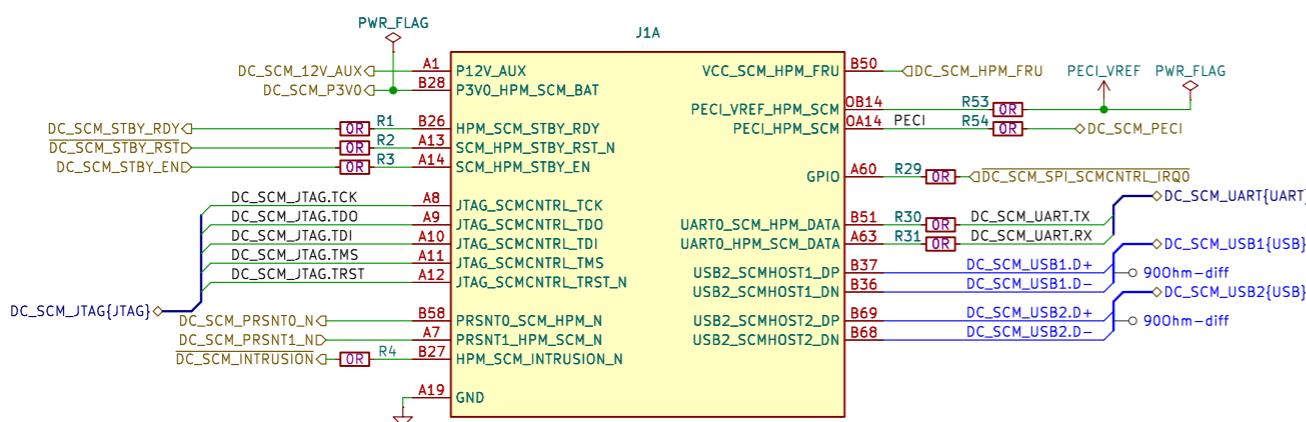
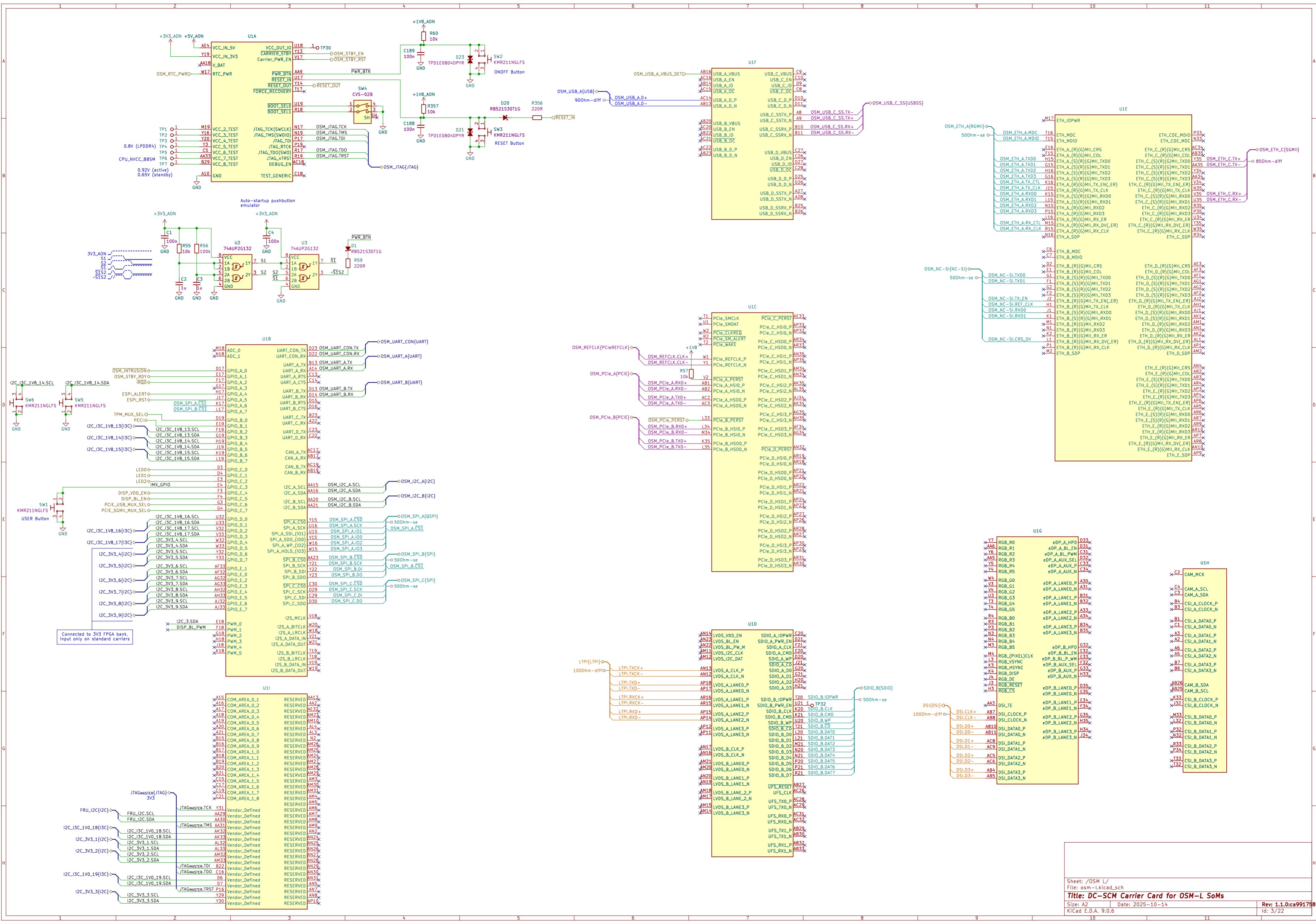


