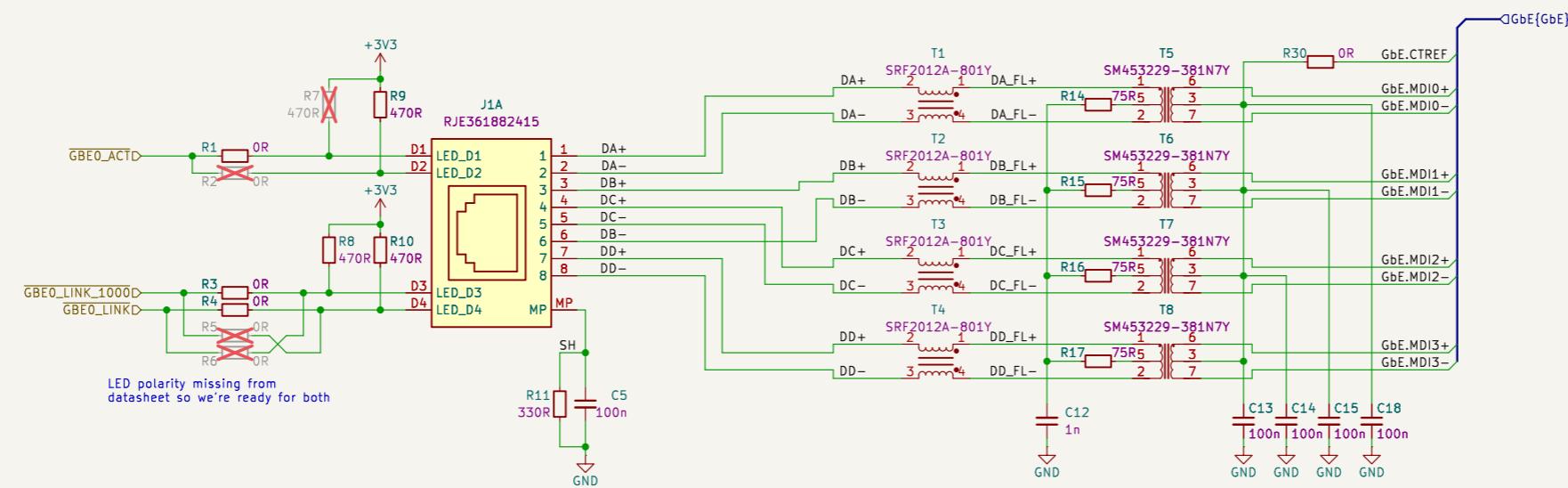
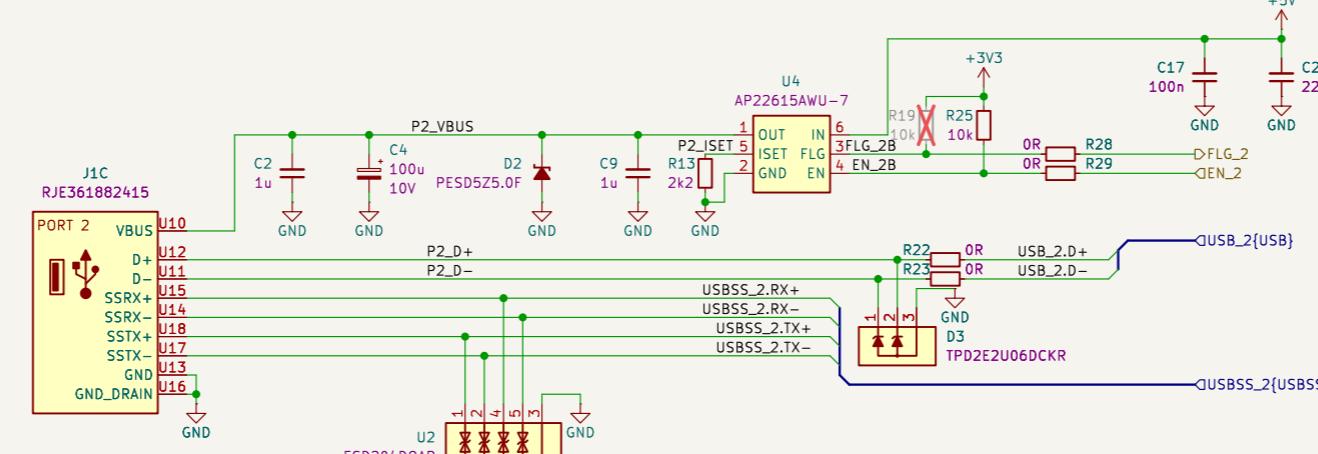
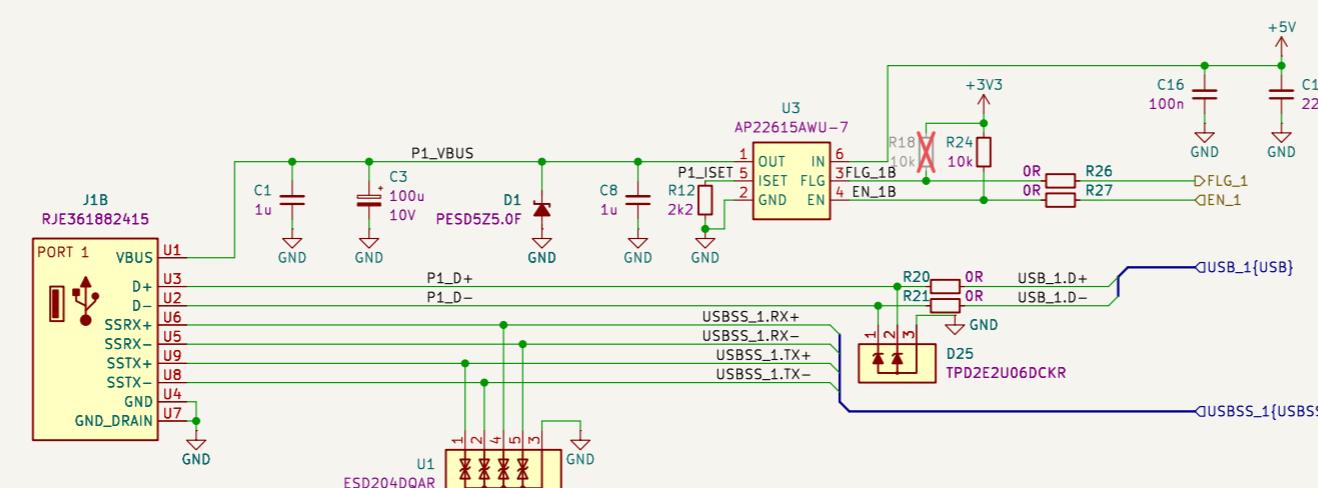


