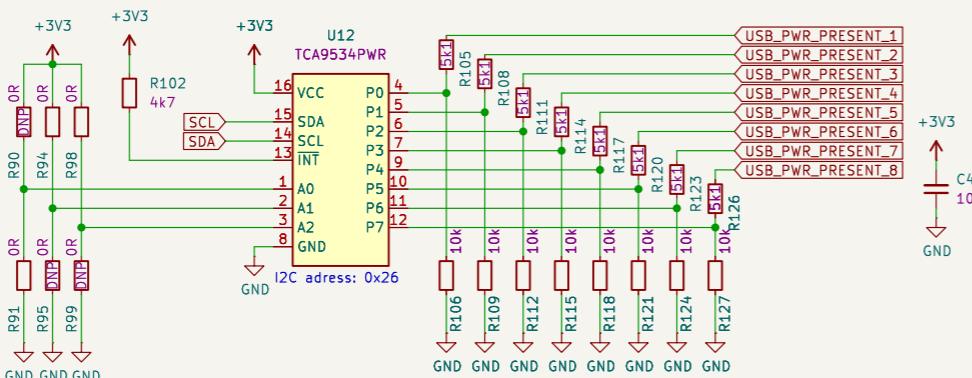
GPIO EXPANDER for OVERTEMP



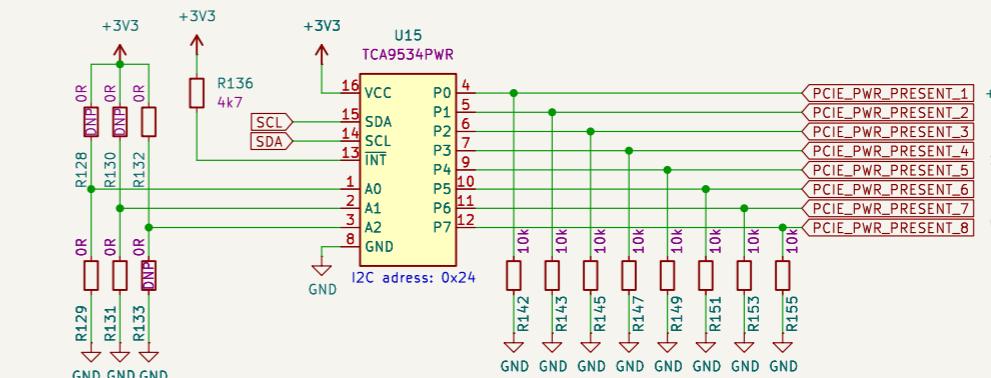
GPIO EXPANDER for FAN_FAIL



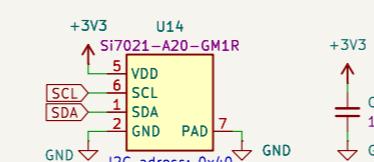
GPIO EXPANDER for USB_PWR_PRESENT



GPIO EXPANDER for PCIE_PWR_PRESENT



Temperature and humidity sensor



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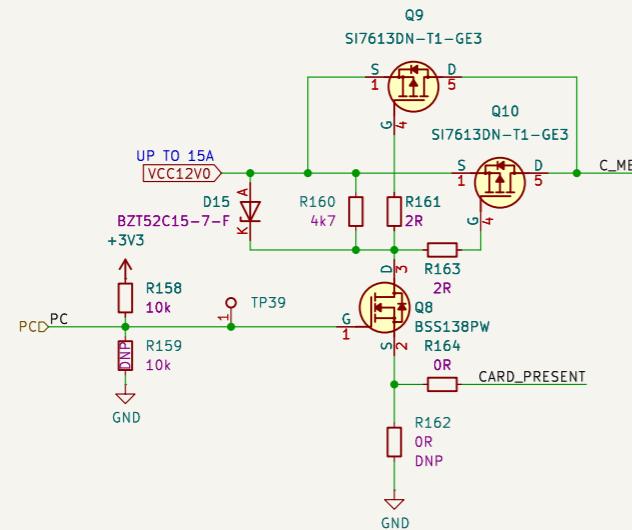
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File: debug-signals.kicad_sch

