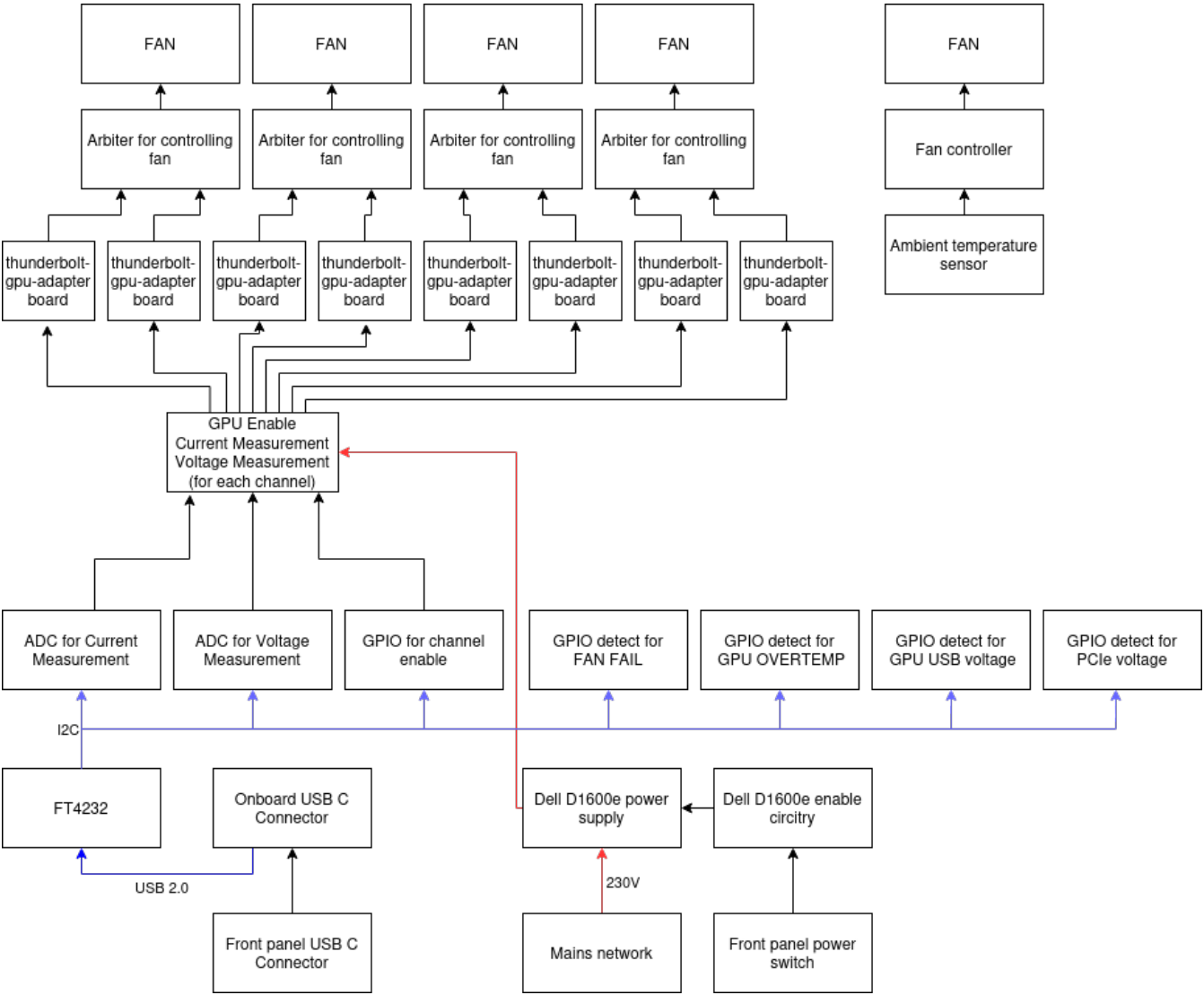


GPU Cluster Backplane



Connectors



File: connectors.kicad_sch

Output control and data acquisition



File: output-control.kicad_sch

Fans control



File: fans-control.kicad_sch

Debug signals



File: debug-signals.kicad_sch

Power



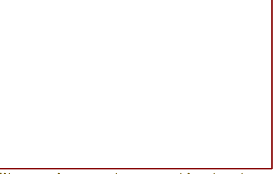
File: power.kicad_sch

Mechanical



File: mechanical.kicad_sch

Environment sensor



File: environment_sensor.kicad_sch



Logo N1
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Logo N2
oshw_logo

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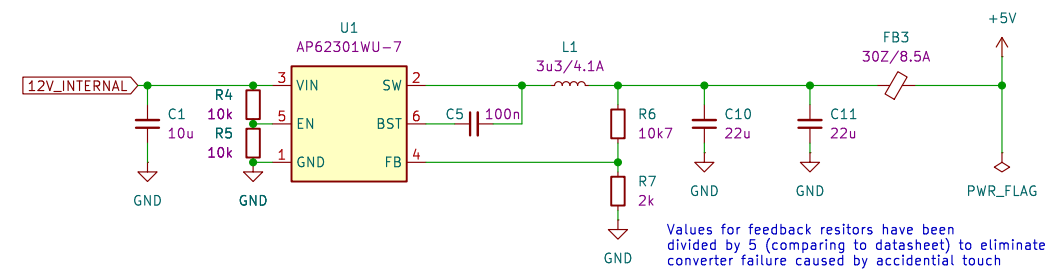
Sheet: /
File: gpu-cluster-backplane.kicad_sch

Title: GPU Cluster Backplane

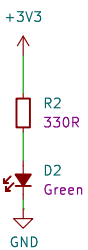
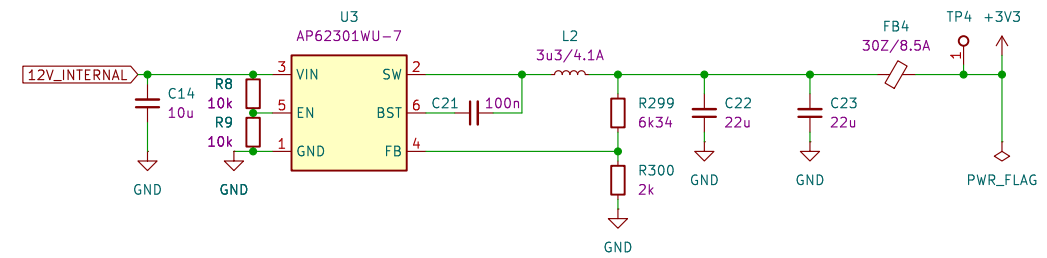
Size: A3 Date: 2024-07-10
KiCad E.D.A. 9.0.6