**GbE RJ45****USB 3.0**

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File: usb3+rj45.kicad\_sch

Title: COM Express 7 Baseboard

Size: A3 Date: 2024-12-13

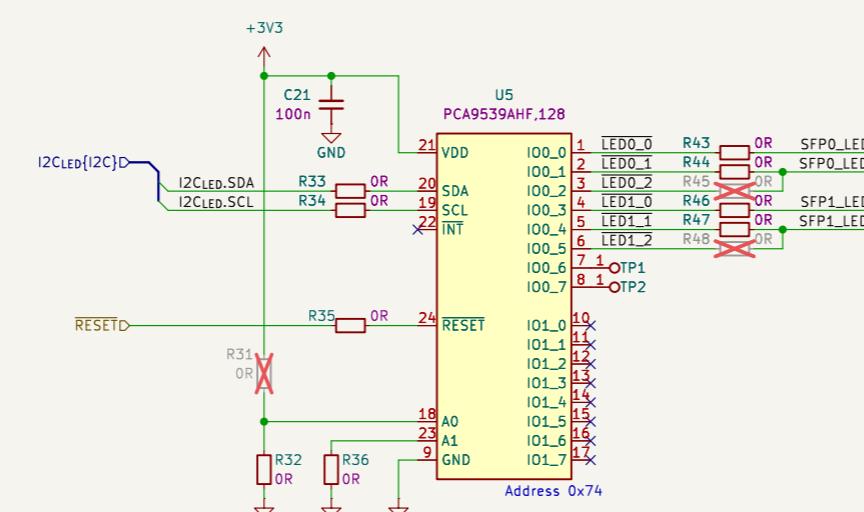
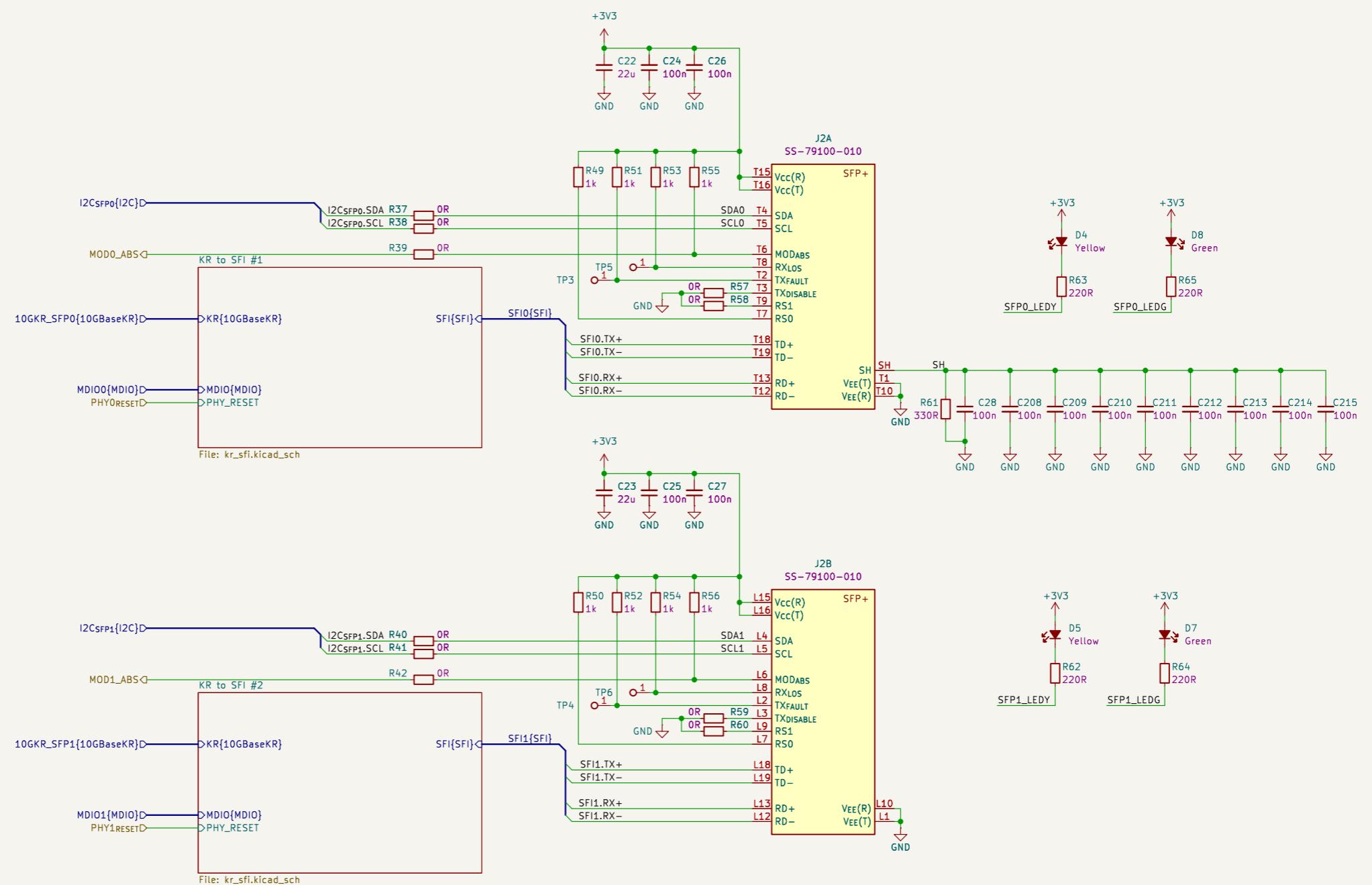
KiCad E.D.A. 8.0.5