Title: GPU Cluster Backplane

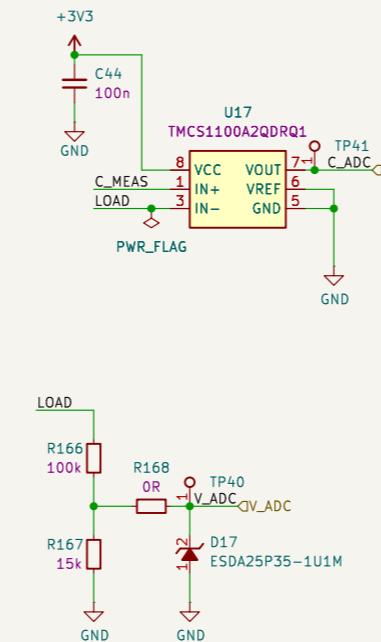
Size: A3 Date: 2023-11-09
KiCad E.D.A. kicad-cli 7.0.10+1

Rev: 1.0.0:e6ffc
Id: 8/15

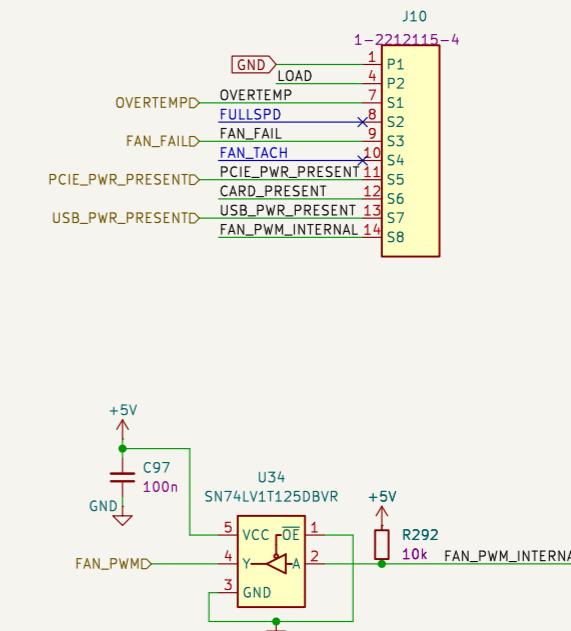
Channel high side switch



Current and voltage measurement