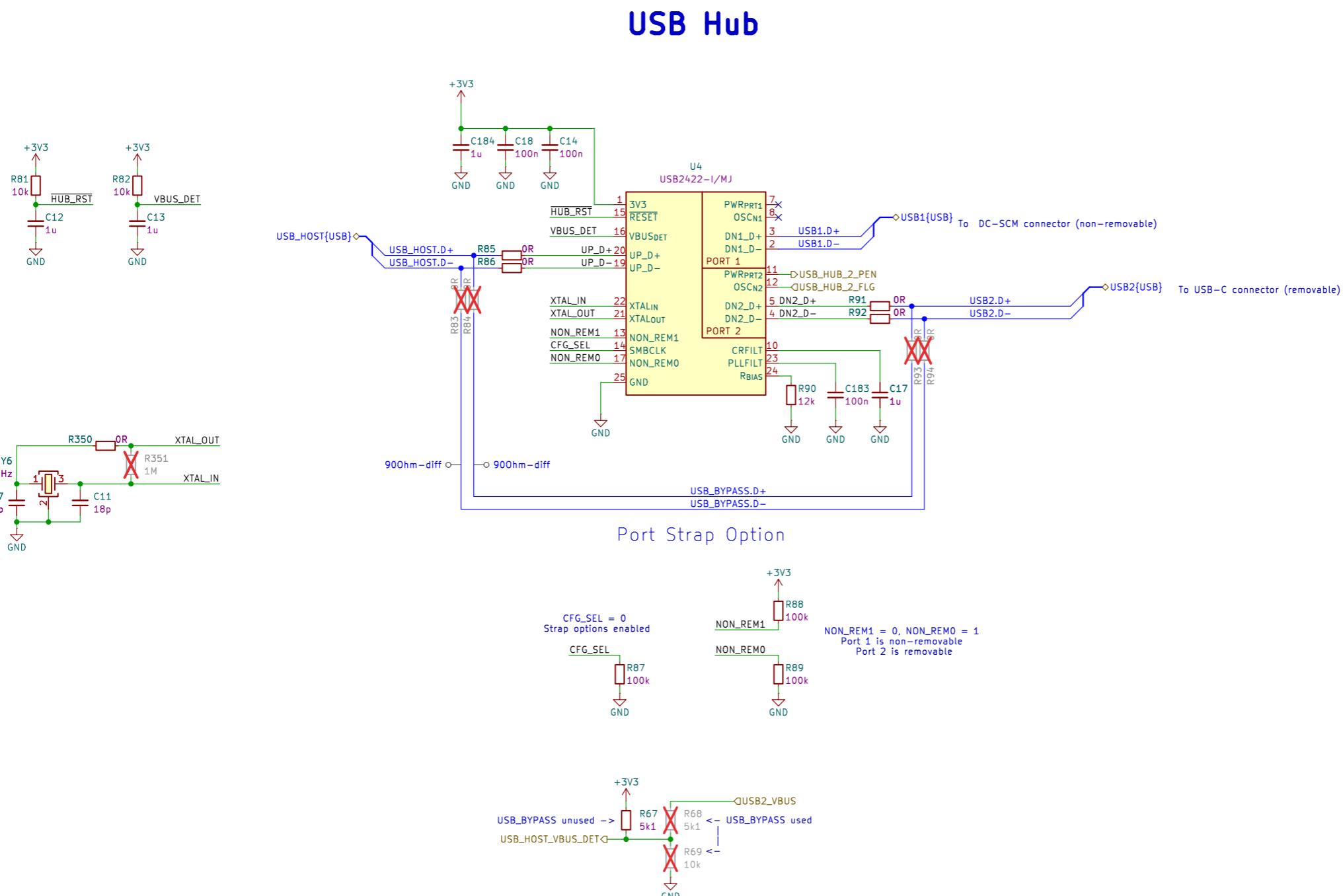
A

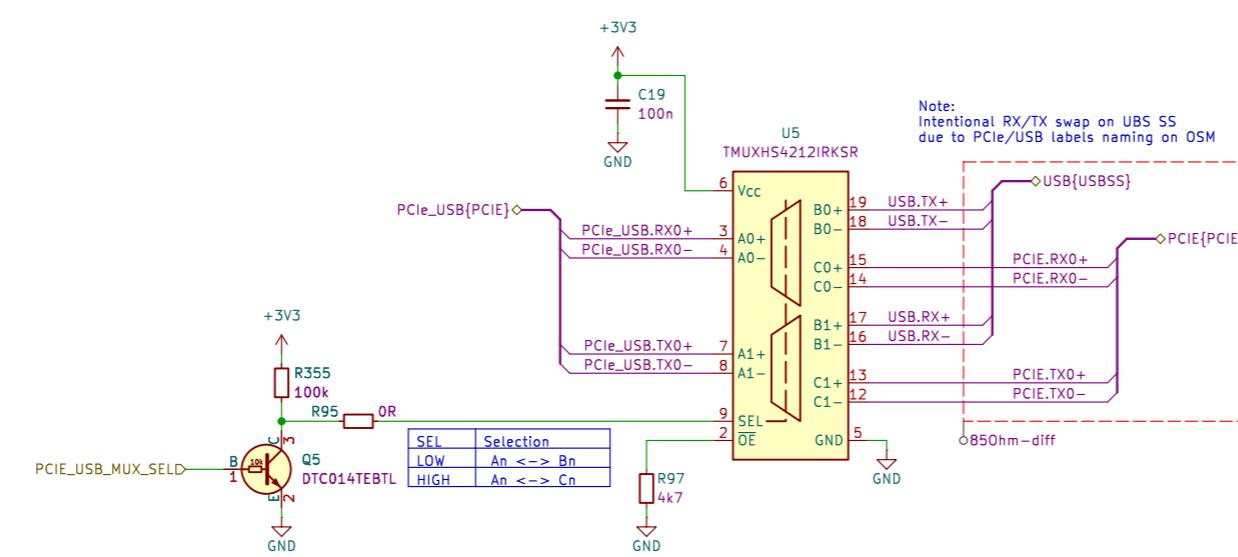


B







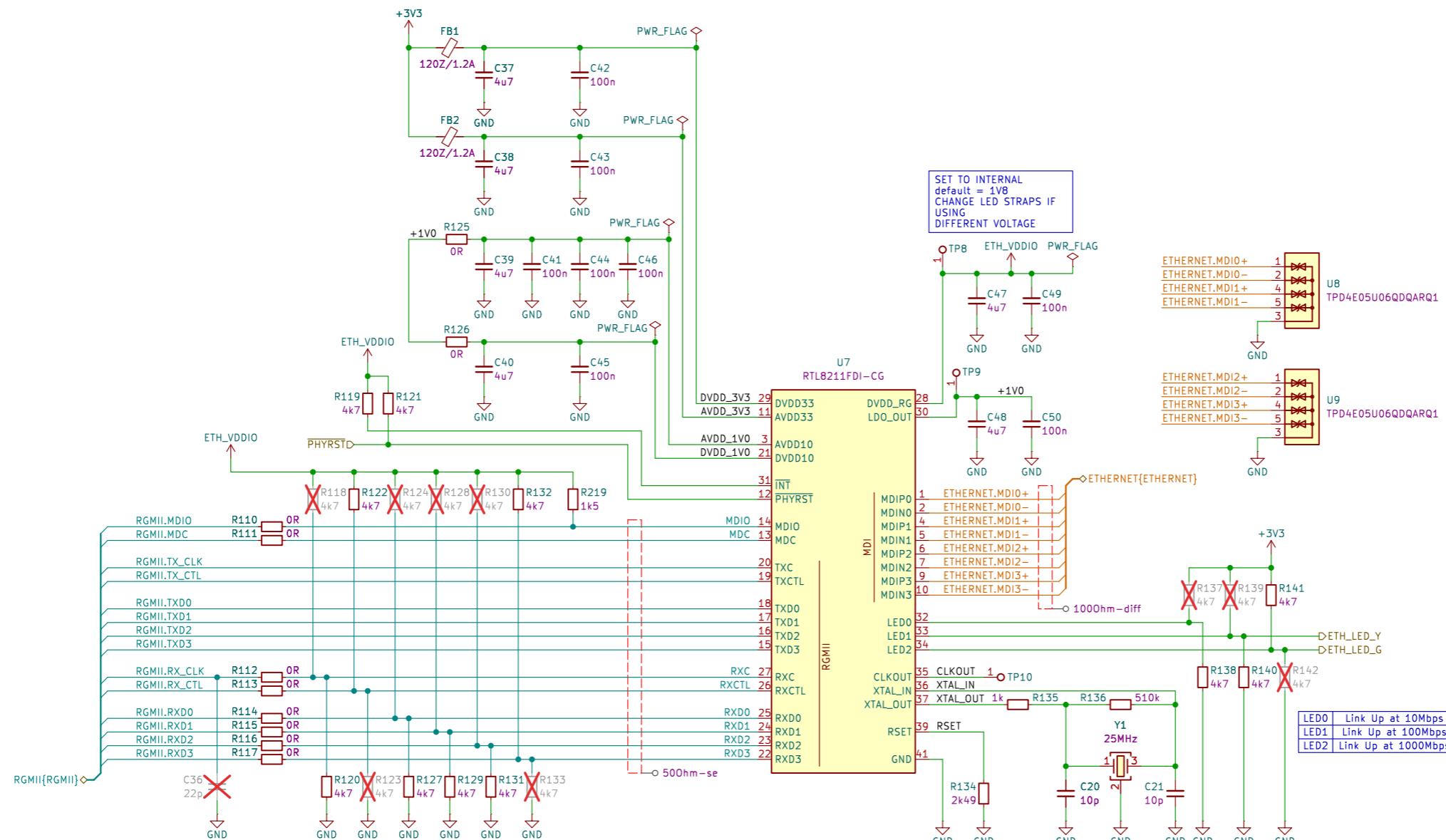


Sheet: /PCIe - USB Mux/
File: pcie-usb-mux.kicad_sch

Title: DC-SCM Carrier Card for OSM-L SoMs

Size: A3 | Date: 2025-10-14
KiCad E.D.A. 9.0.6

Rev: 1.1.0:ca991758 | Id: 5/22



Sheet: /Ethernet PHY/
File: eth-phy.kicad_sch

Title: DC-SCM Carrier Card for OSM-L SoMs

Size: A3 Date: 2025-10-14
KiCad E.D.A. 9.0.6

Rev: 1.1.0:ca991758
Id: 7/22