Rev: 1.1.0:e04f7

Id: 2/19

1 2 3 4 5 6 7 8

### 2x SFP+



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Sheet: /2xSFP+ /

File: 2xSFP+.kicad\_sch

Title: COM Express 7 Baseboard

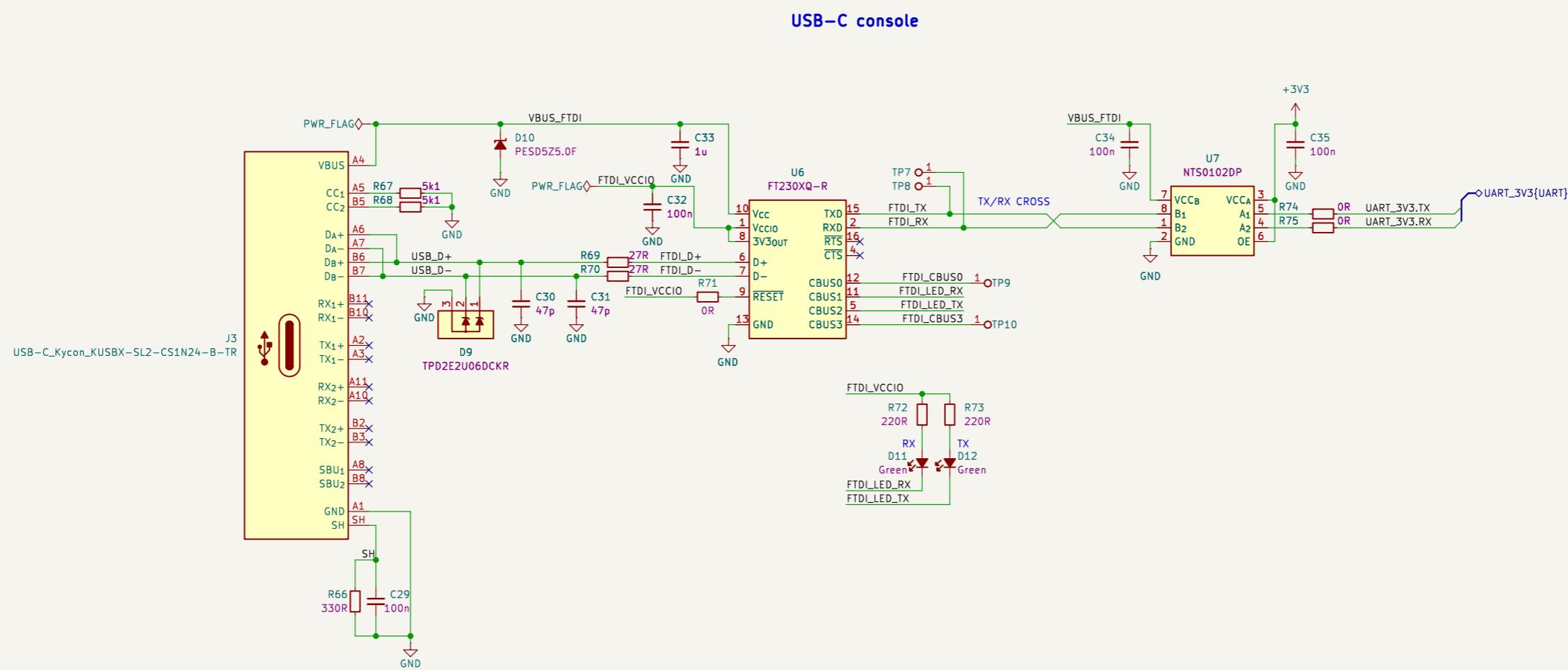
Size: A3 Date: 2024-12-13

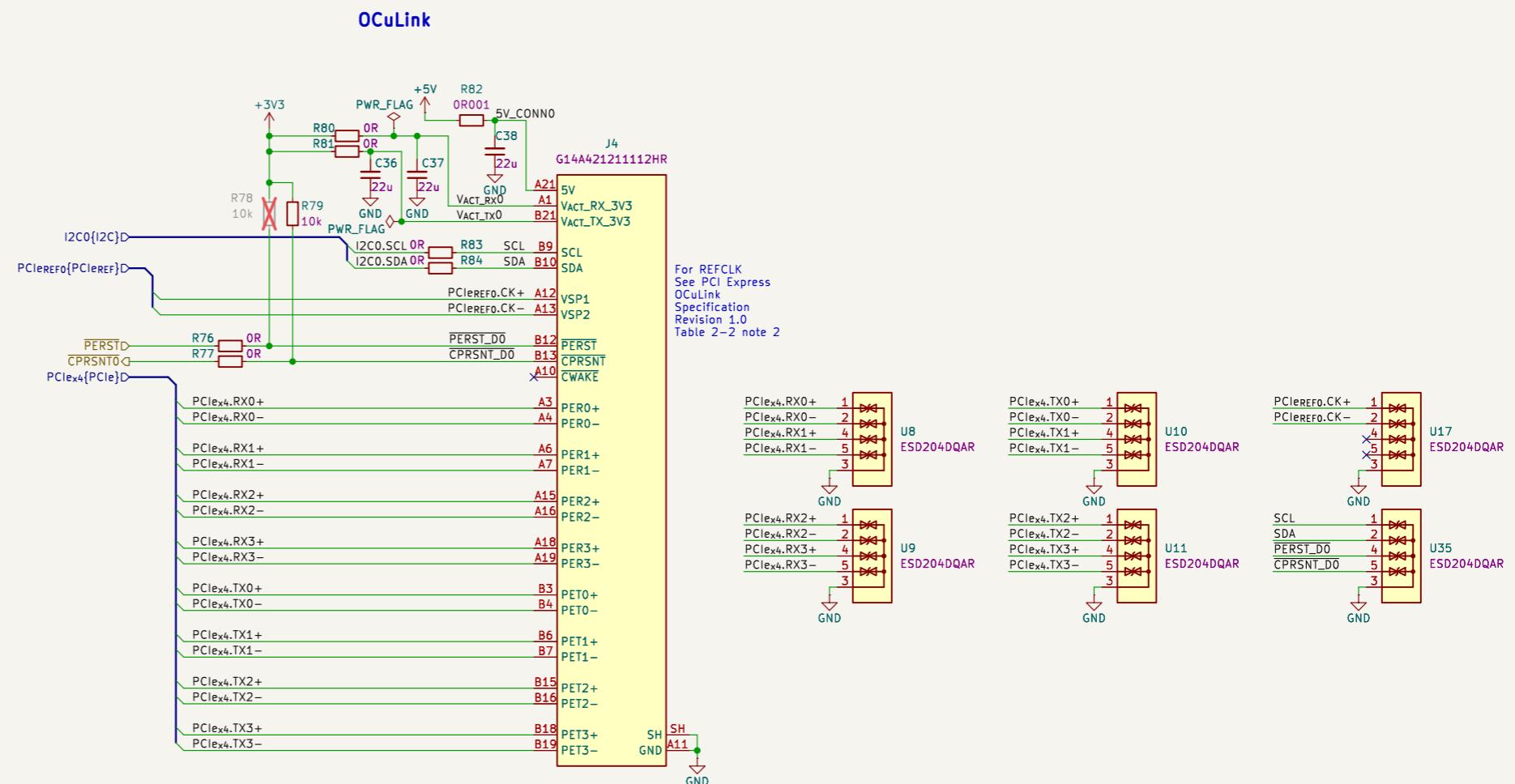
KiCad E.D.A. 8.0.5

Rev: 1.1.0:e04f7

Id: 3/19

1 2 3 4 5 6 7 8





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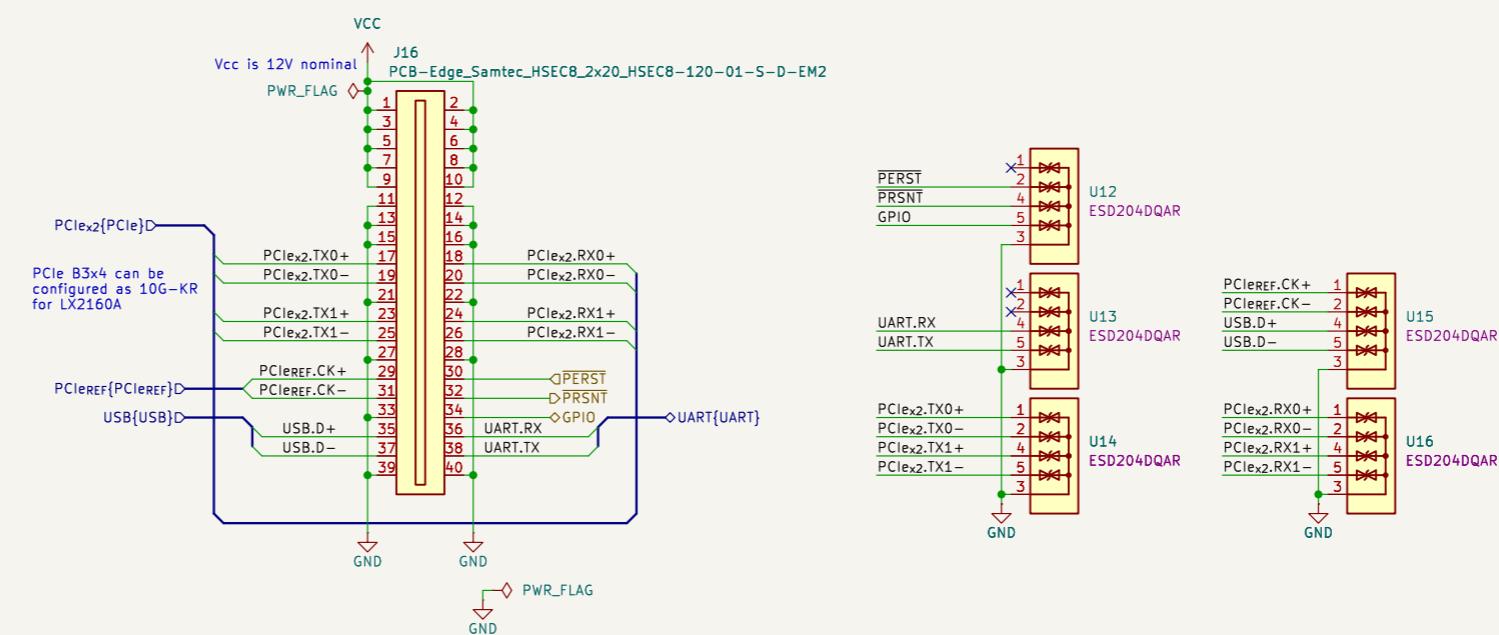
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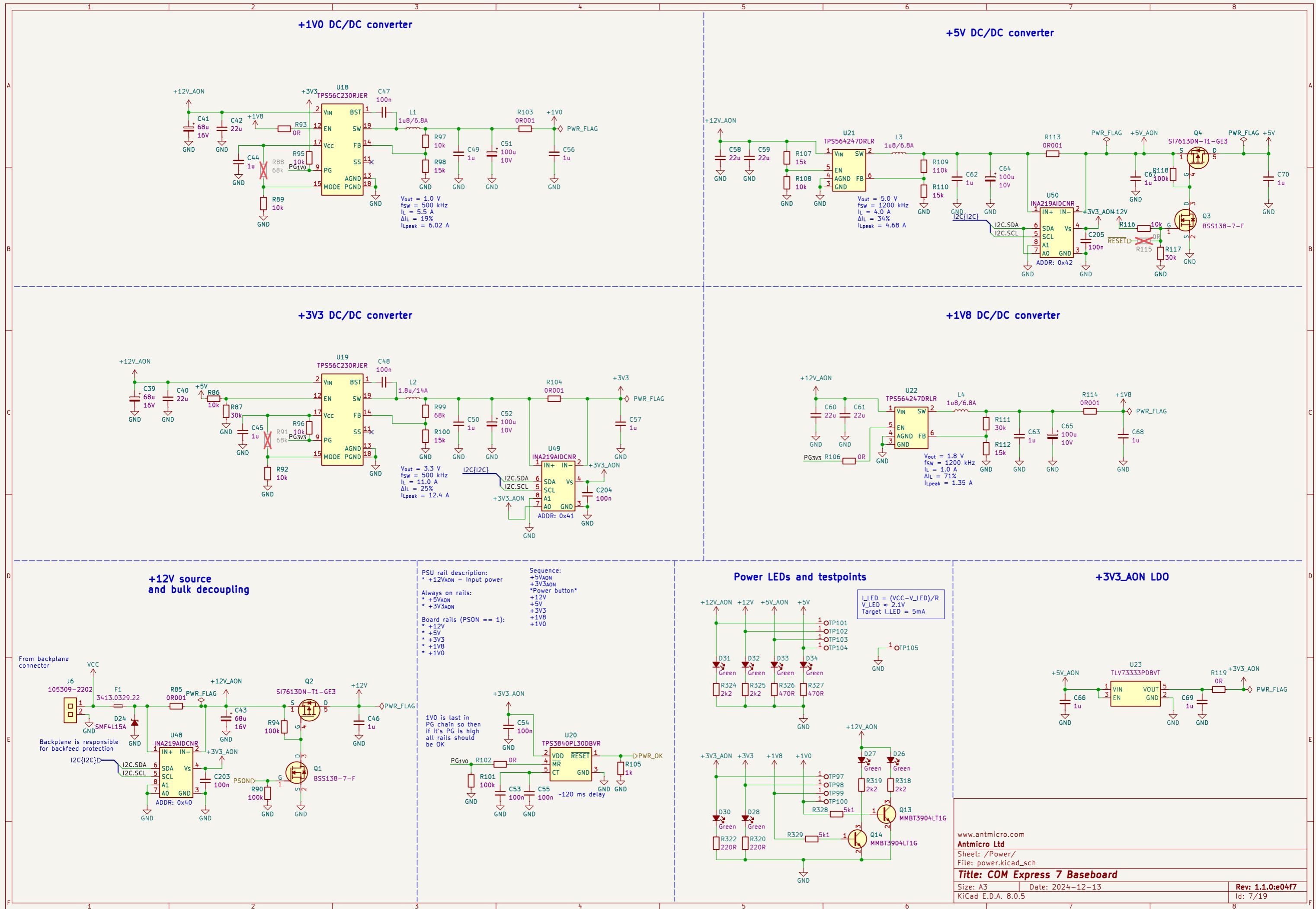
E