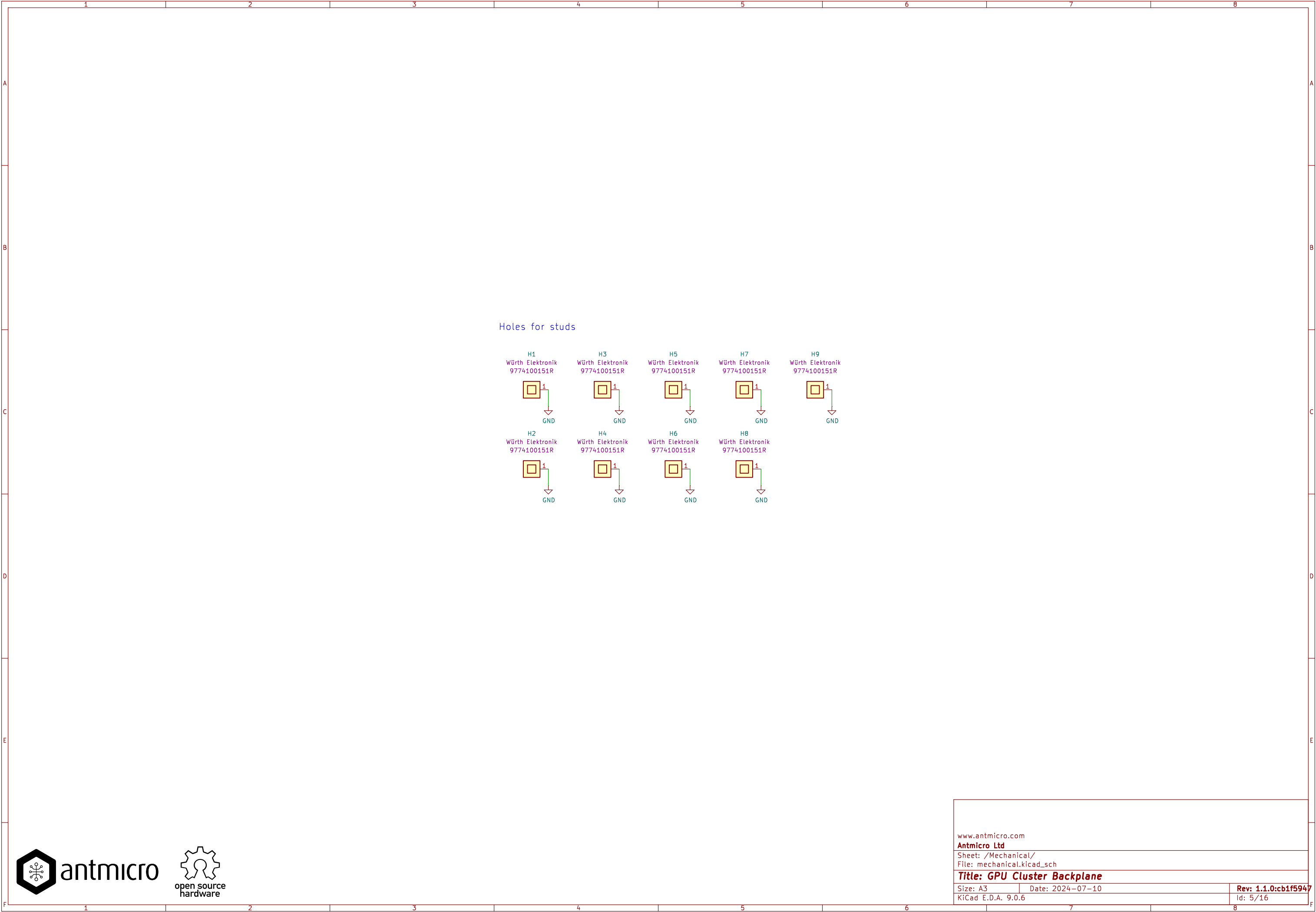
Rev: 1.1.0:cb1f5947
Id: 1/16

5V0 DC/DC Converter

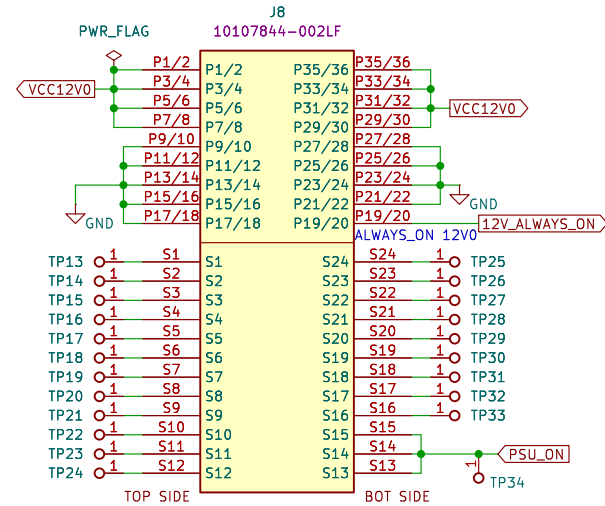


3V3 DC/DC Converter

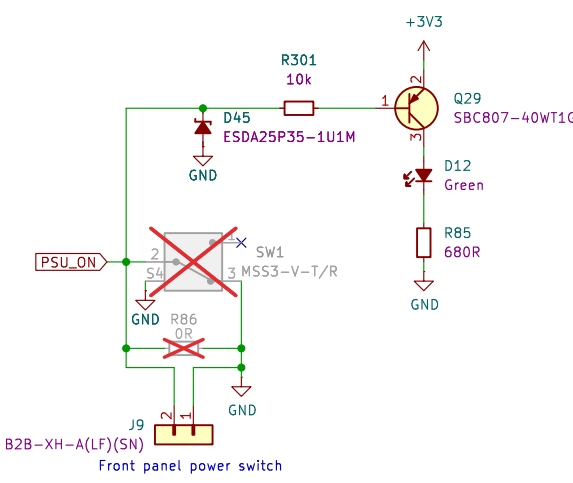




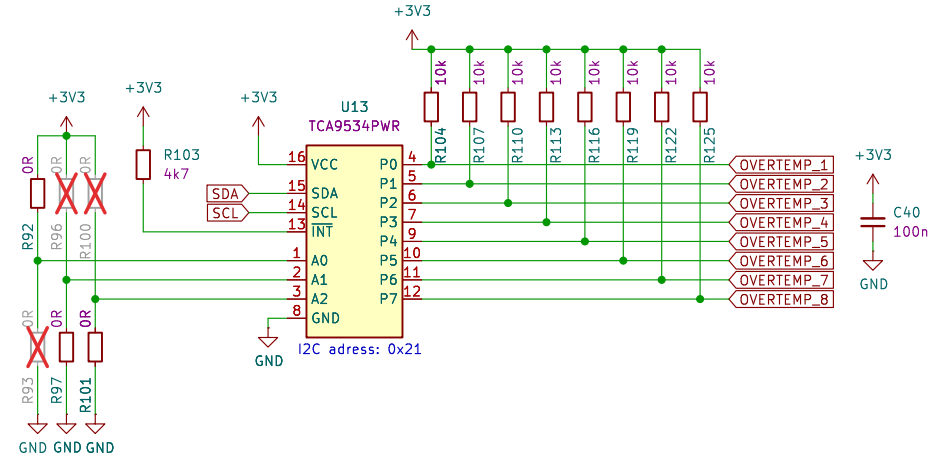
Dell D1600e PSU connector



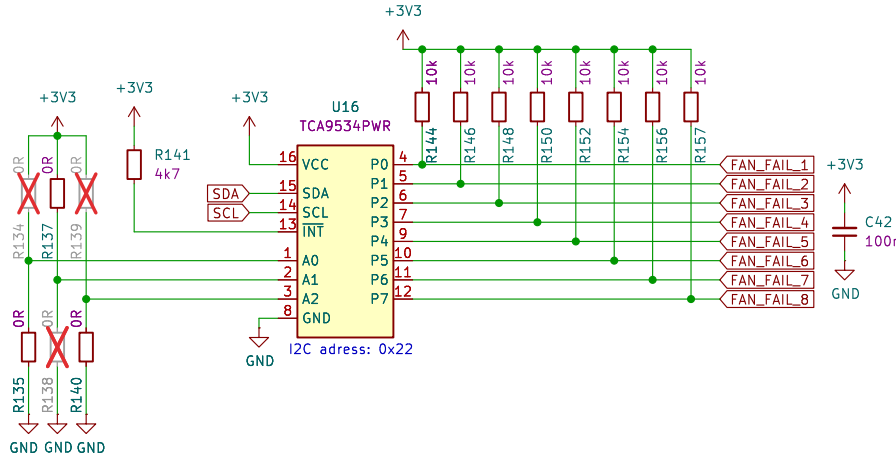
Power switch connector



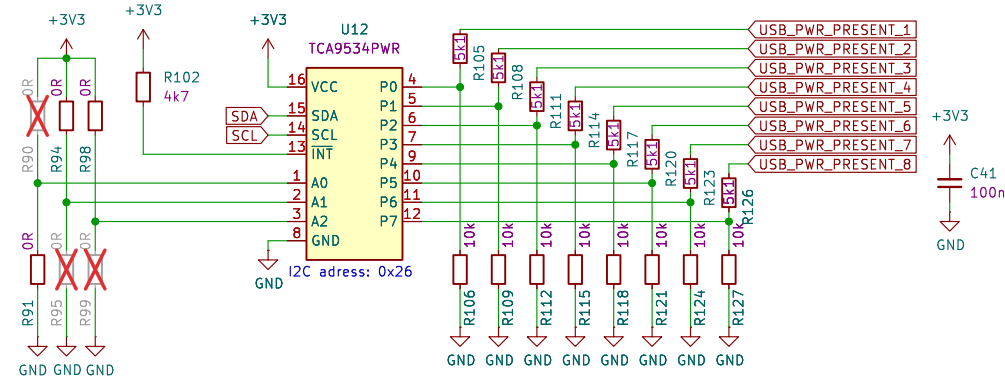
GPIO EXPANDER for OVERTEMP