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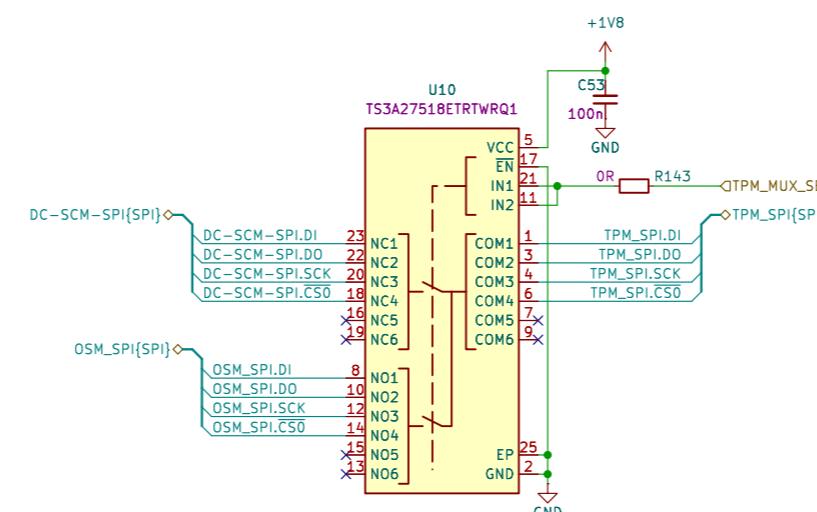
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Sheet: /TPM_Mux/
File: tpm_spi_mux.kicad_sch

Title: DC-SCM Carrier Card for OSM-L SoMs

Size: A3 | Date: 2025-10-14
KiCad E.D.A. 9.0.6

Rev: 1.1.0:ca991758 | Id: 8/22

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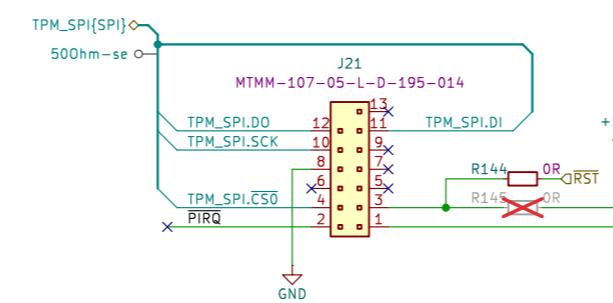
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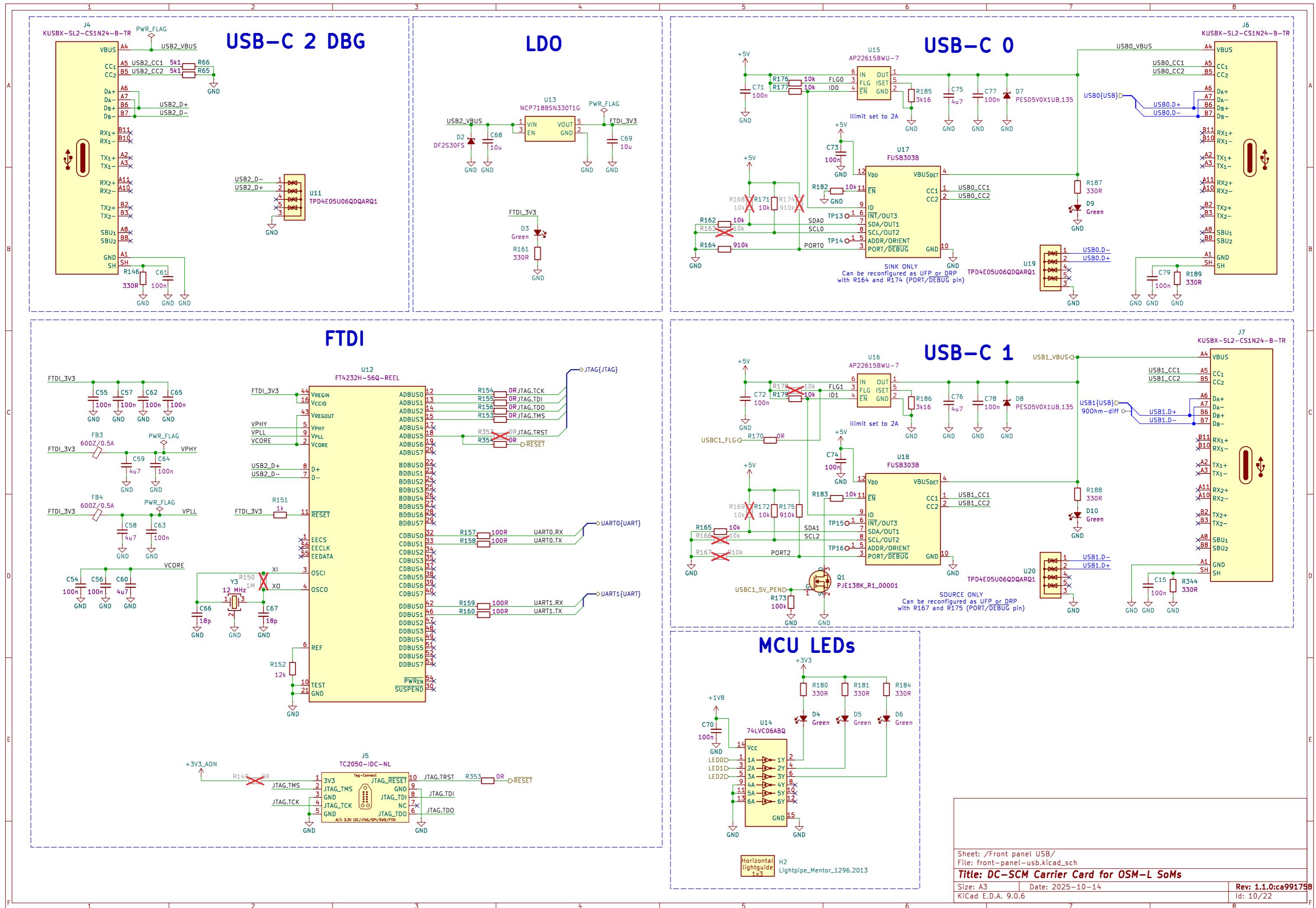