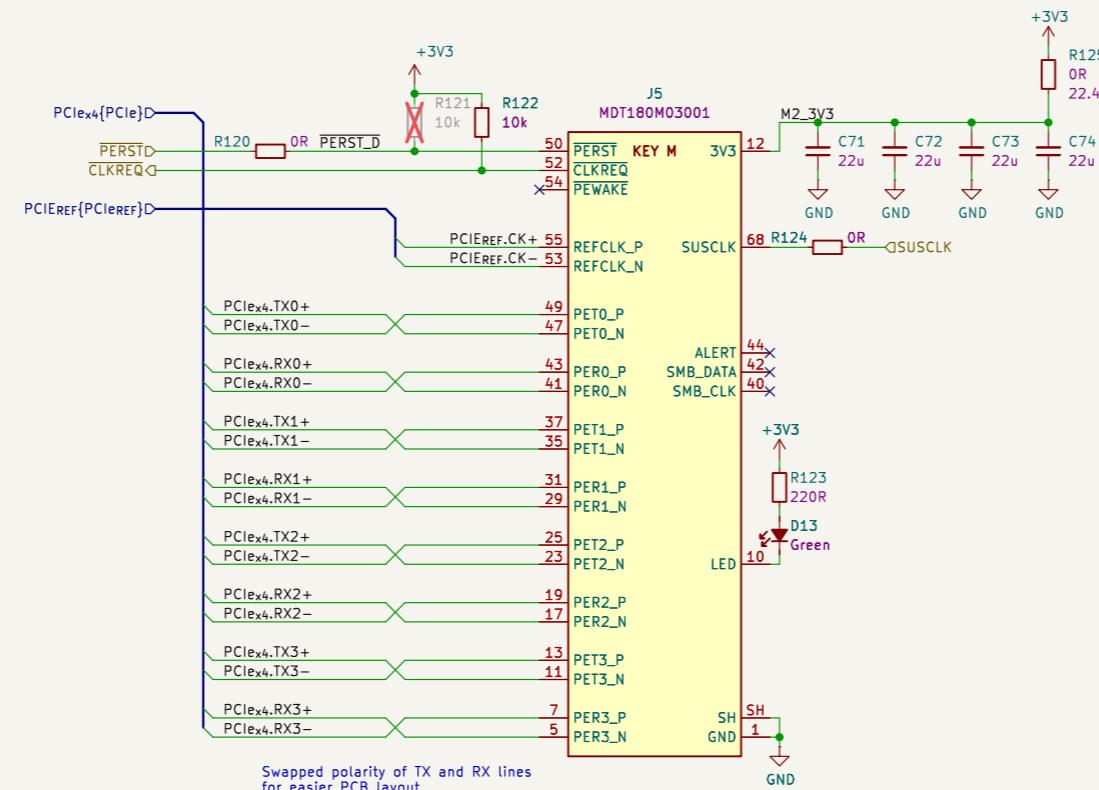
F

### Backplane connector


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 Sheet: /Backplane/  
 File: backplane.kicad\_sch
**Title: COM Express 7 Baseboard**
 Size: A3 | Date: 2024-12-13  
 KiCad E.D.A. 8.0.5