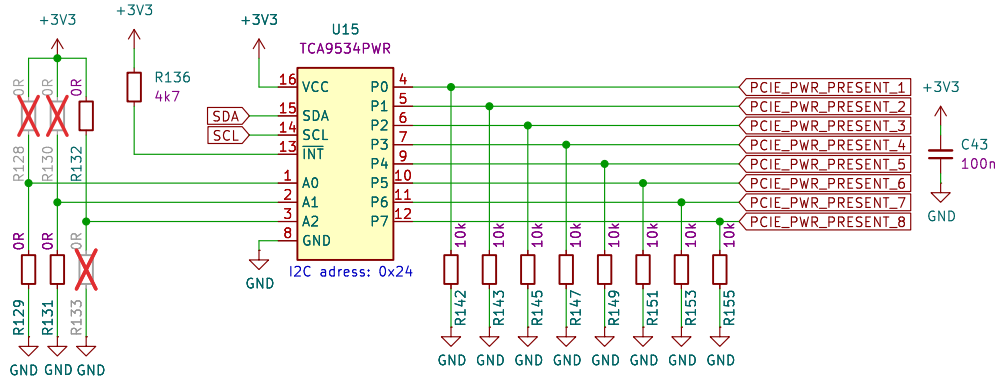
GPIO EXPANDER for FAN_FAIL



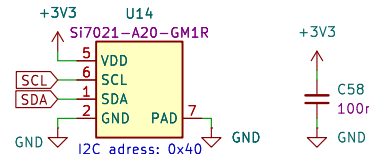
GPIO EXPANDER for USB_PWR_PRESENT



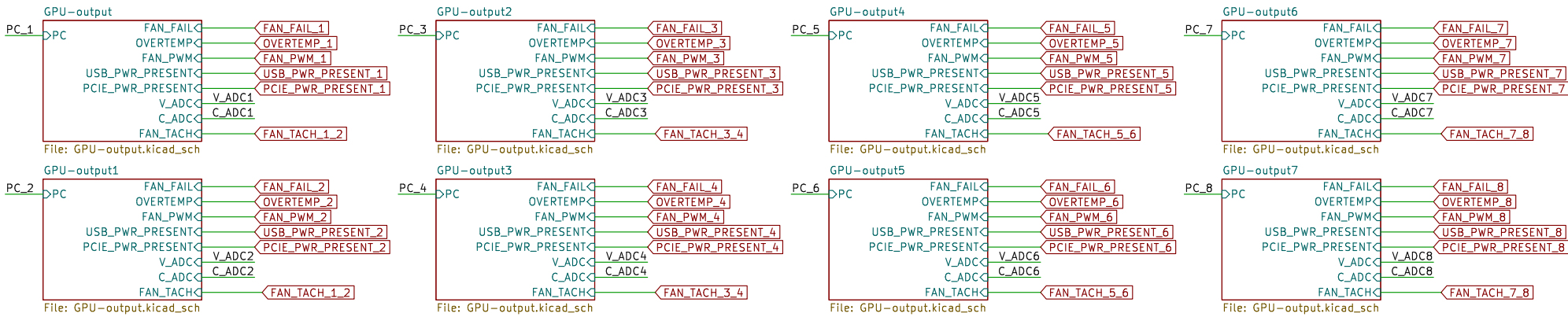
GPIO EXPANDER for PCIE_PWR_PRESENT



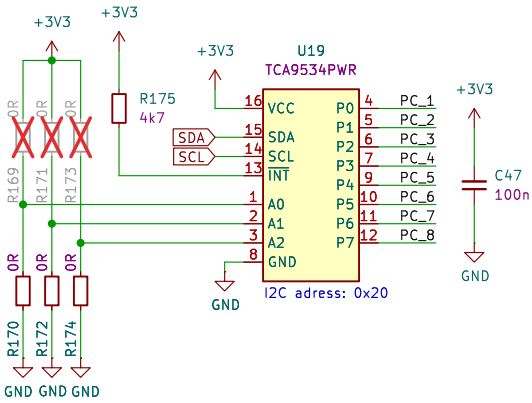
Temperature and humidity sensor



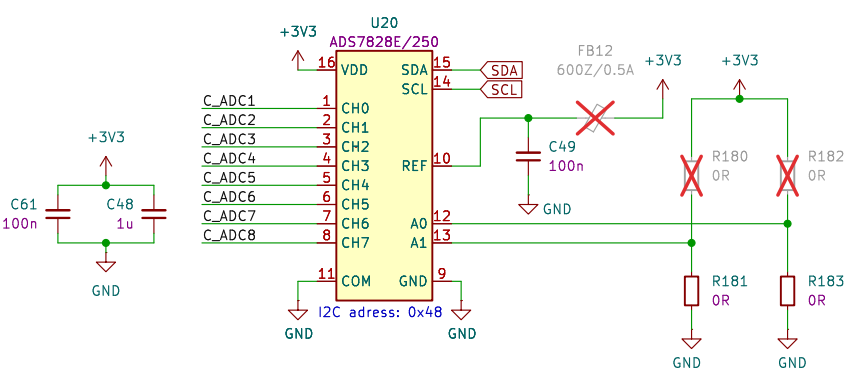
Individual channels for connecting thunderbolt-gpu-adapters