Sheet: /TPM/
File: tpm.kicad_sch

Title: DC-SCM Carrier Card for OSM-L SoMs

Size: A3 | Date: 2025-10-14
KiCad E.D.A. 9.0.6

Rev: 1.1.0:ca991758 | Id: 9/22



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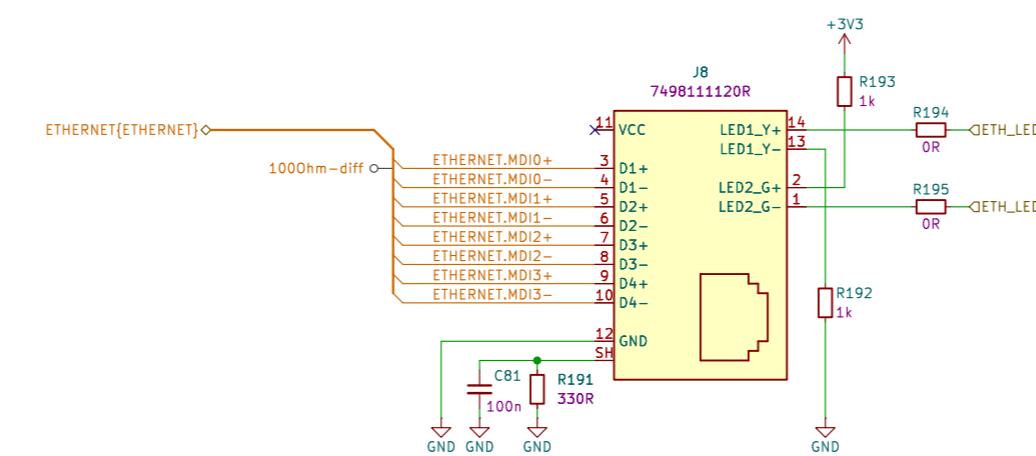
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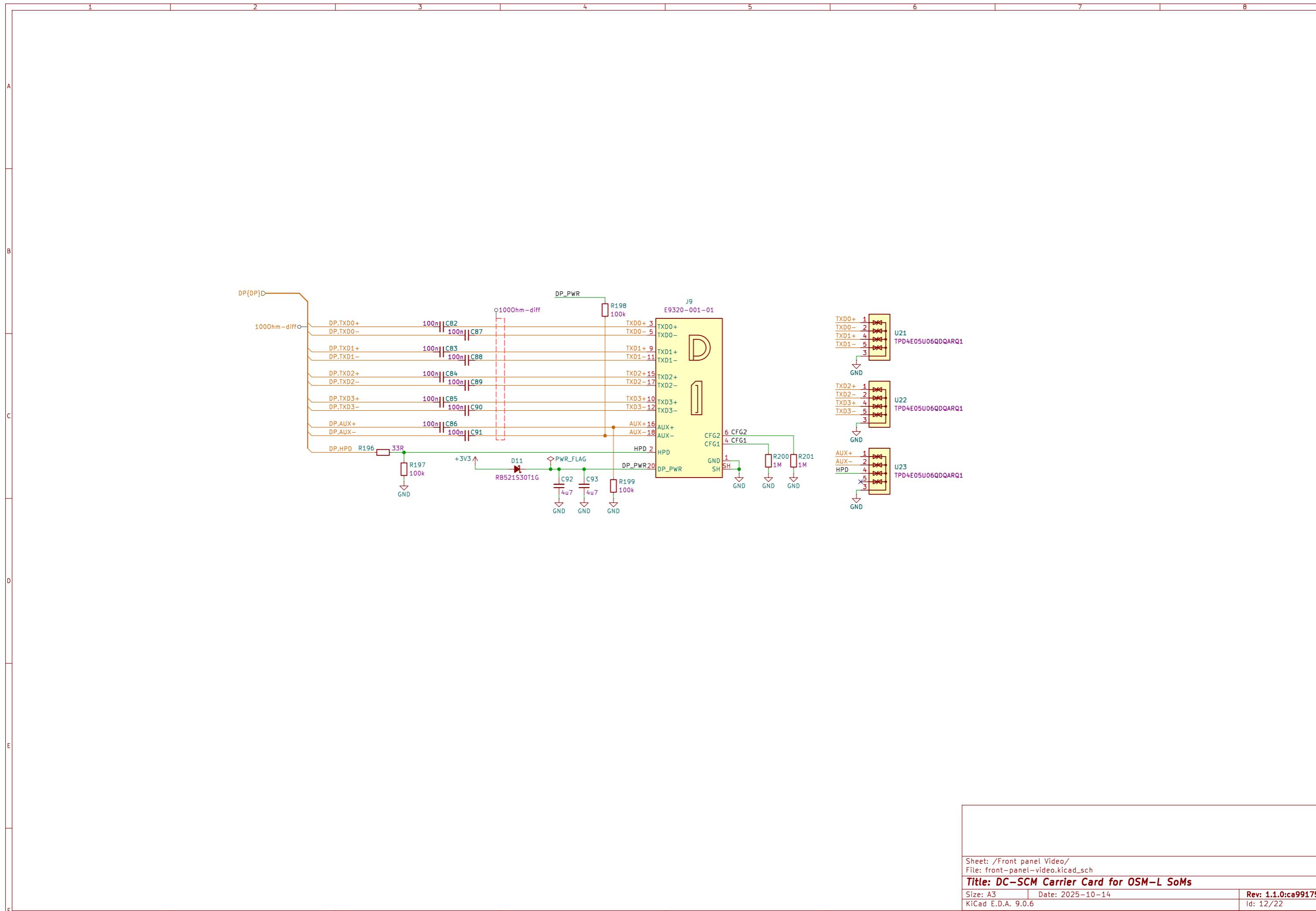
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File: front-panel-ethernet.kicad_sch

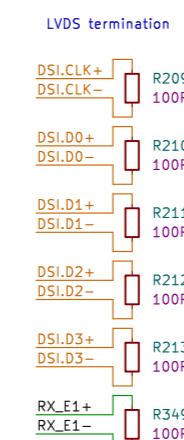
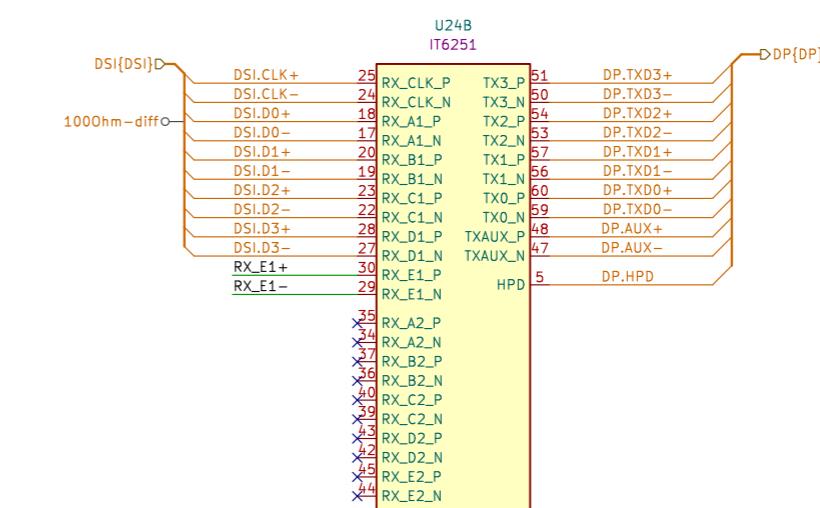
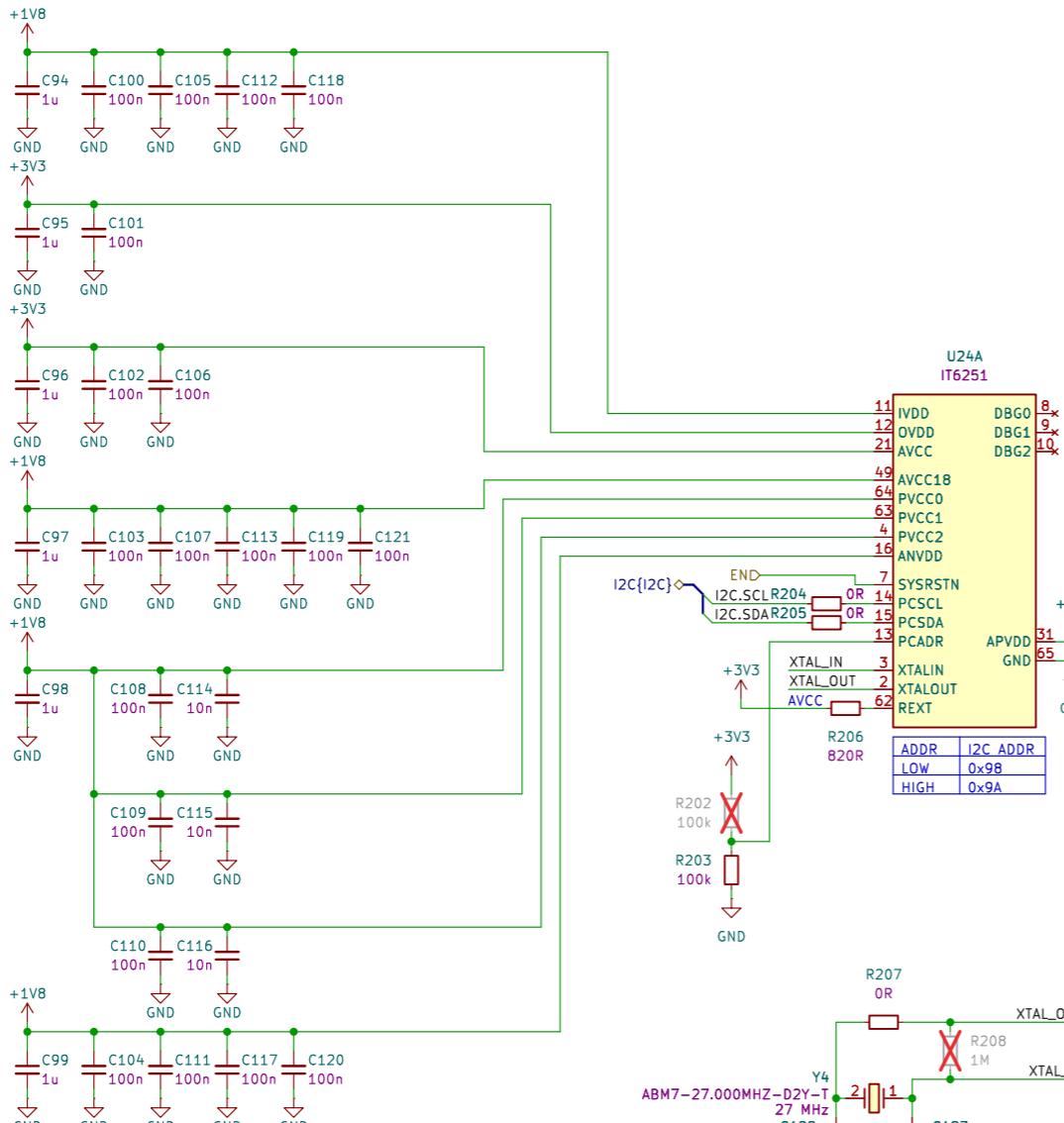
Title: DC-SCM Carrier Card for OSM-L SoMs