Rev: 1.1.0:e04f7 | Id: 6/19



**M.2 key M**A2  
Mech\_M2\_2280\_H2.5mmH2  
Spacer\_Drill3.7mm\_H2.5mm\_9774025151R

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Sheet: /M.2 key M #1/

File: m2keym\_low.kicad\_sch

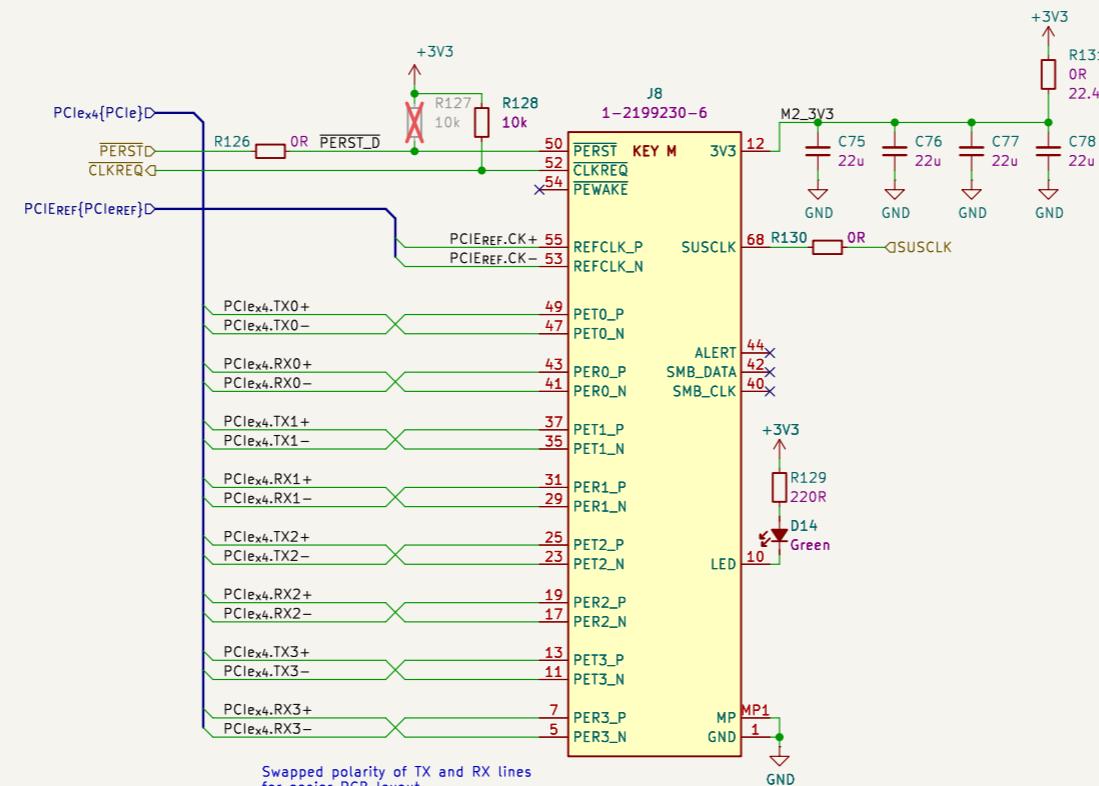
**Title: COM Express 7 Baseboard**

Size: A3 Date: 2024-12-13

KiCad E.D.A. 8.0.5

Rev: 1.1.0:e04f7

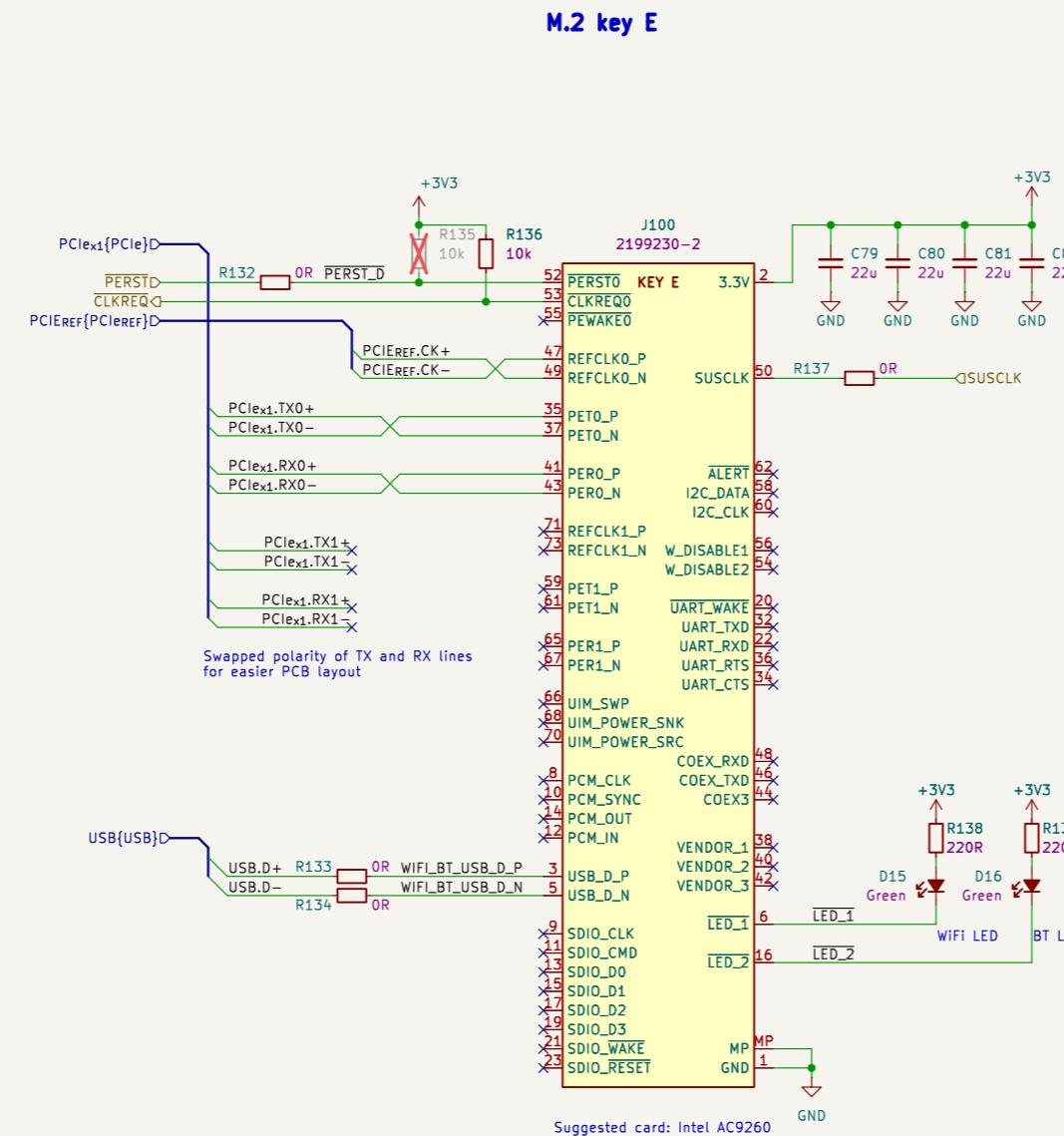
Id: 8/19

**M.2 key M**A1  
Mech\_M2\_2280\_H2.5mmH1  
Spacer\_Drill3.7mm\_H2.5mm\_9774025151R

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Sheet: /M.2 key M #2/  
File: m2keym.kicad\_sch**Title: COM Express 7 Baseboard**Size: A3 | Date: 2024-12-13  
KiCad E.D.A. 8.0.5Rev: 1.1.0:e04f7  
Id: 9/19



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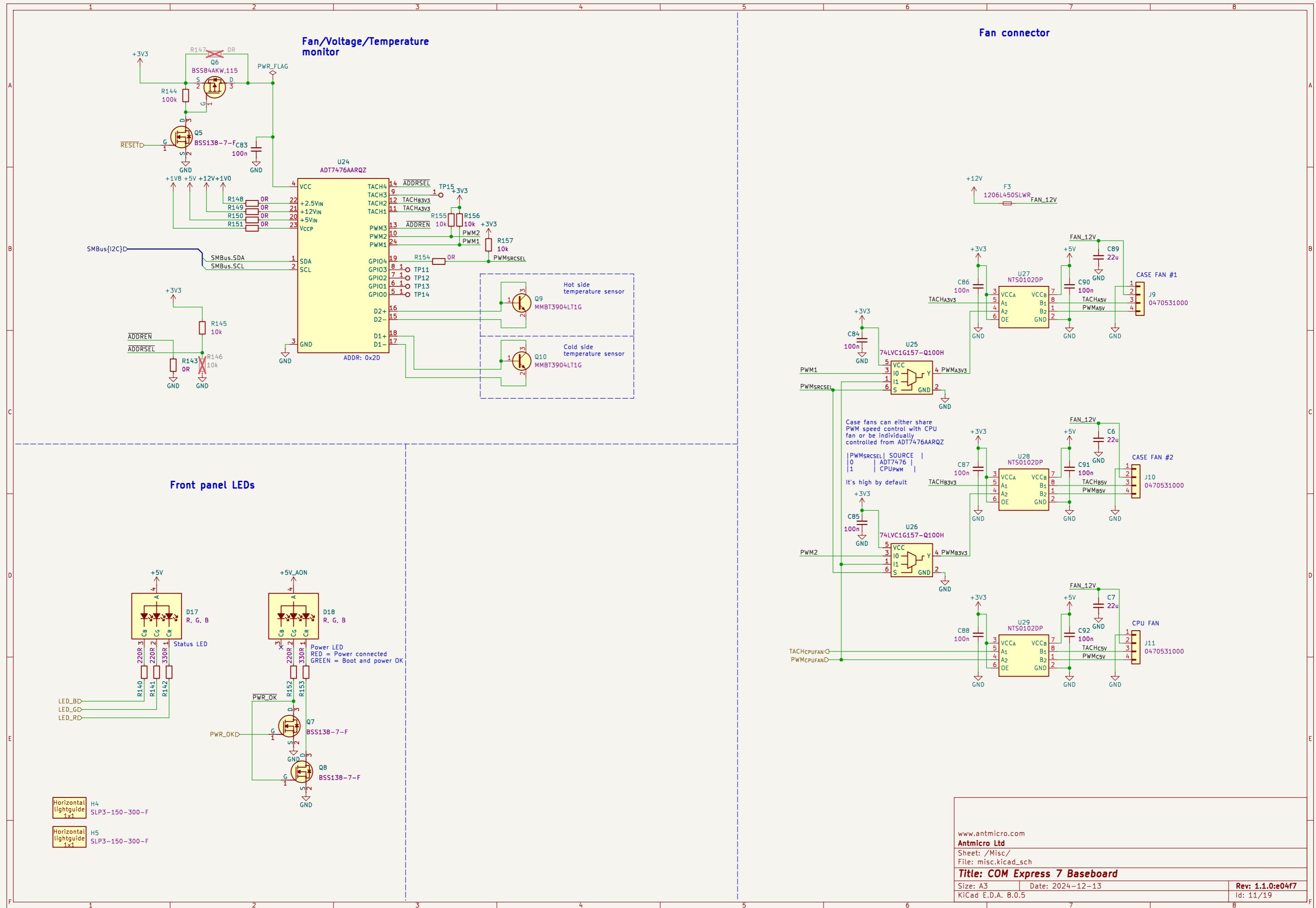
**Antmicro Ltd**

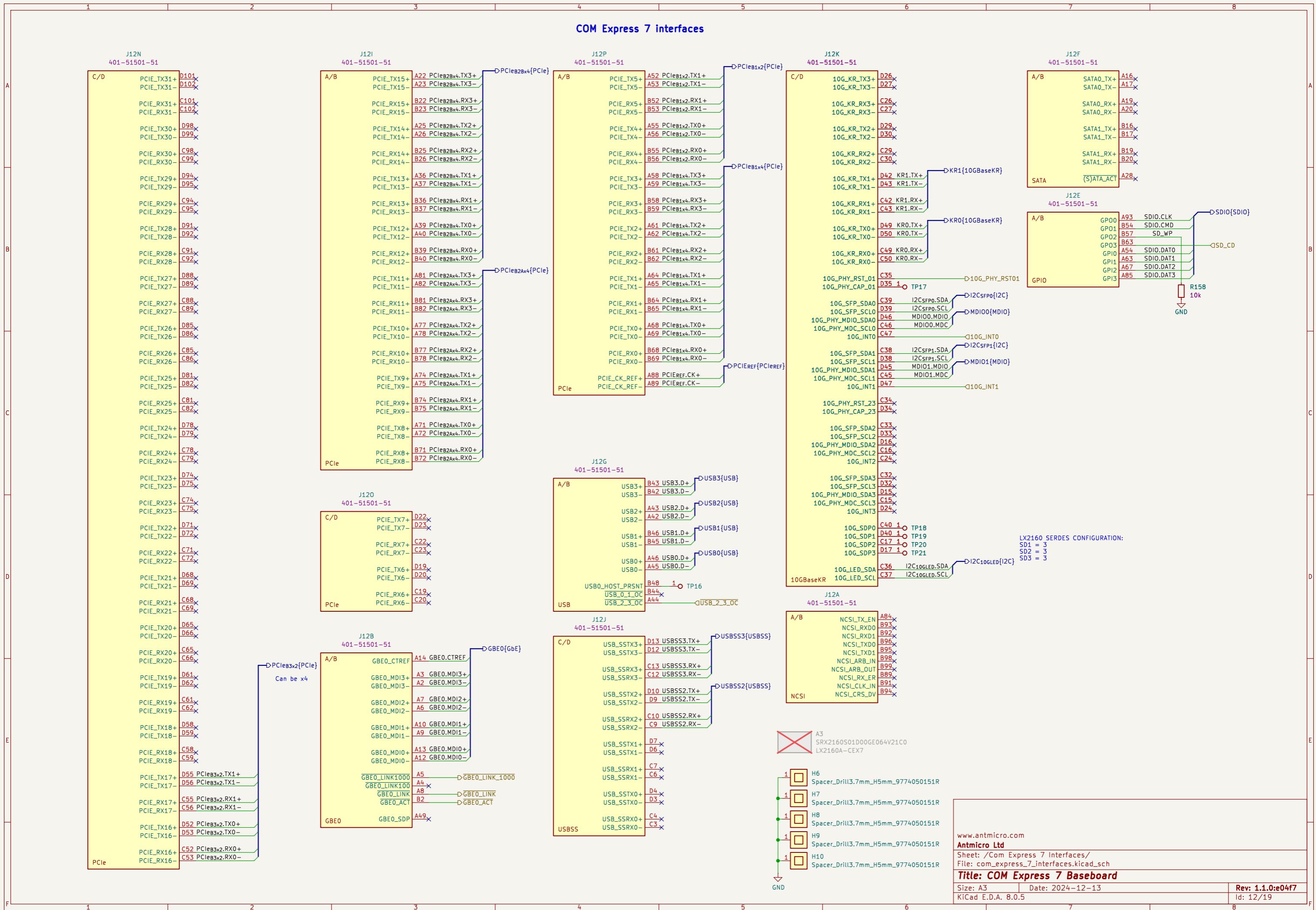
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**Title: COM Express 7 Baseboard**