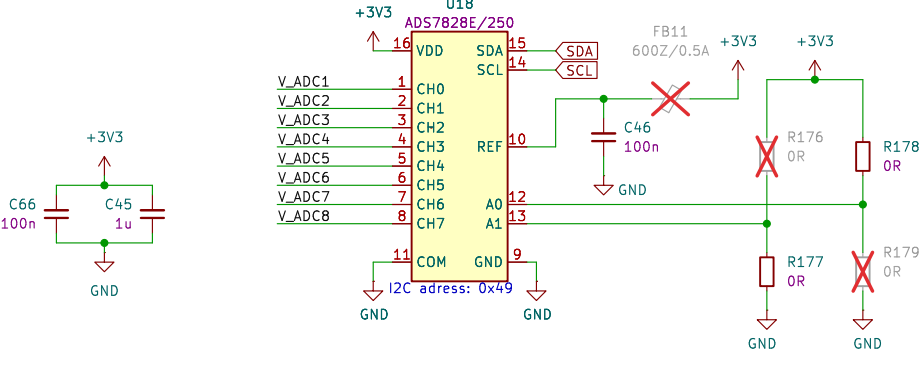
GPIO EXPANDER for power cycling



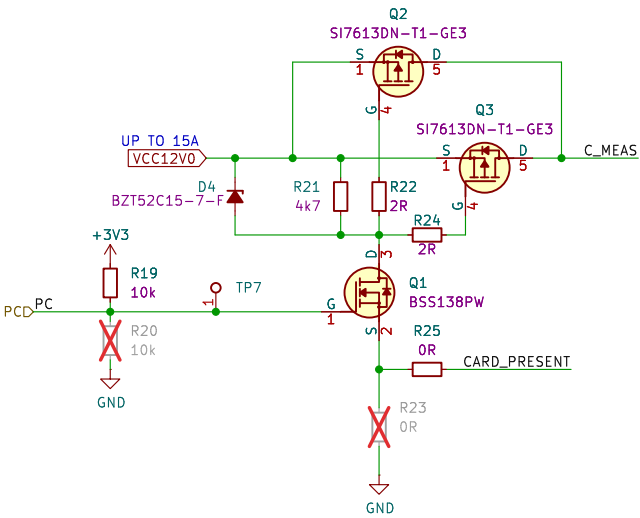
ADC for current measurement



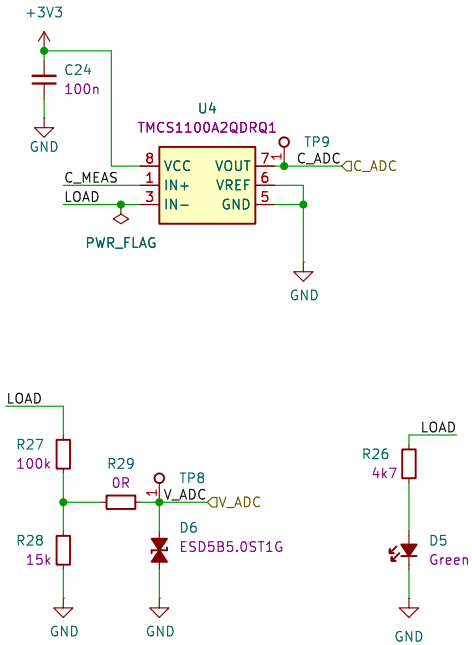
ADC for voltage measurement



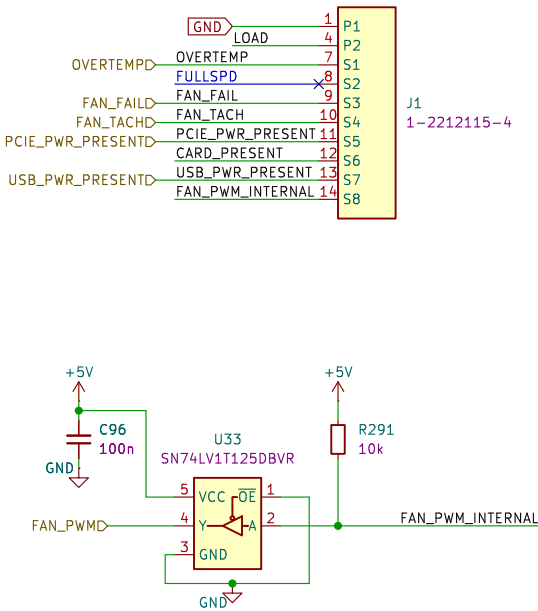
Channel high side switch



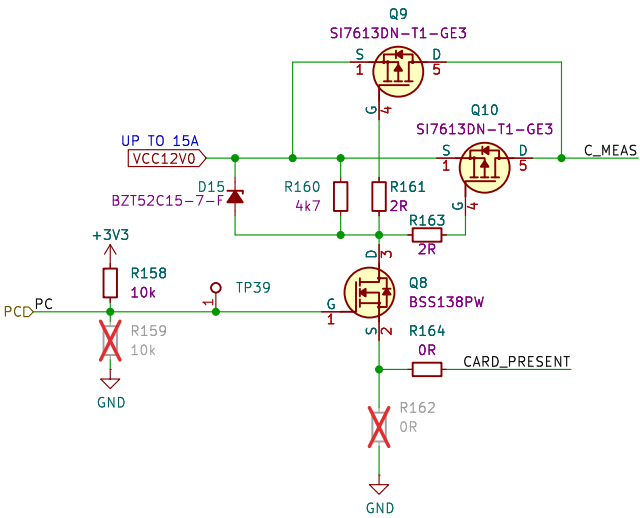
Current and voltage measurement



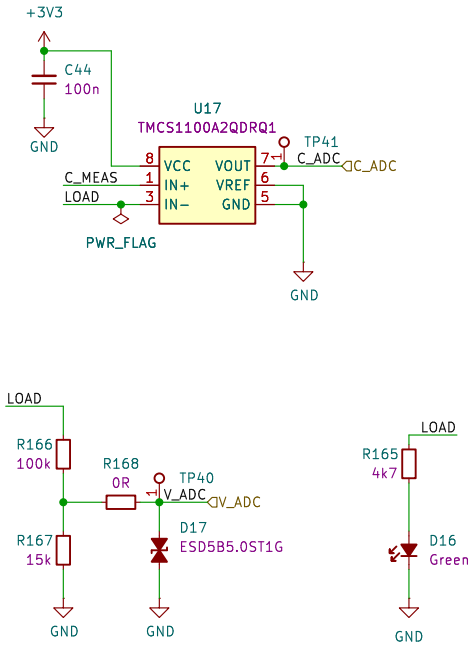
GPU Adapter connector



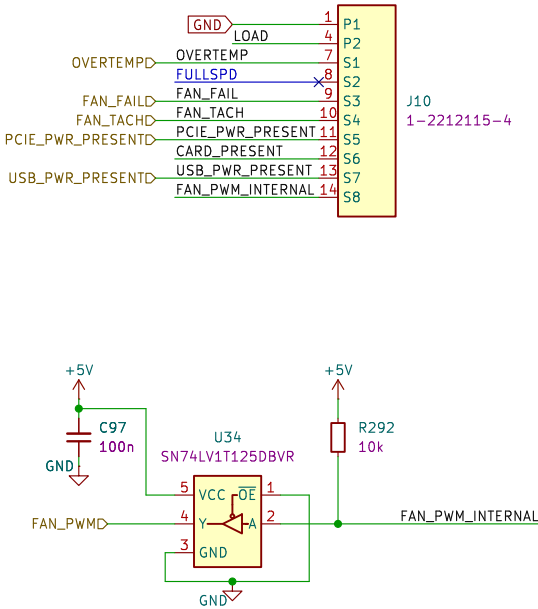