Size: A3 | Date: 2025-10-14
KiCad E.D.A. 9.0.6

Rev: 1.1.0:ca991758 | Id: 11/22

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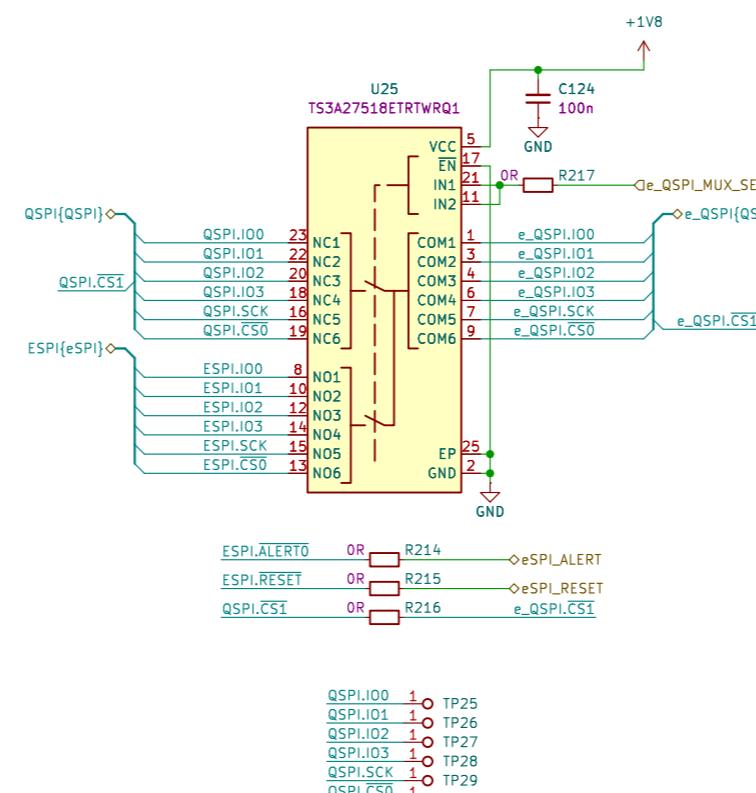
B