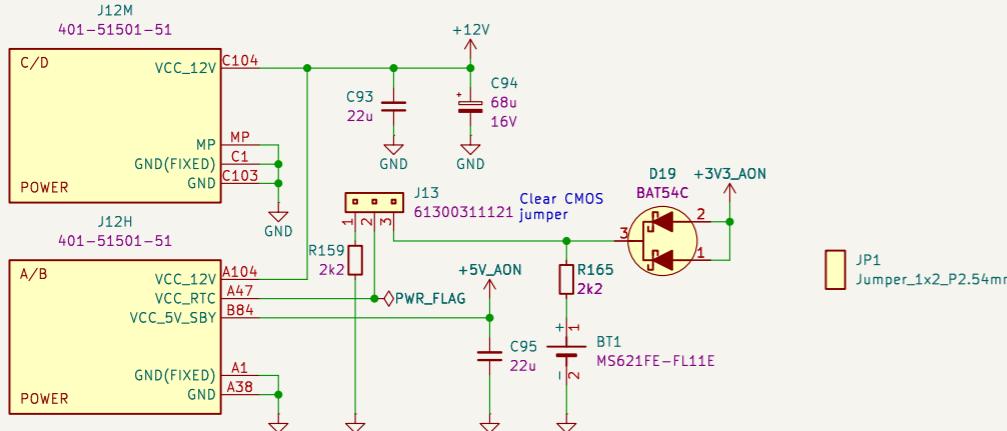
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KiCad E.D.A. 8.0.5

Rev: 1.1.0:e04f7  
Id: 10/19

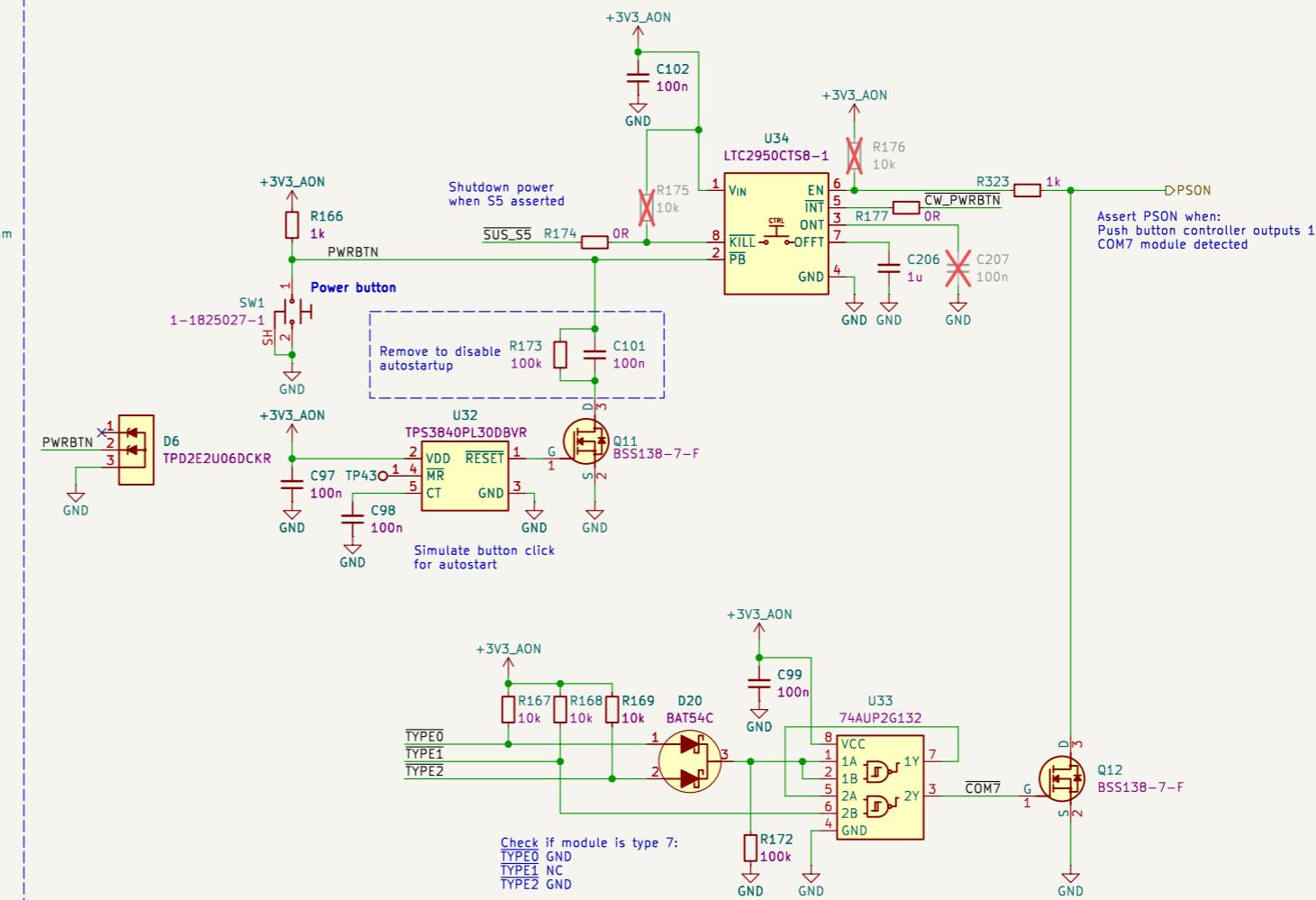




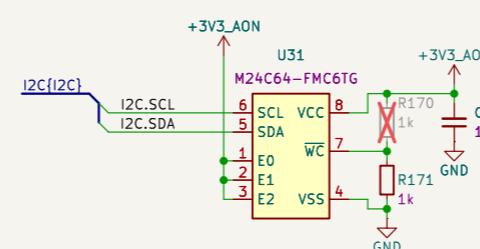
## COM Express 7 power and management



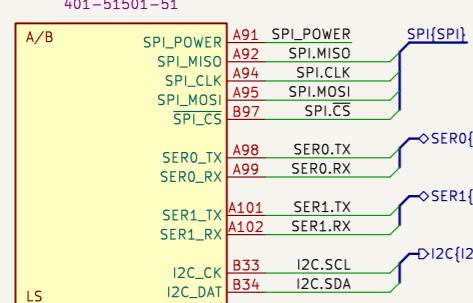
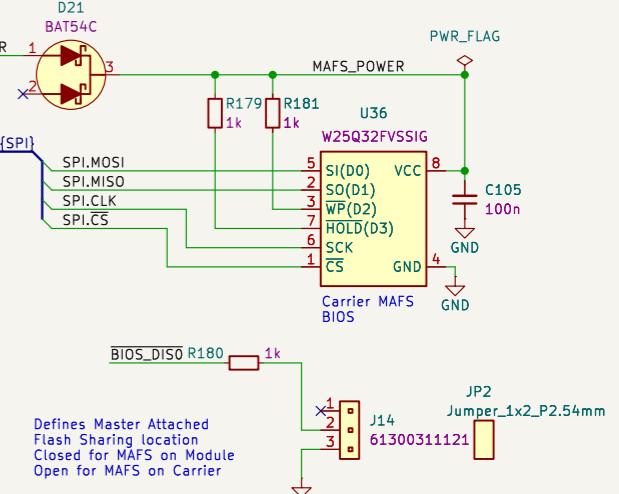
## Power and reset



## Carrier Board EEPROM



## Carrier MAFS BIOS



Devices on the I2C bus:  
 \* 0x2D ADT7476AARQZ  
 \* 0x40 12V Current/Power Monitor  
 \* 0x41 3V3 Current/Power Monitor  
 \* 0x42 5V0 Current/Power Monitor  
 \* 0x50, 0x58 Module EEPROM  
 \* 0x57, 0x5F Board EEPROM