Channel high side switch



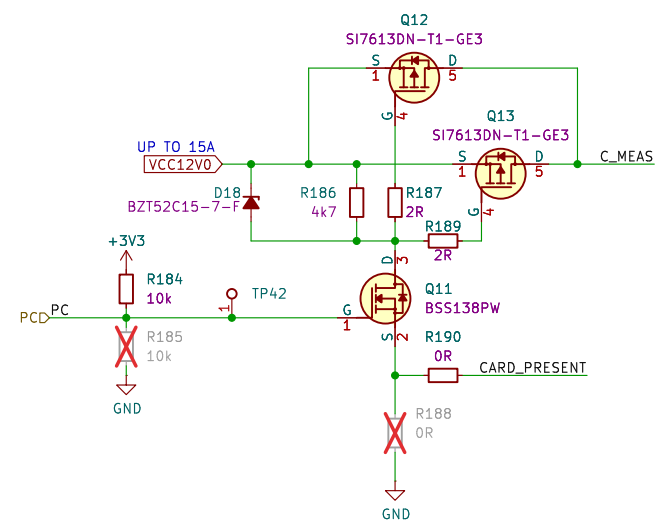
Current and voltage measurement



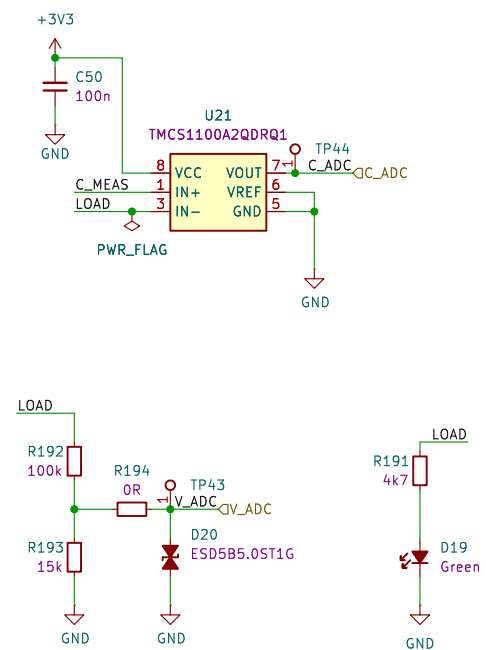
GPU Adapter connector



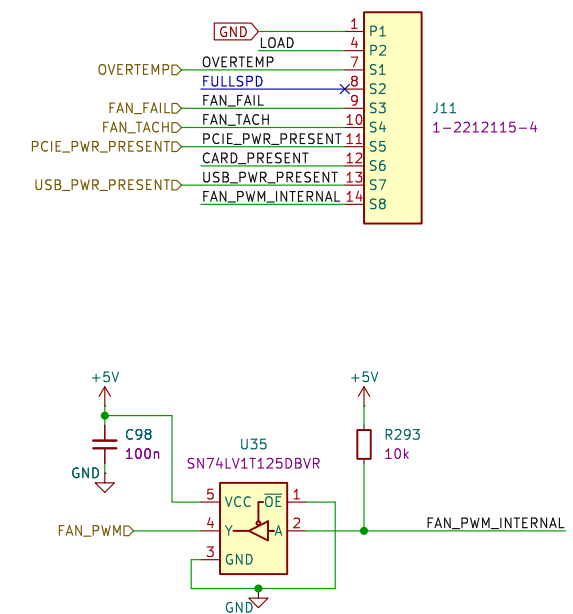
Channel high side switch



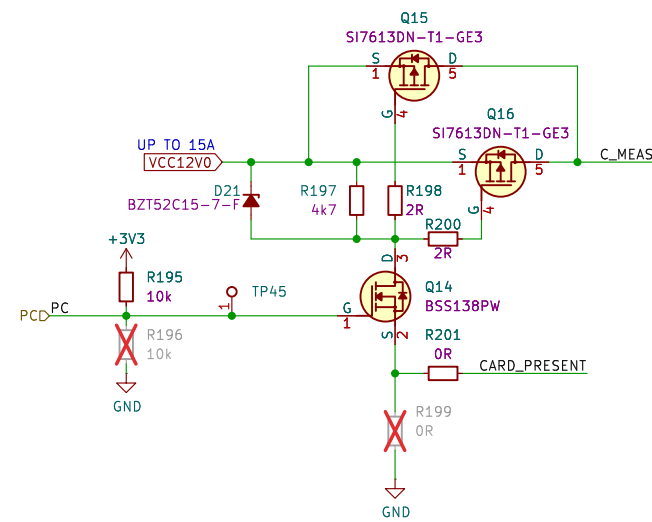
Current and voltage measurement



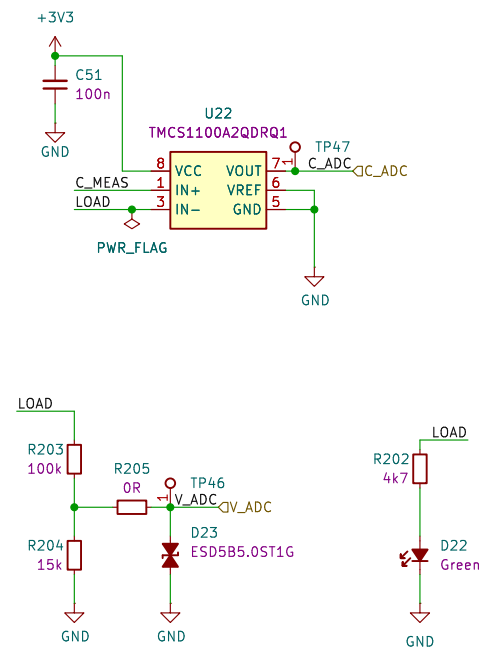
GPU Adapter connector



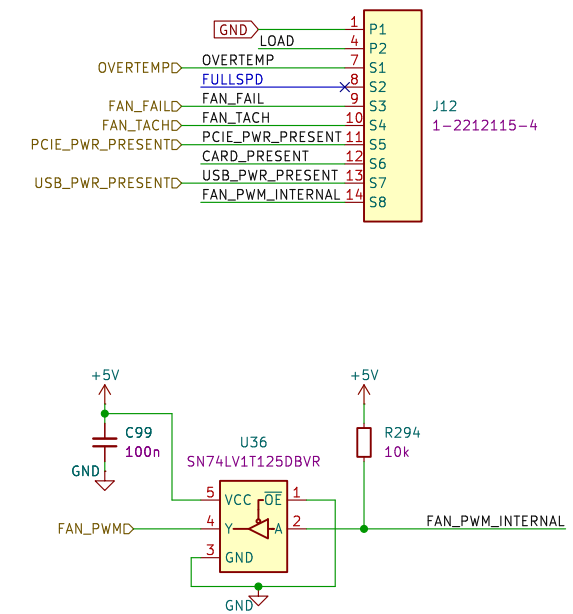
Channel high side switch



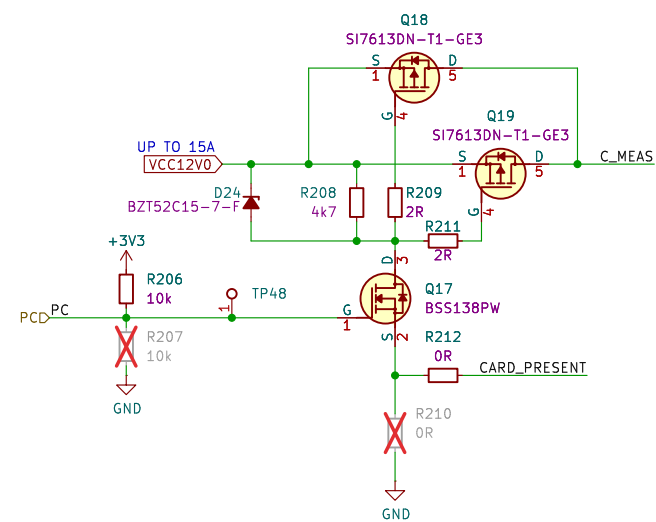