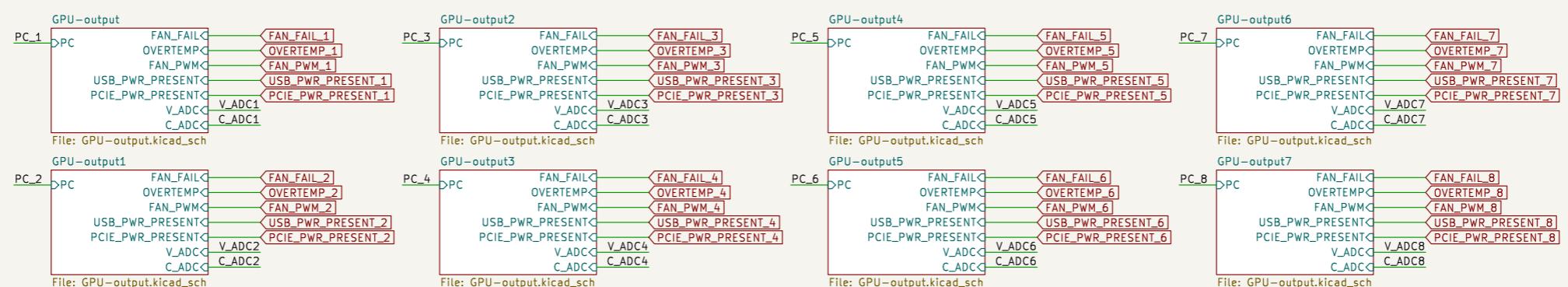
GPU Adapter connector



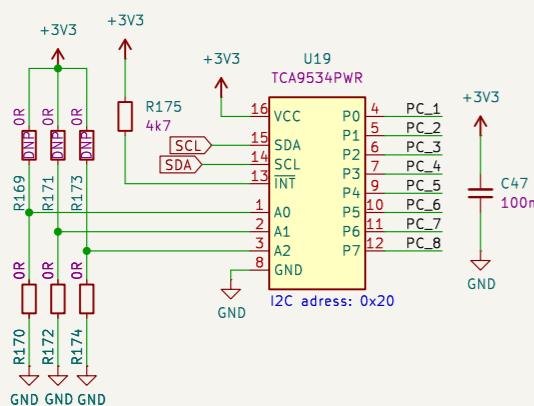
1 2 3 4 5 6 7 8

A

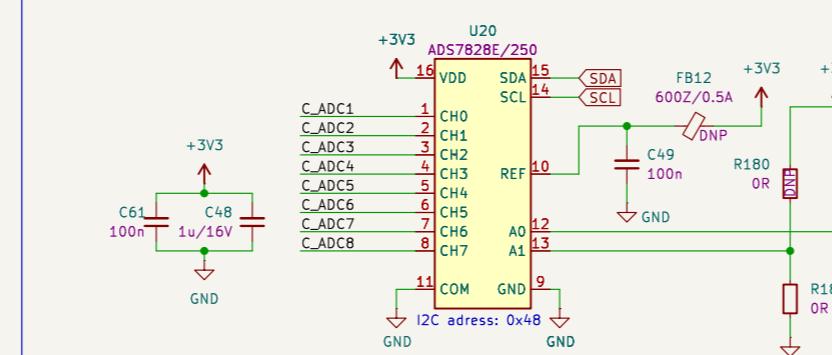
Individual channels for connecting thunderbolt-gpu-adapters