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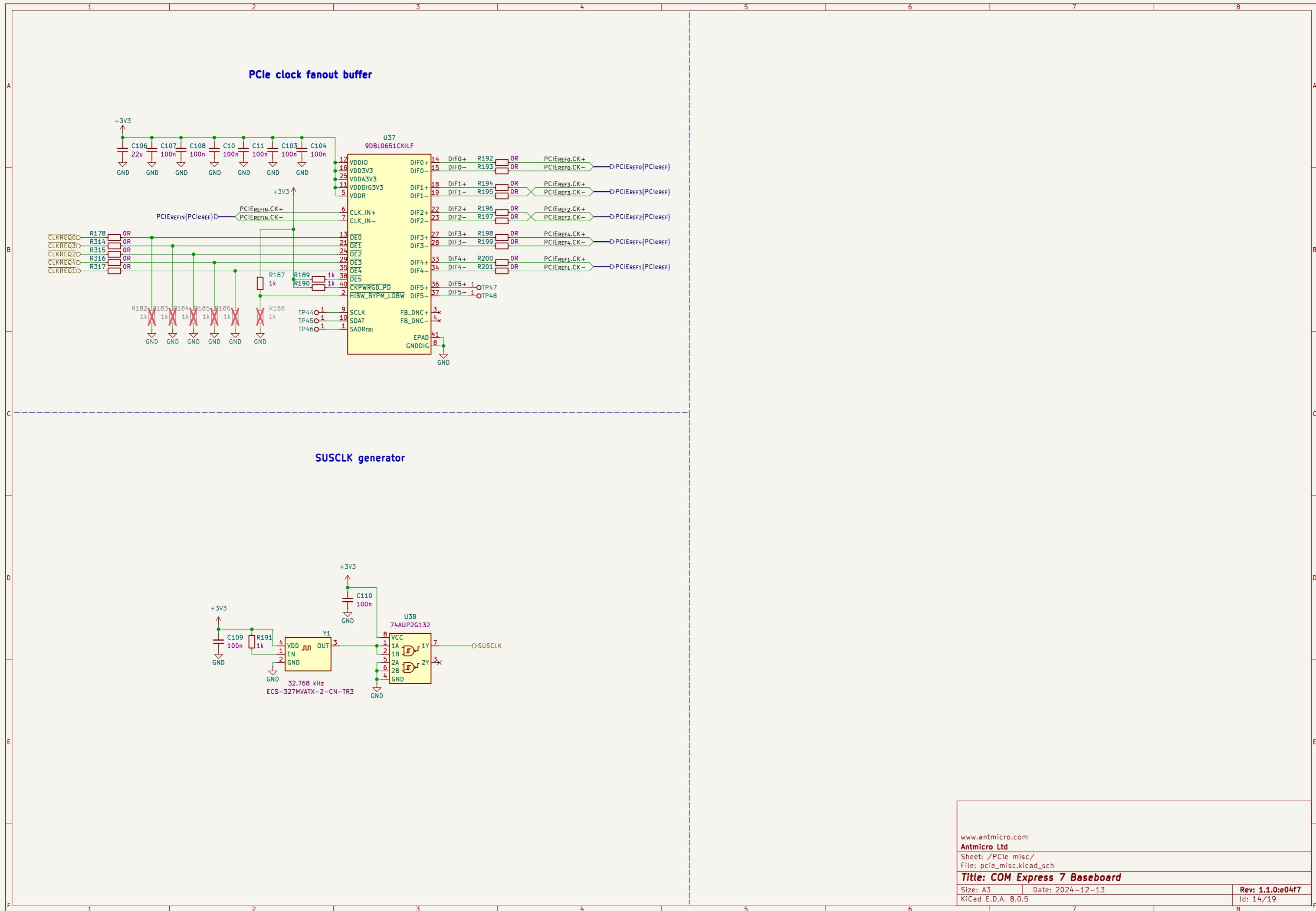
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File: com\_express\_7\_mgmt.kicad\_sch

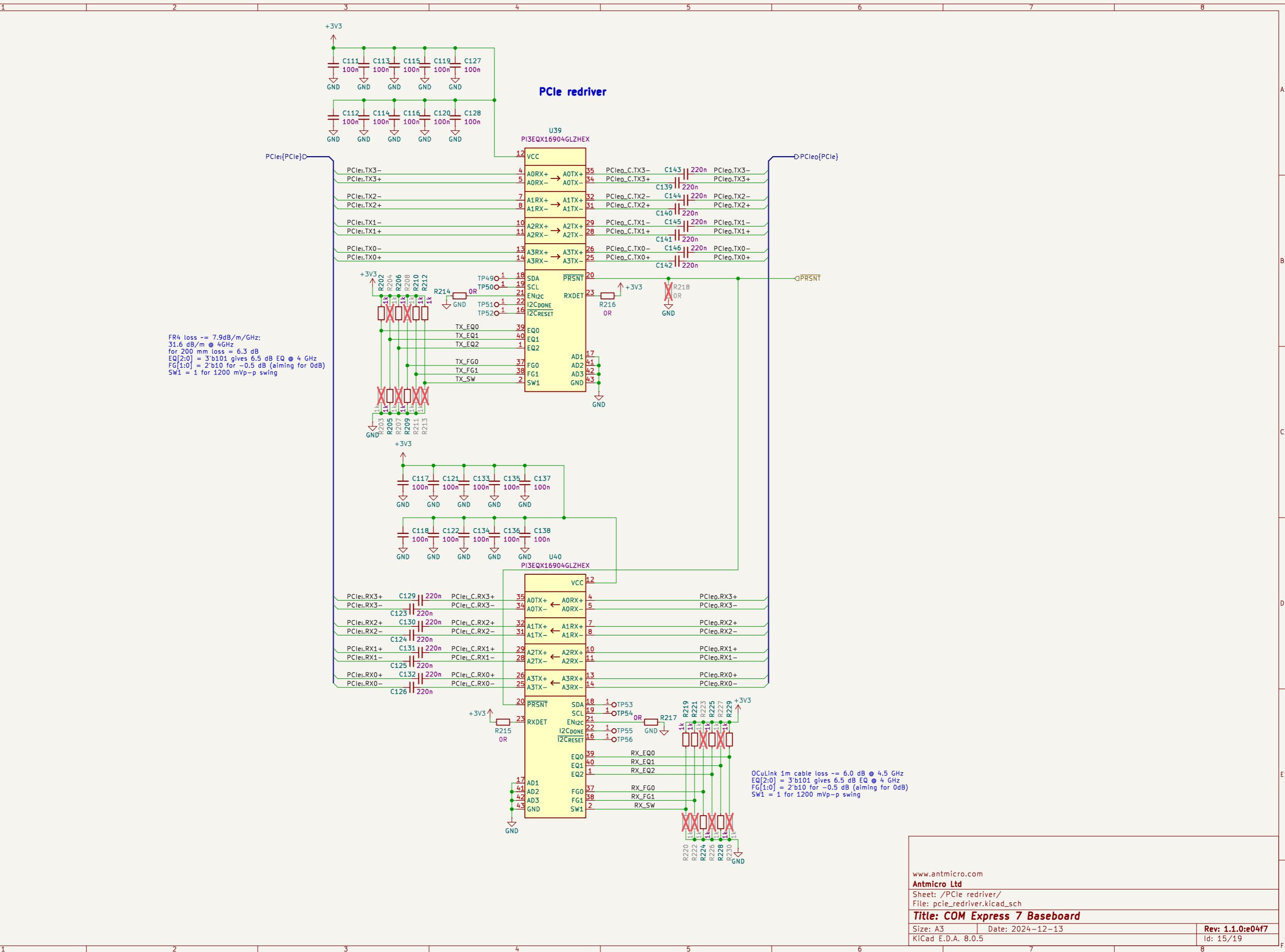
Title: COM Express 7 Baseboard

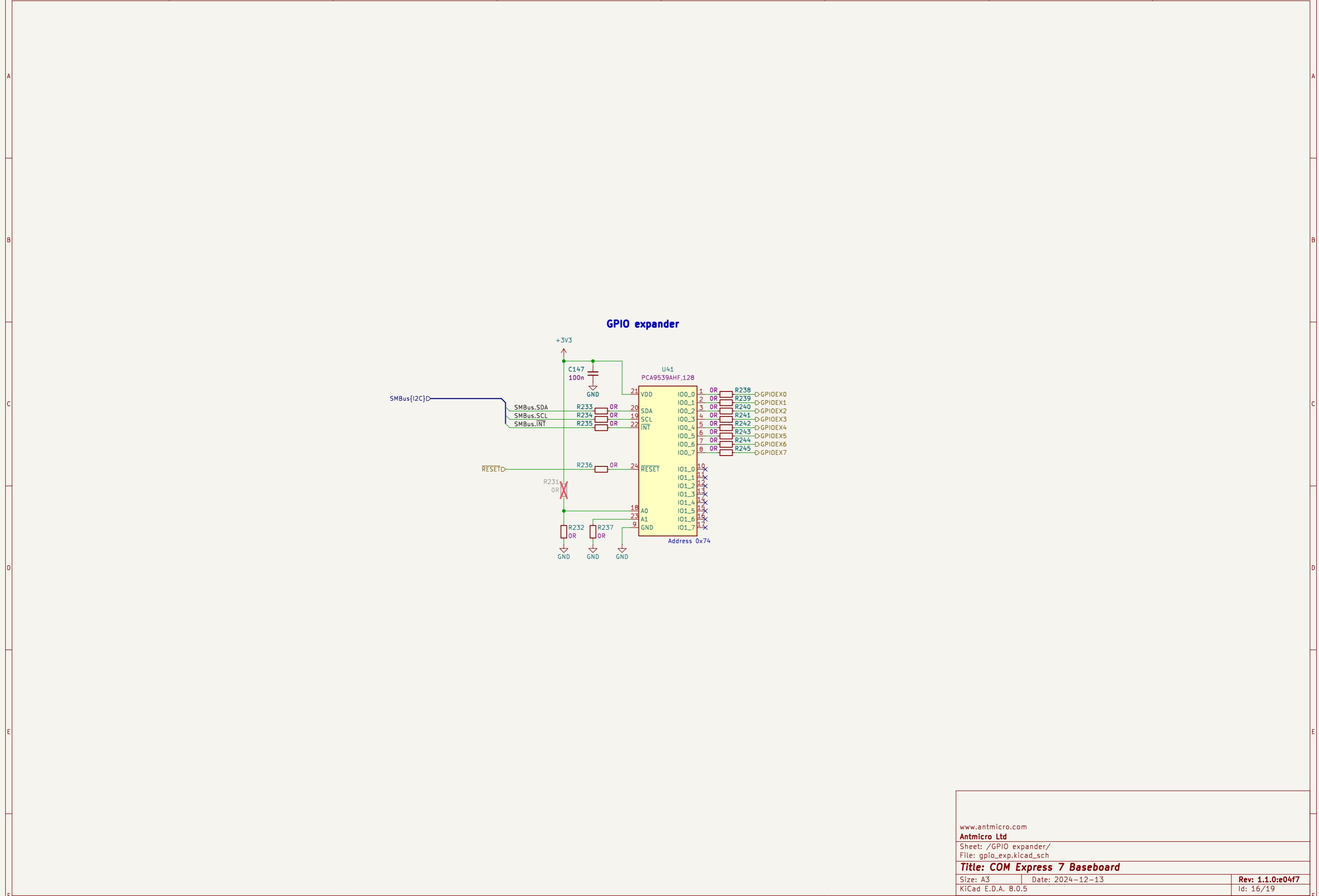
Size: A3 Date: 2024-12-13  
KiCad E.D.A. 8.0.5