Current and voltage measurement



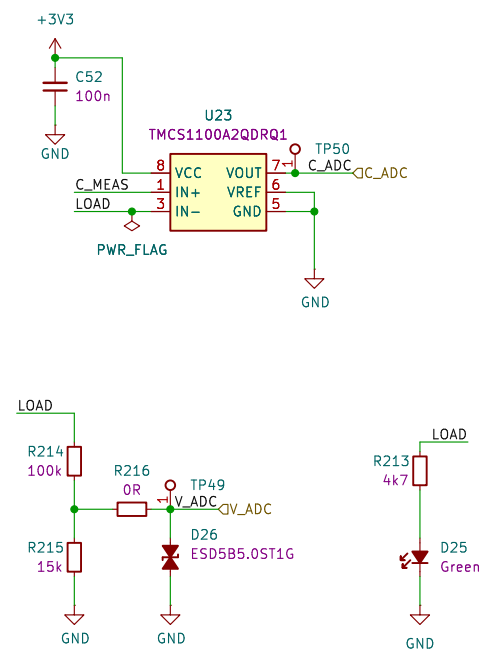
GPU Adapter connector



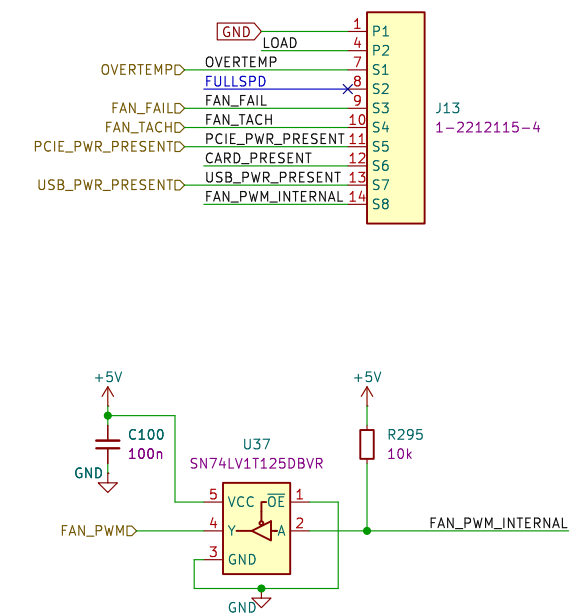
Channel high side switch



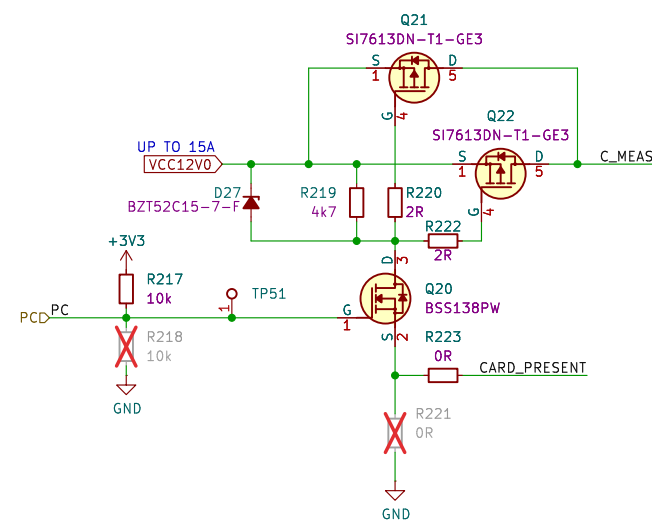
Current and voltage measurement



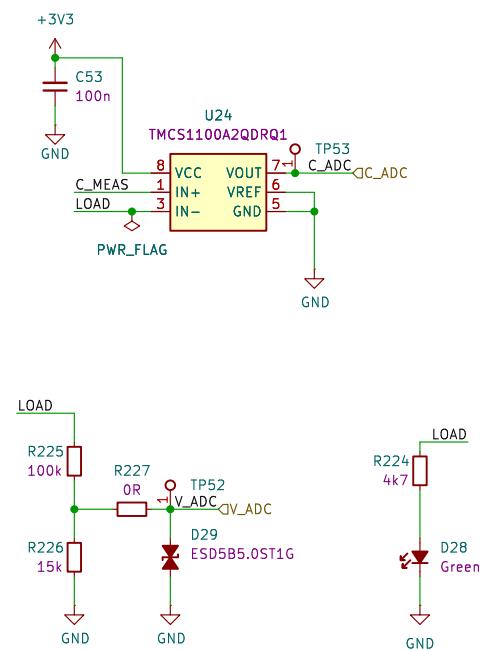
GPU Adapter connector



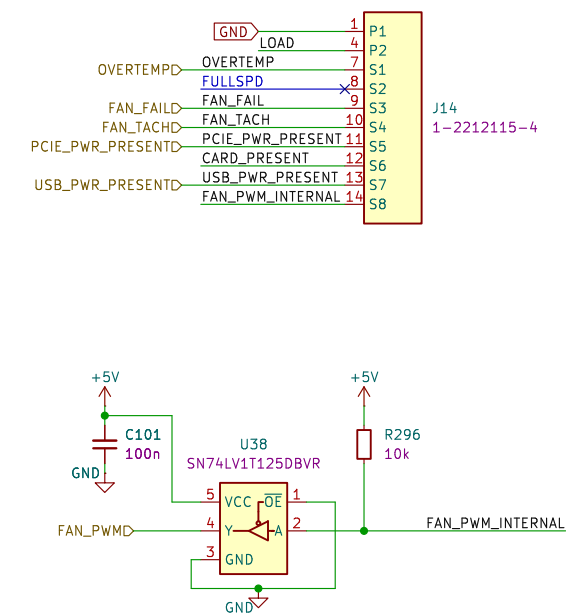
Channel high side switch



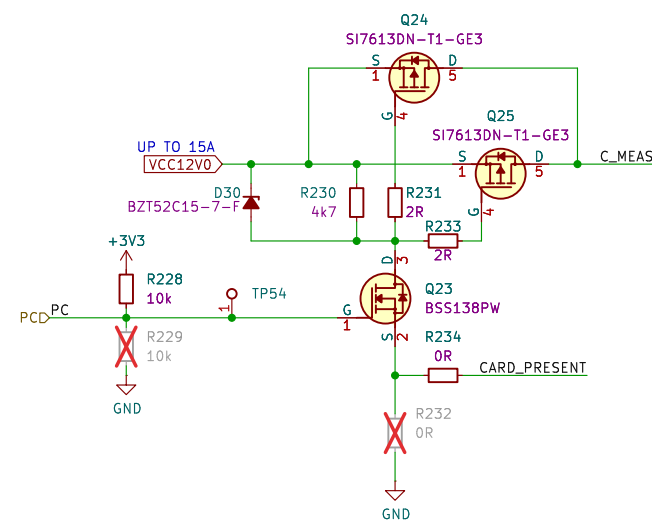
Current and voltage measurement