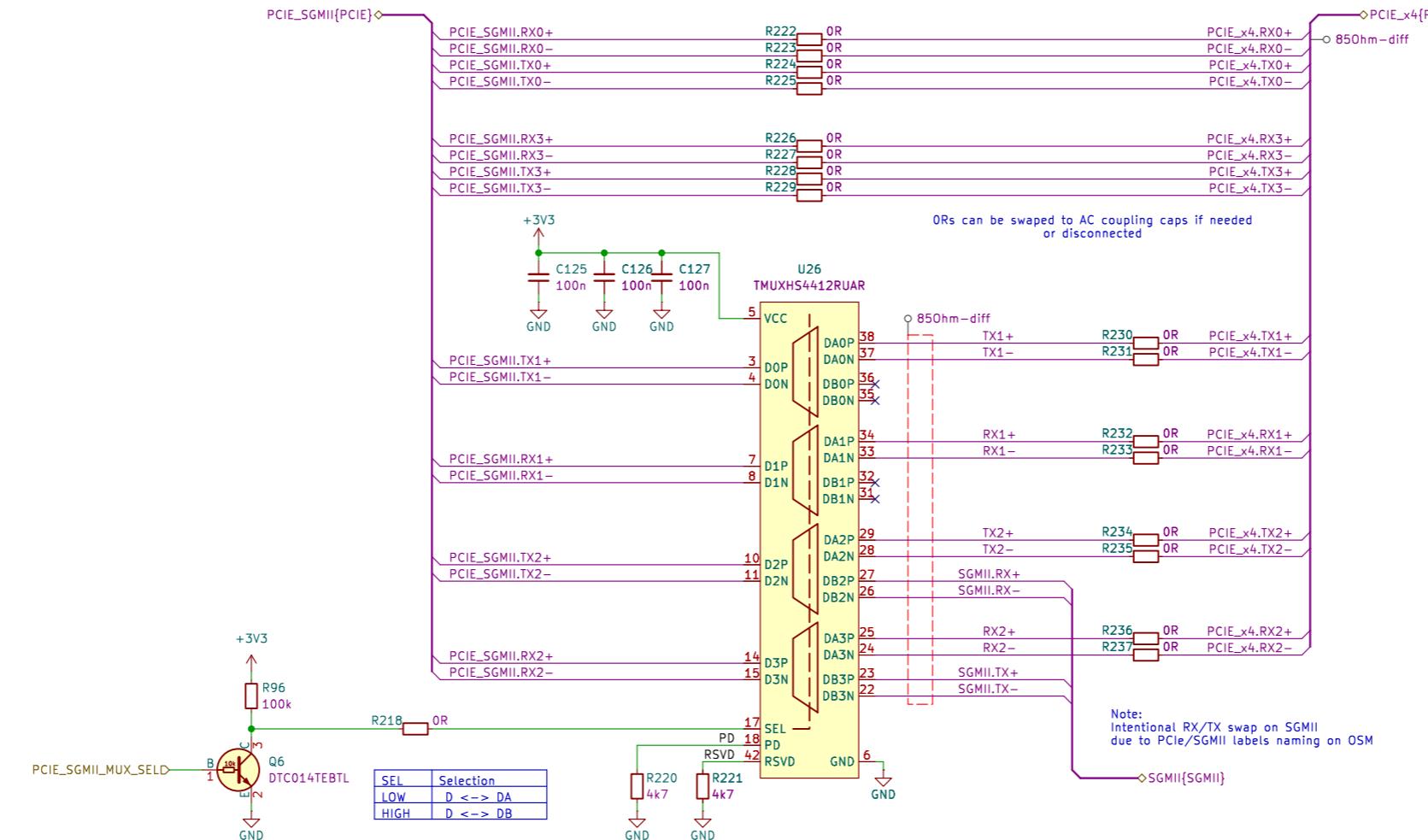
C

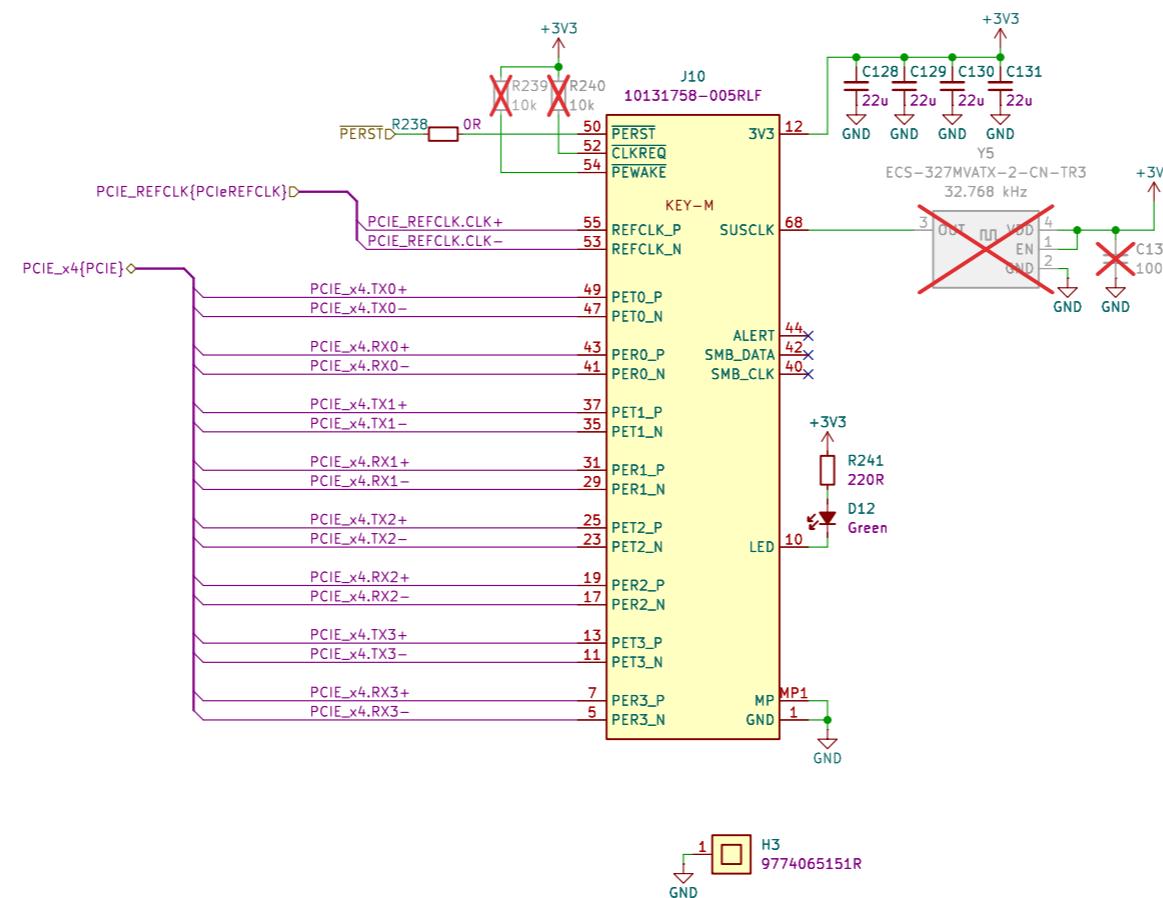
D

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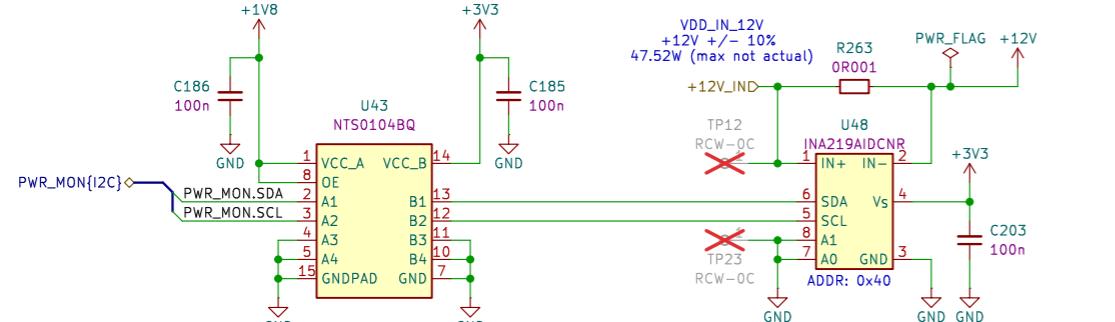
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File: pcie-x4-connector.kicad_sch

Title: DC-SCM Carrier Card for OSM-L SoMs

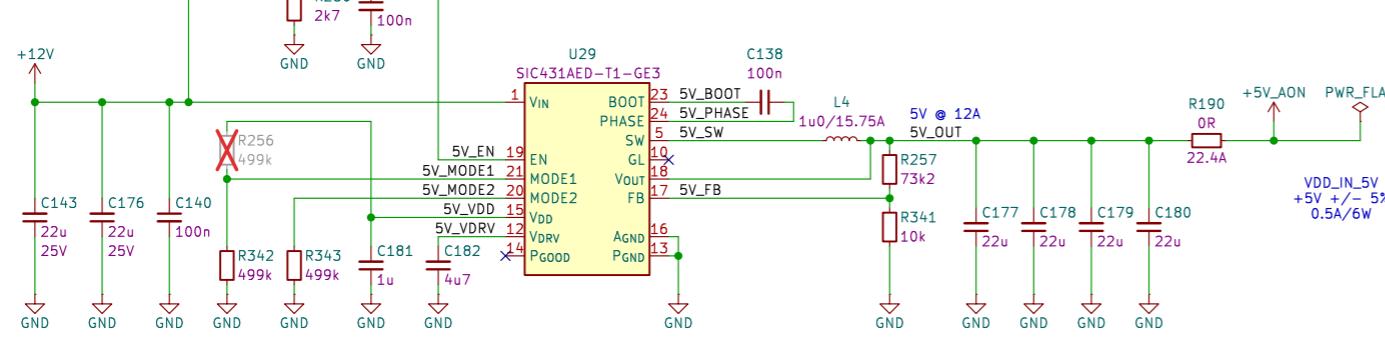
Size: A3 | Date: 2025-10-14
KiCad E.D.A. 9.0.6