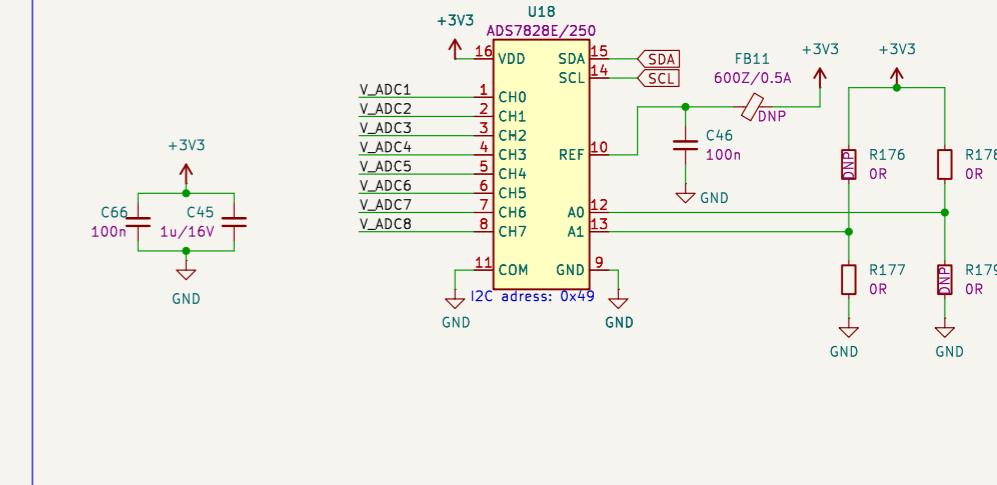
GPIO EXPANDER for power cycling



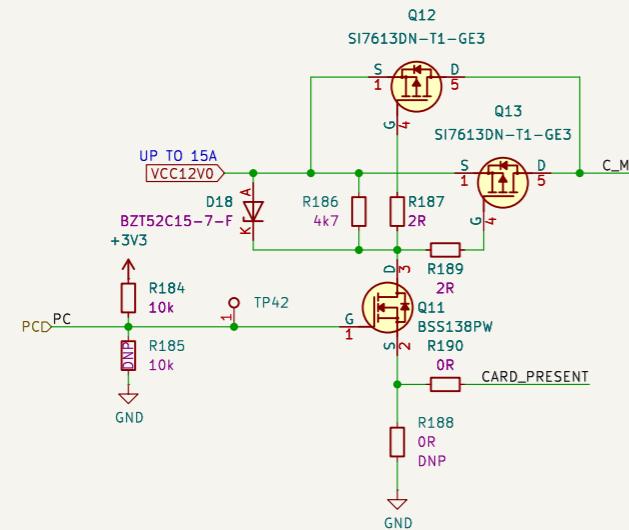
ADC for current measurement



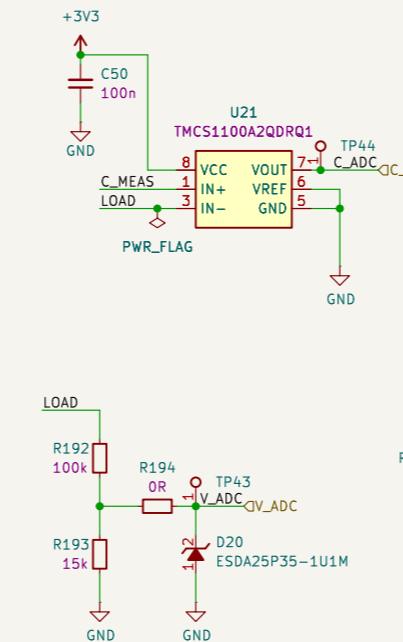
ADC for voltage measurement



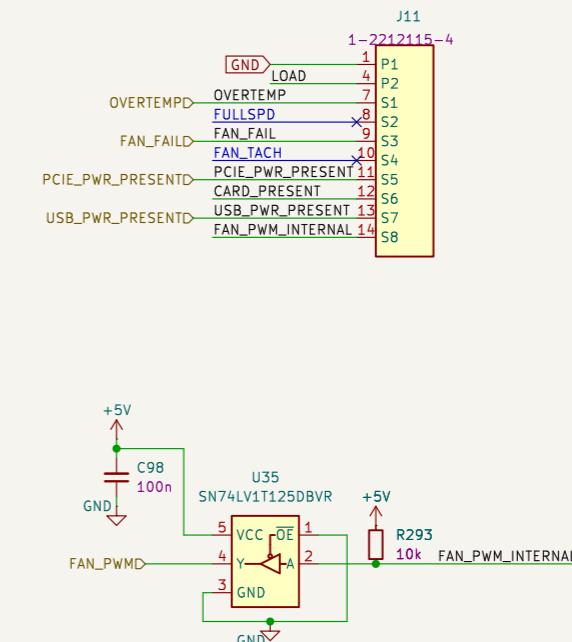