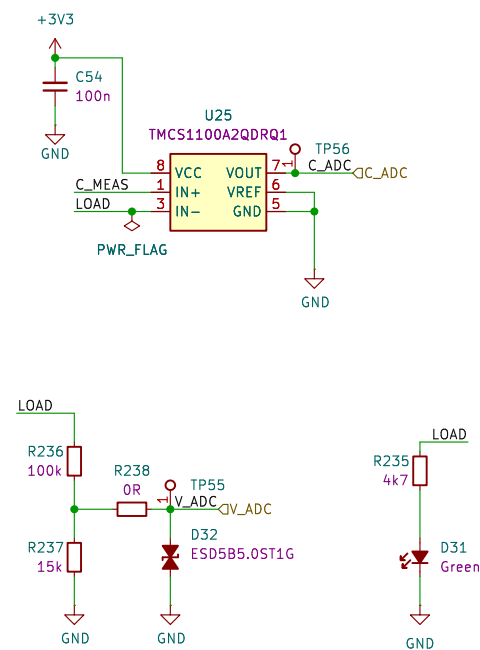
GPU Adapter connector



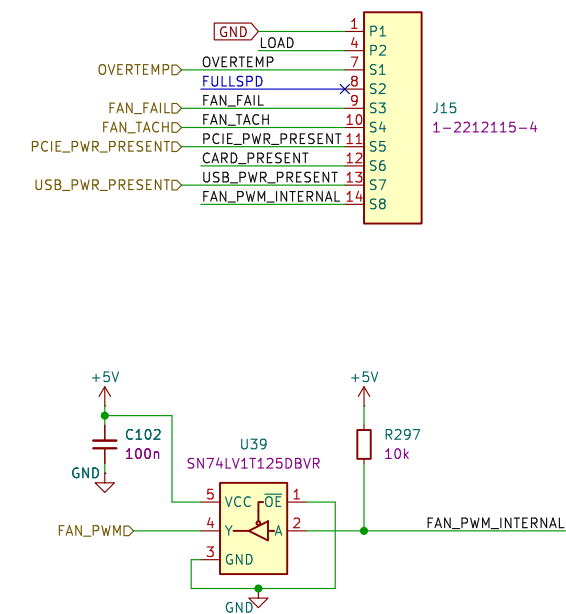
Channel high side switch



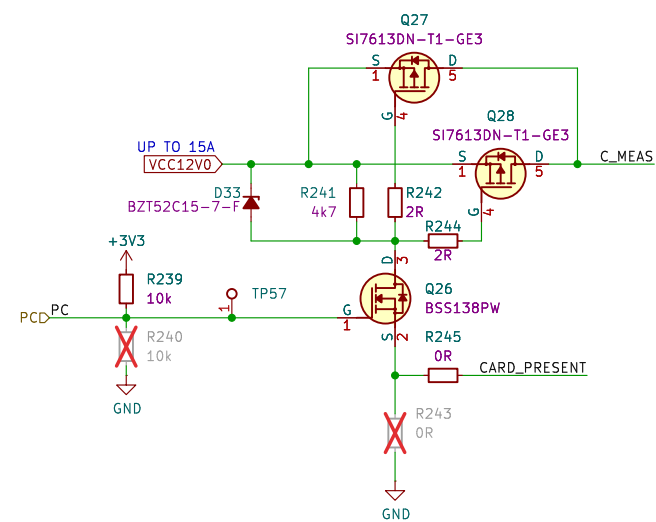
Current and voltage measurement



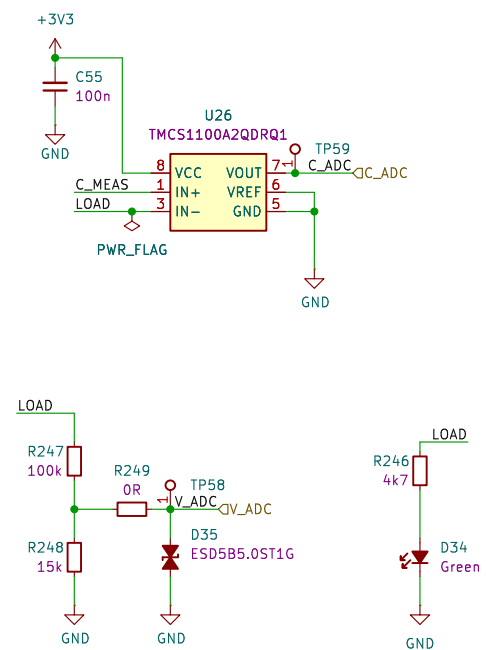
GPU Adapter connector



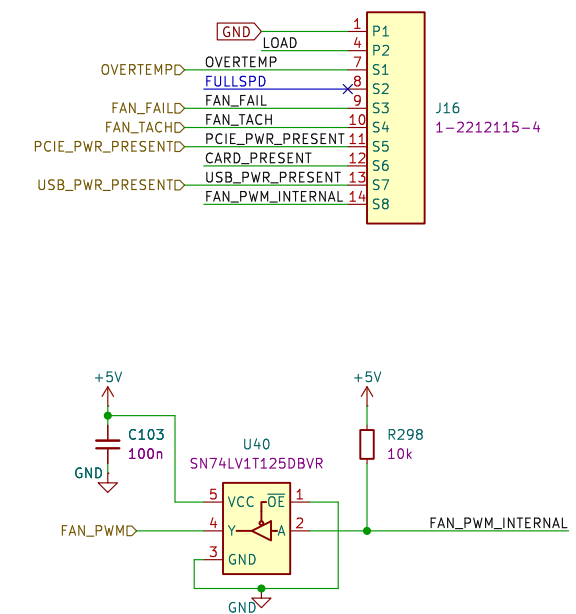
Channel high side switch



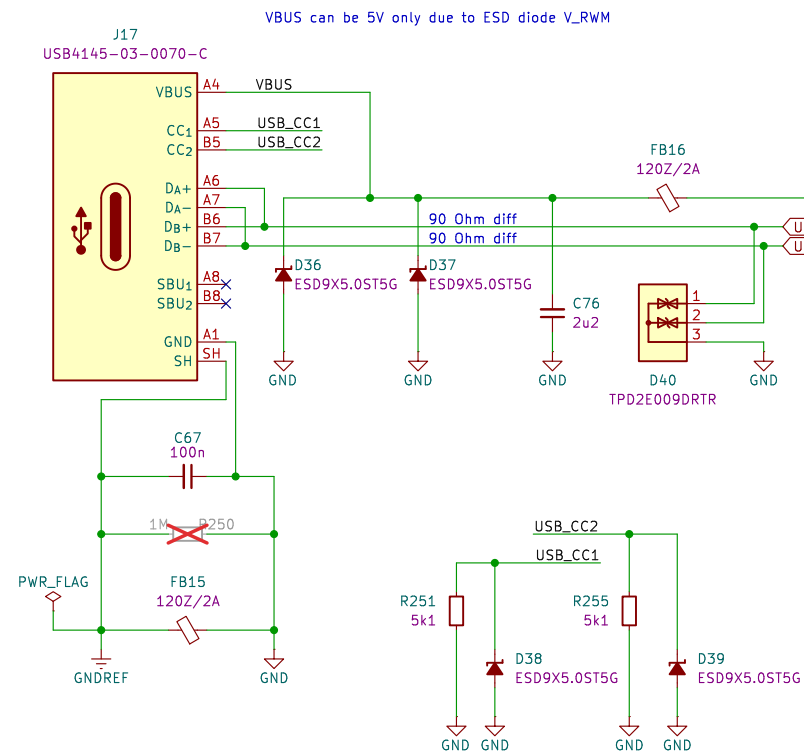
Current and voltage measurement



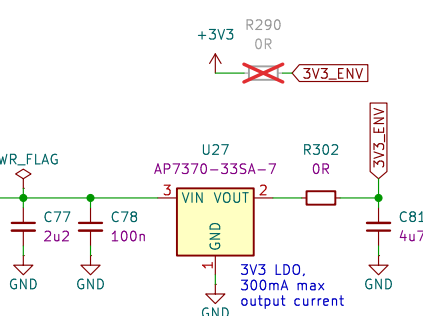
GPU Adapter connector