Rev: 1.1.0:ca991758 | Id: 16/22

INPUT CURRENT MONITORING

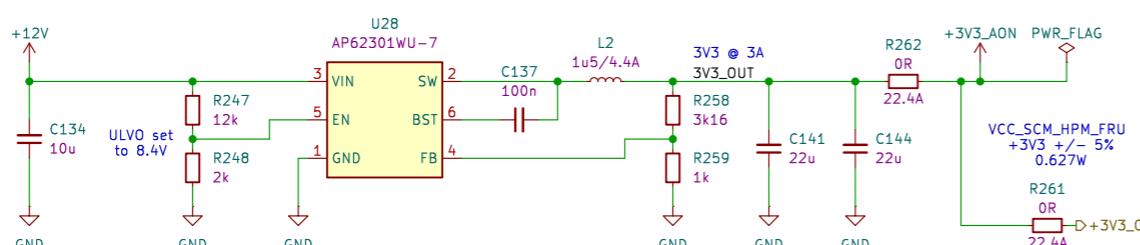


5V DCDC

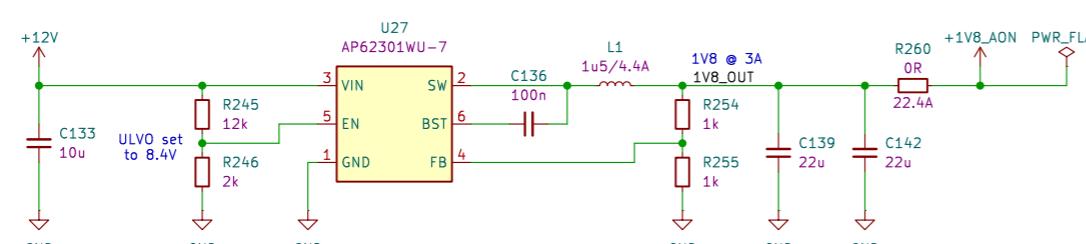


$$V_{OUT} = 0.6 * (R_{FB_H} + R_{FB_L}) / R_{FB_L}$$

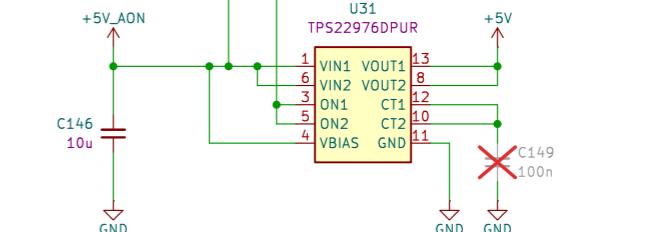
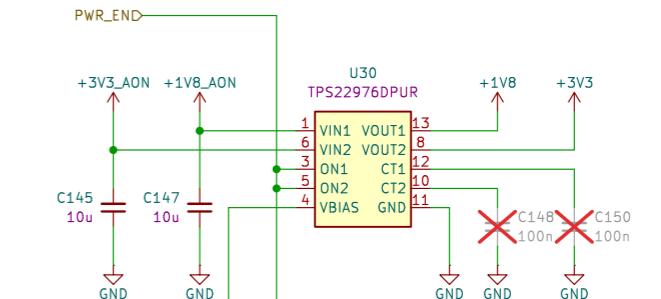
3V3 DCDC



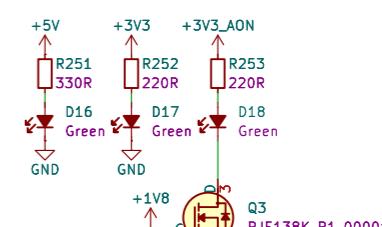
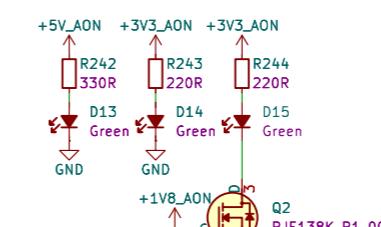
1V8 DCDC



LOAD SWITCHES



LEDs + TPs



```

    graph LR
        A[+1V8] --> B[TP17]
        A[+3V3] --> C[TP18]
        A[+5V] --> D[TP19]
        A[+1V8_AON] --> E[TP20]
        A[+3V3_AON] --> F[TP21]
        A[+5V_AON] --> G[TP22]
        H[TP11] --> I[TP17]
    
```

Sheet: /Power/
File: power.kicad_sch
Title: DC-SCM Carrier Card for OSM-L SoMs

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A

B

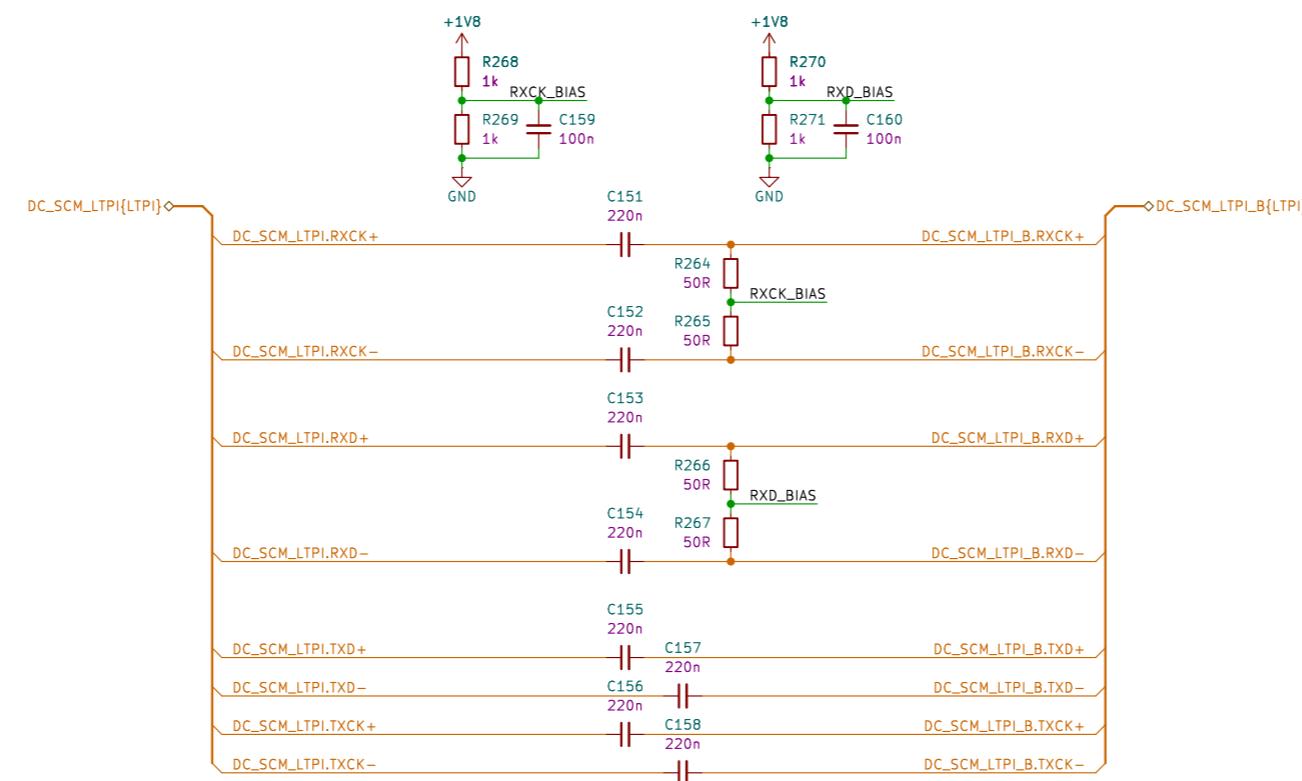
C

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BIAS Circuitry



Sheet: /LTPI_bias/
File: ltpi-voltage-bias.kicad_sch

Title: DC-SCM Carrier Card for OSM-L SoMs

Size: A3 | Date: 2025-10-14
KiCad E.D.A. 9.0.6

Rev: 1.1.0:ca991758 | Id: 18/22

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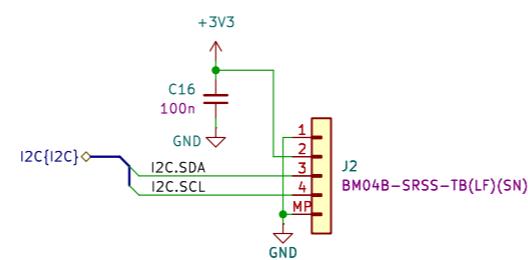
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I2C Connector