Channel high side switch

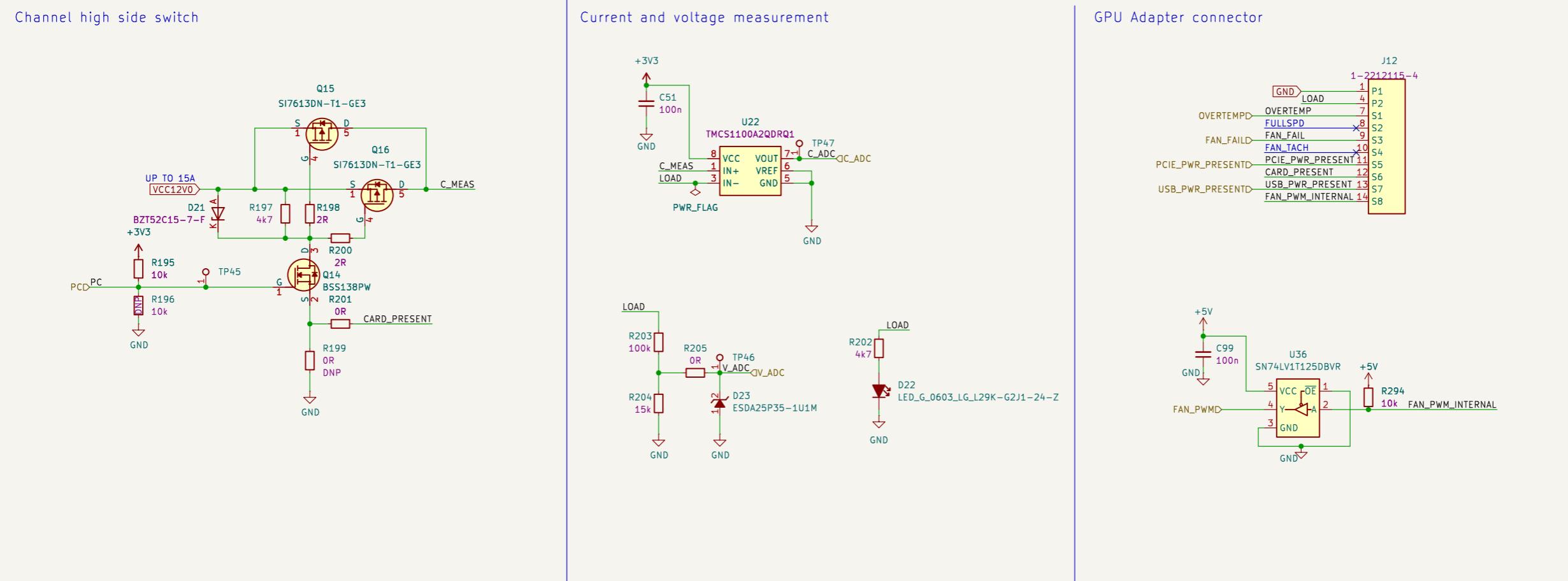


Current and voltage measurement



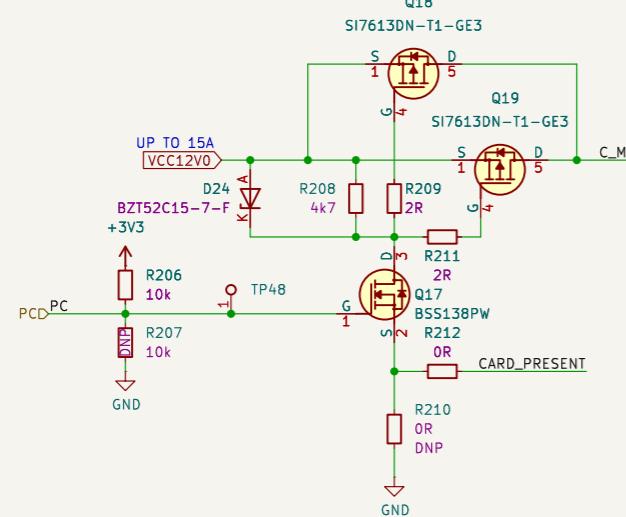
GPU Adapter connector



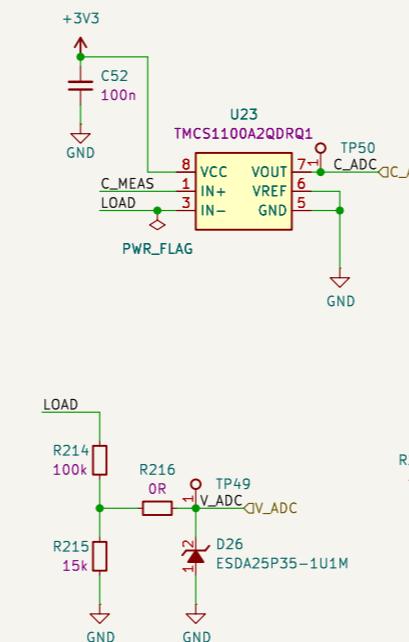


1 2 3 4 5 6 7 8

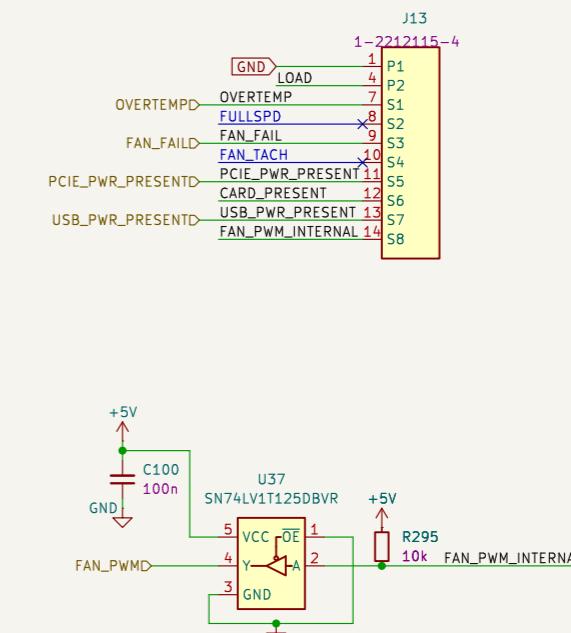