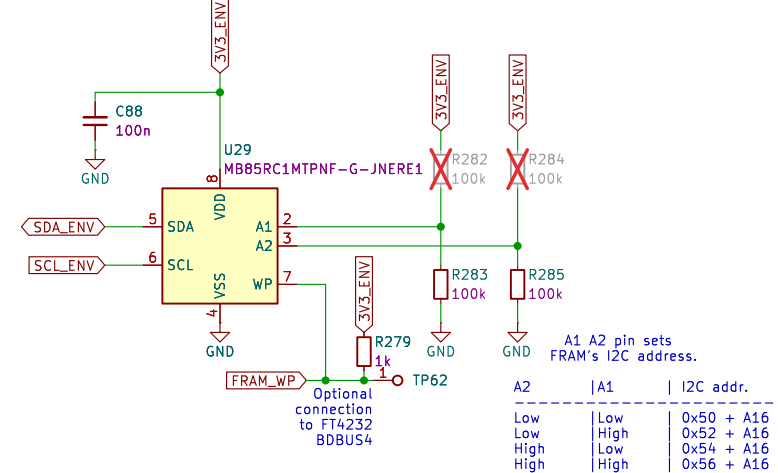
USB-C 2.0 Data & Power connector



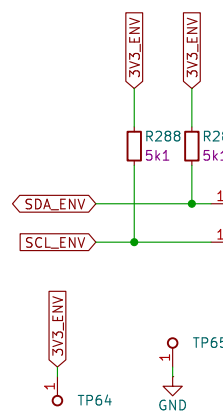
3V3 Regulator



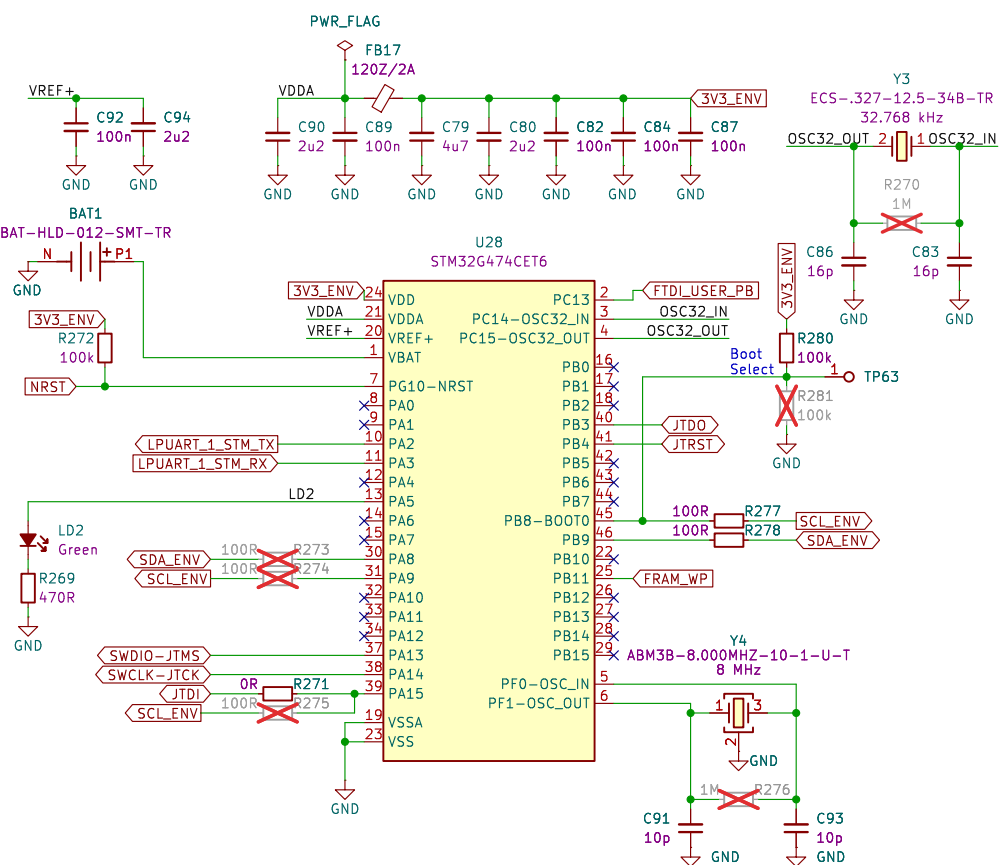
FeRAM I2C Memory



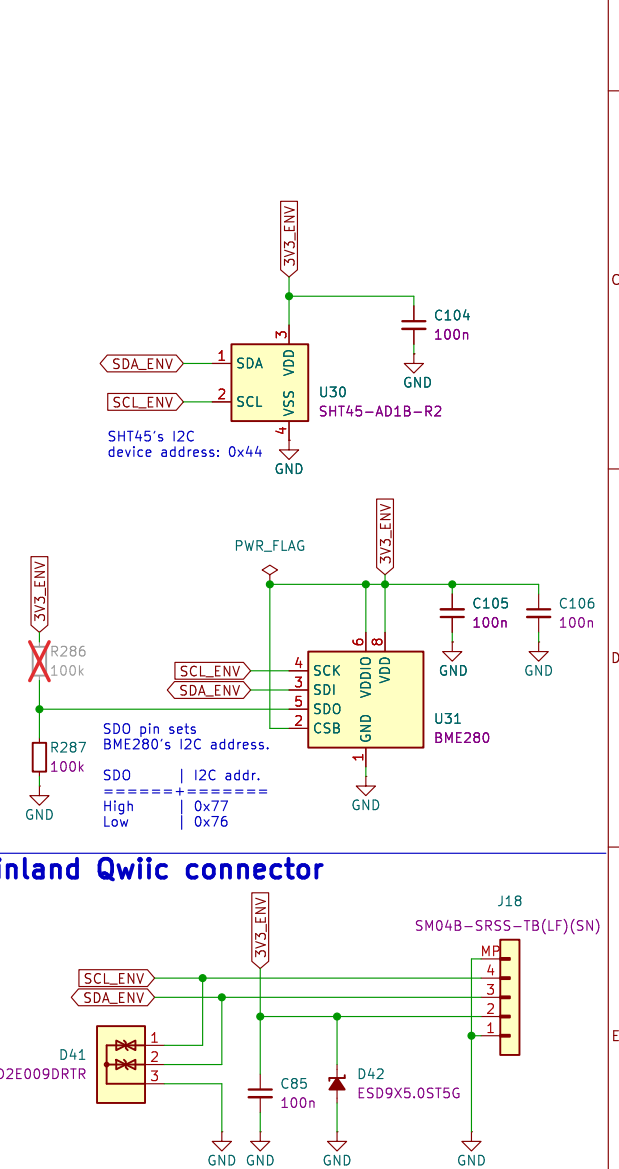
I2C pull-ups



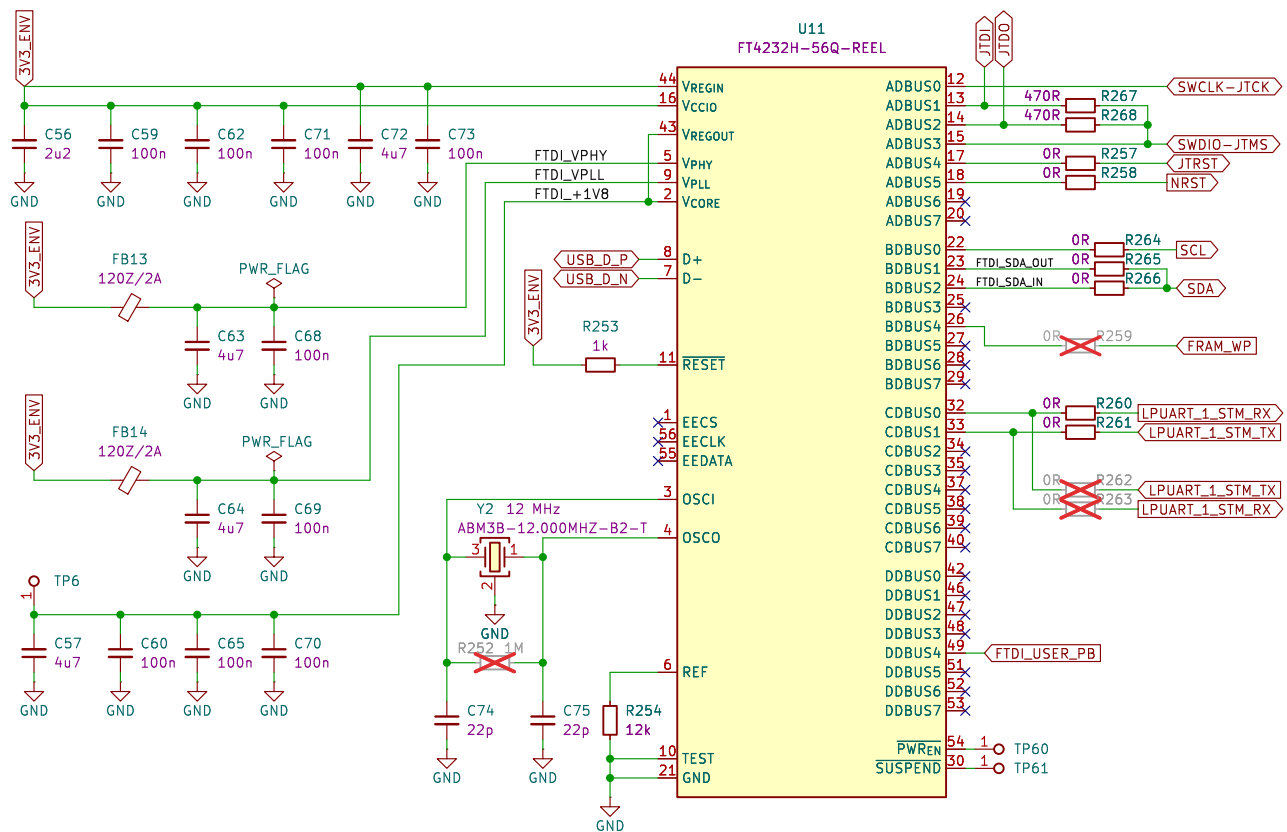
STM32 Microcontroller



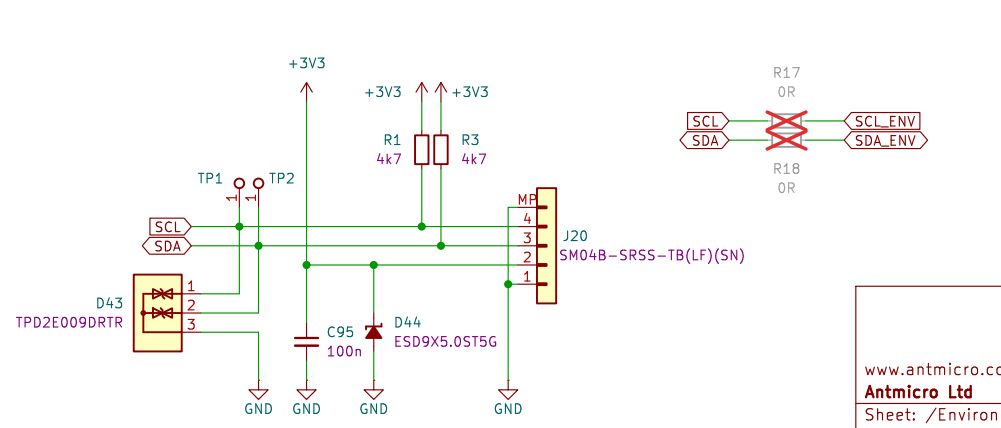
SENSOR ISLAND



FTDI USB-UART/I2C/JTAG Bridge



Backplane I2C Connector



Mainland Qwiic connector