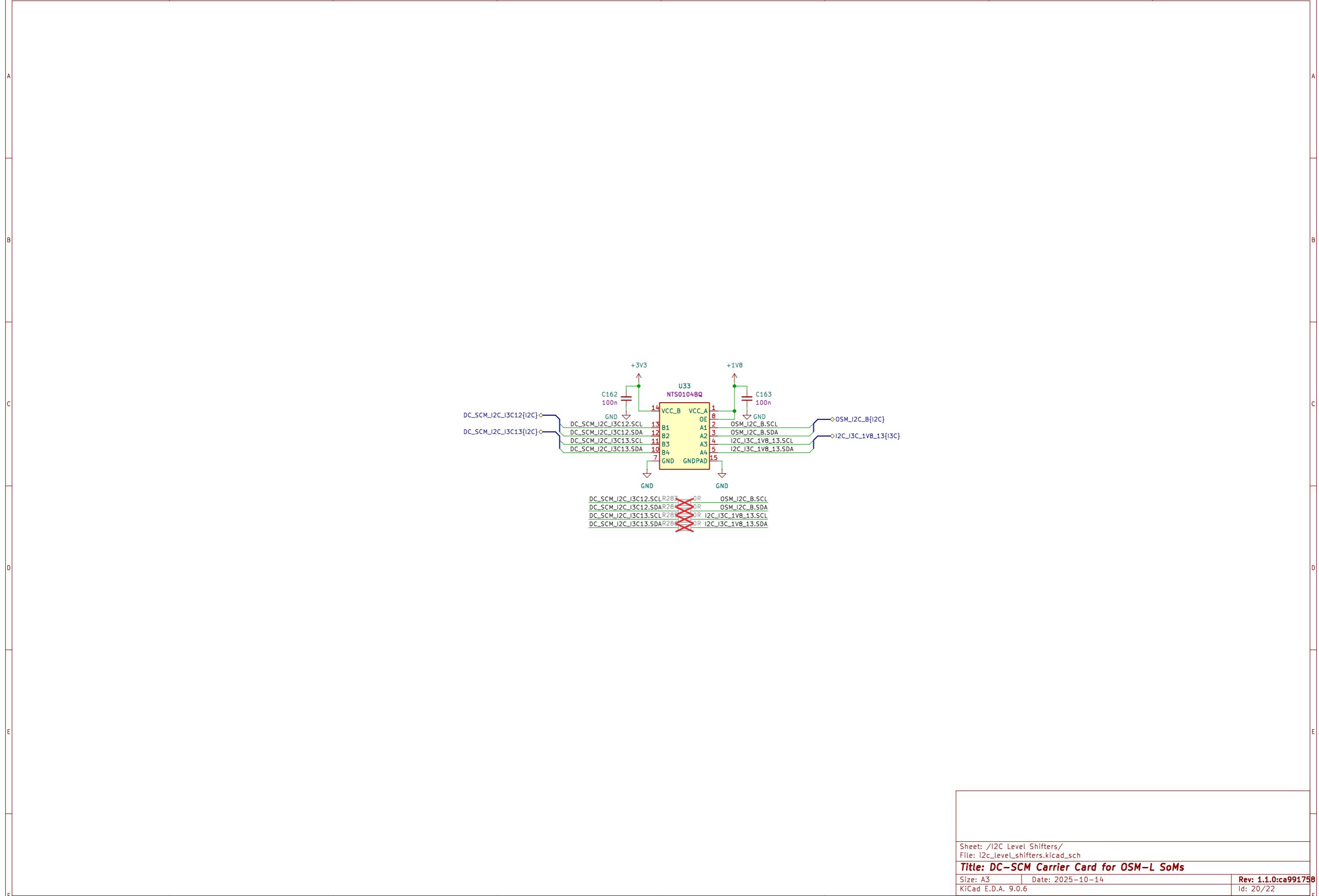
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File: i2c_conn.kicad_sch

Title: DC-SCM Carrier Card for OSM-L SoMs

Size: A3 | Date: 2025-10-14
KiCad E.D.A. 9.0.6

Rev: 1.1.0:ca991758 | Id: 19/22

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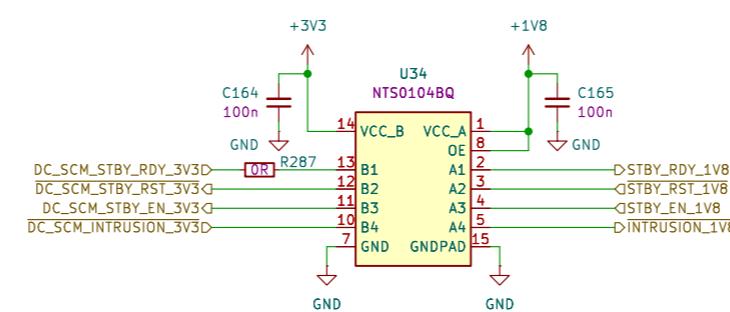
D

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Sheet: /STBY Level Shifters/
File: stby_level_shifters.kicad_sch

Title: DC-SCM Carrier Card for OSM-L SoMs

Size: A3 | Date: 2025-10-14
KiCad E.D.A. 9.0.6

Rev: 1.1.0:ca991758 | Id: 21/22

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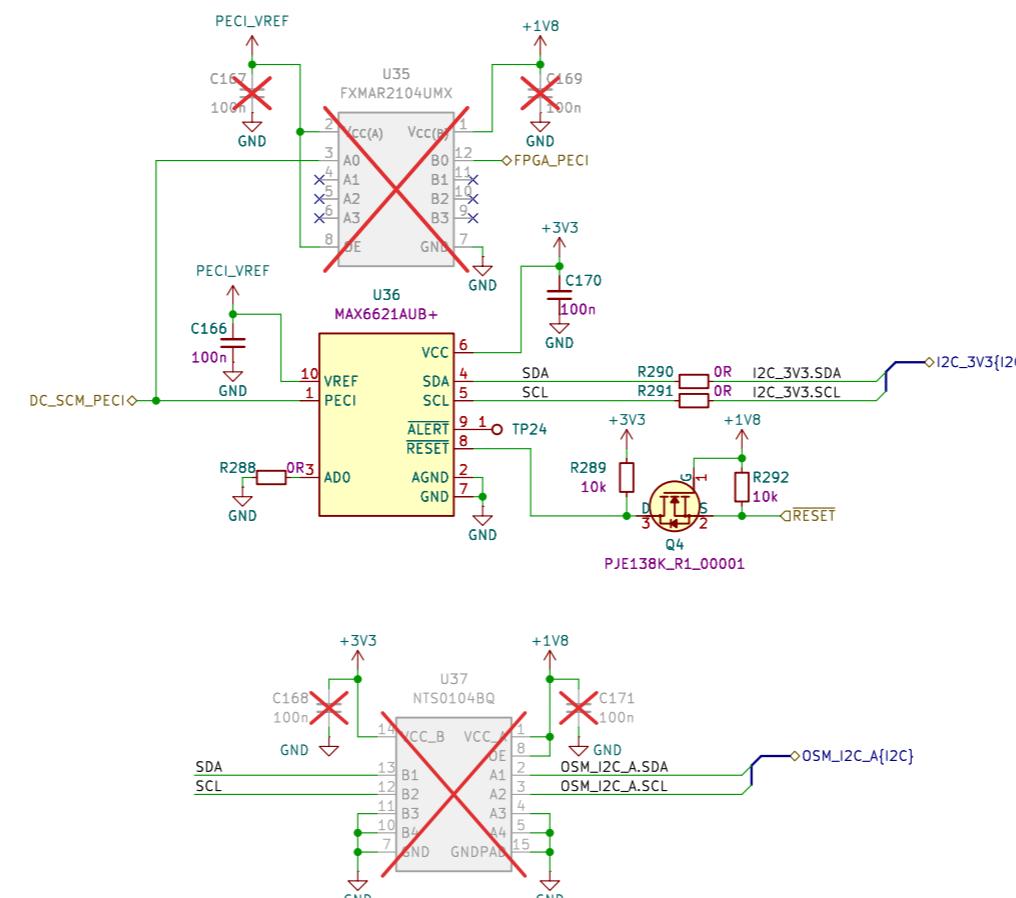
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Sheet: /PECI/
File: peci.kicad_sch

Title: DC-SCM Carrier Card for OSM-L SoMs

Size: A3 | Date: 2025-10-14
KiCad E.D.A. 9.0.6

Rev: 1.1.0:ca991758 | Id: 22/22