Channel high side switch



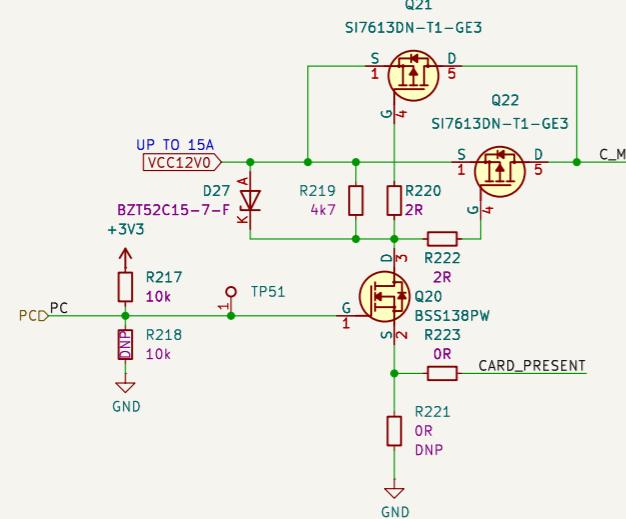
Current and voltage measurement



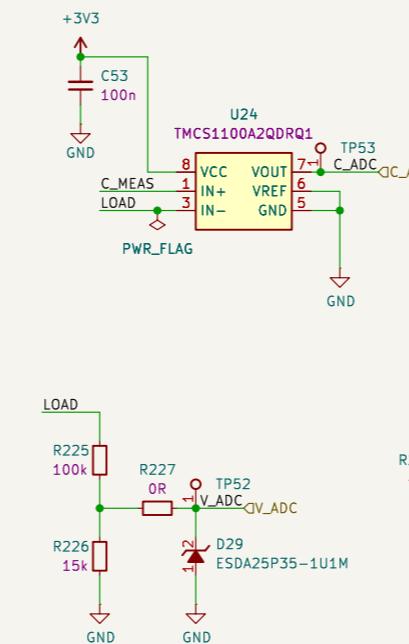
GPU Adapter connector



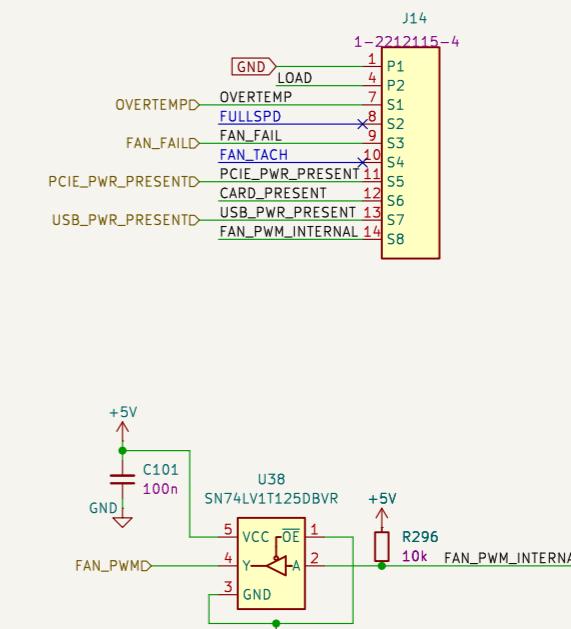
Channel high side switch



Current and voltage measurement



GPU Adapter connector



A

A

B

B

C

C

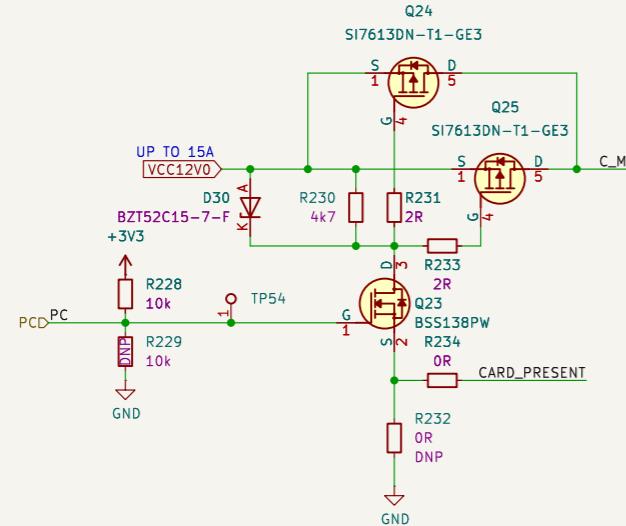
D

D

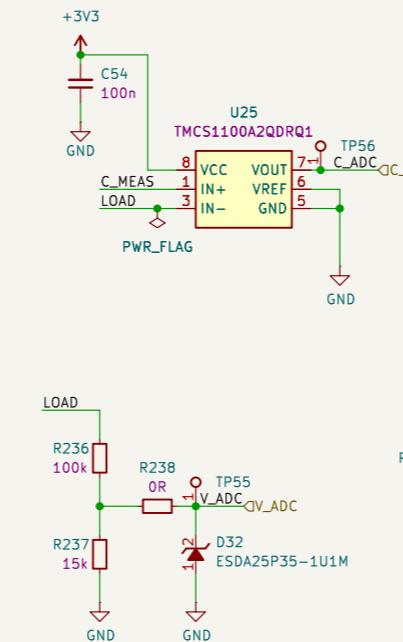
E

E

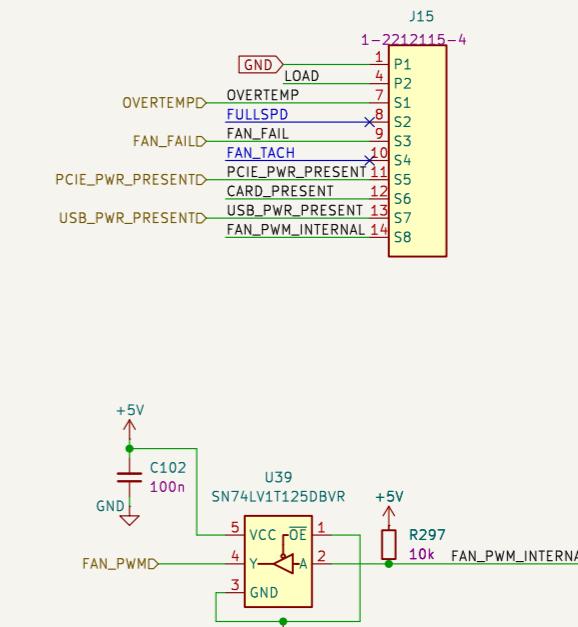
Channel high side switch



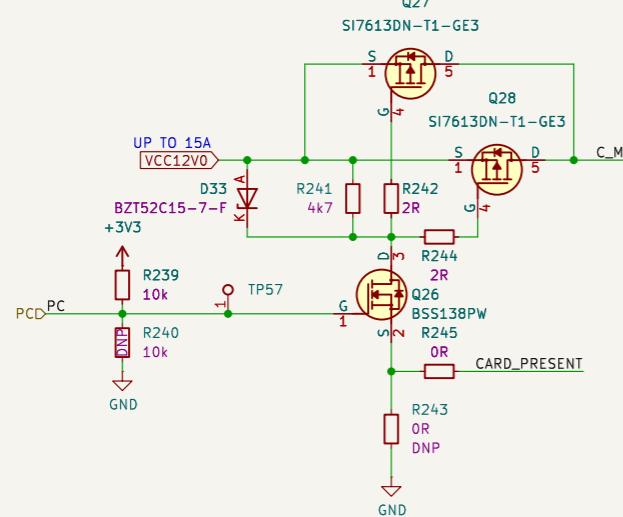
Current and voltage measurement



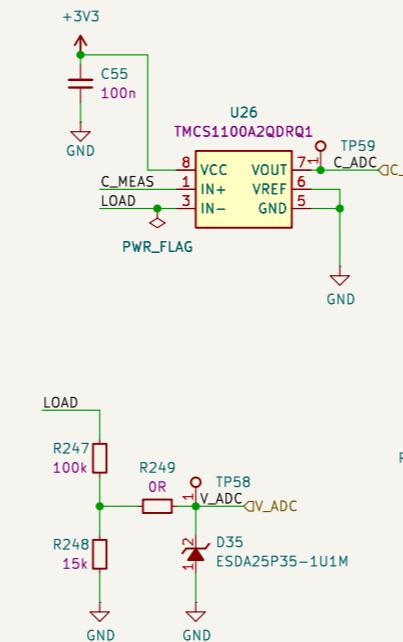
GPU Adapter connector



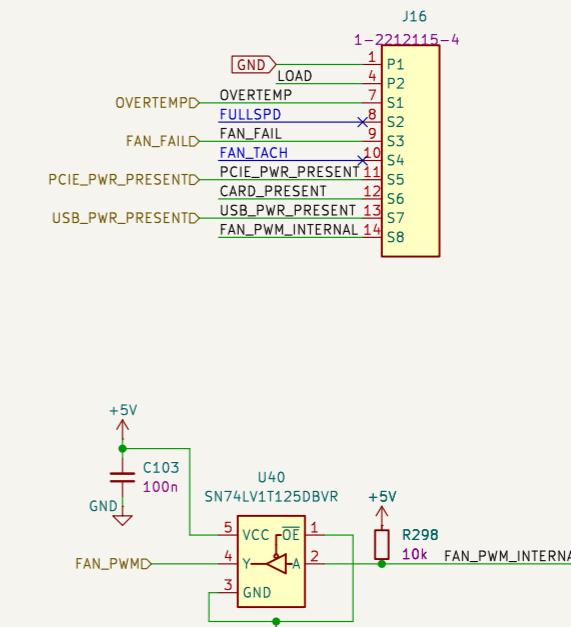
Channel high side switch



Current and voltage measurement



GPU Adapter connector



A

A

B

B

C

C

D

D

E

E