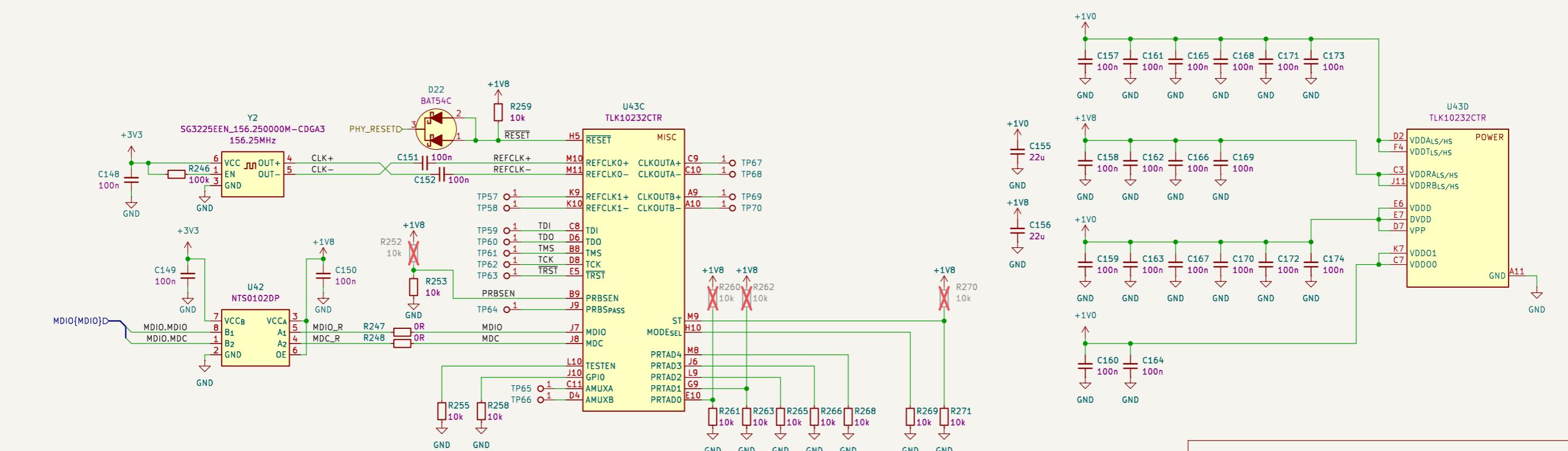
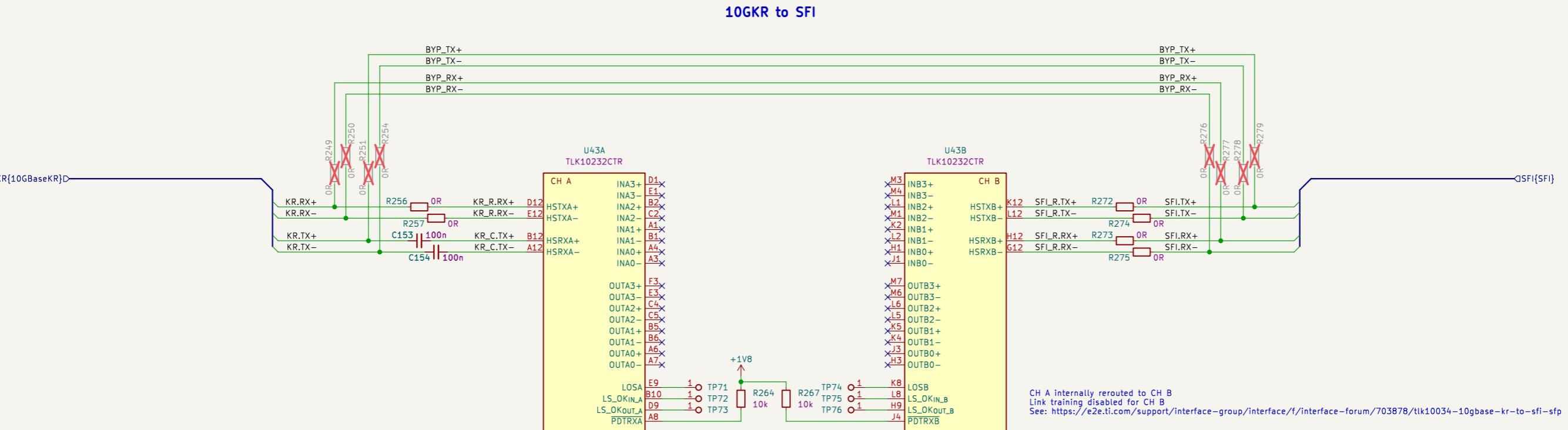
Rev: 1.1.0:e04f7  
Id: 13/19

1 2 3 4 5 6 7 8









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Sheet: /2xSFP+/KR to SFI #1/

File: kr\_sfi.kicad\_sch

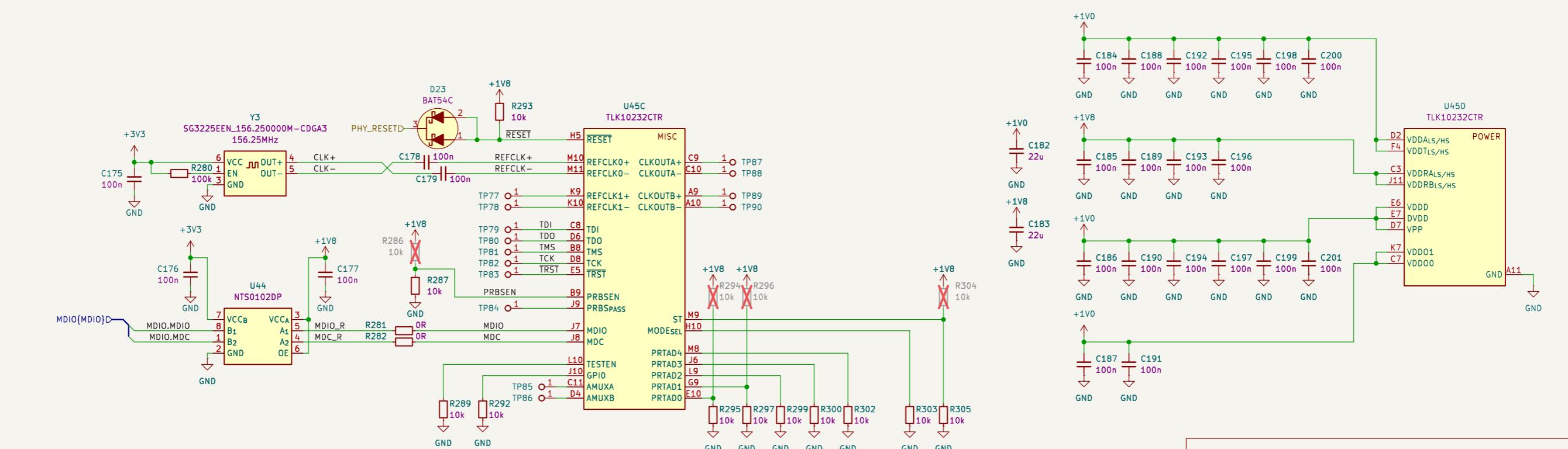
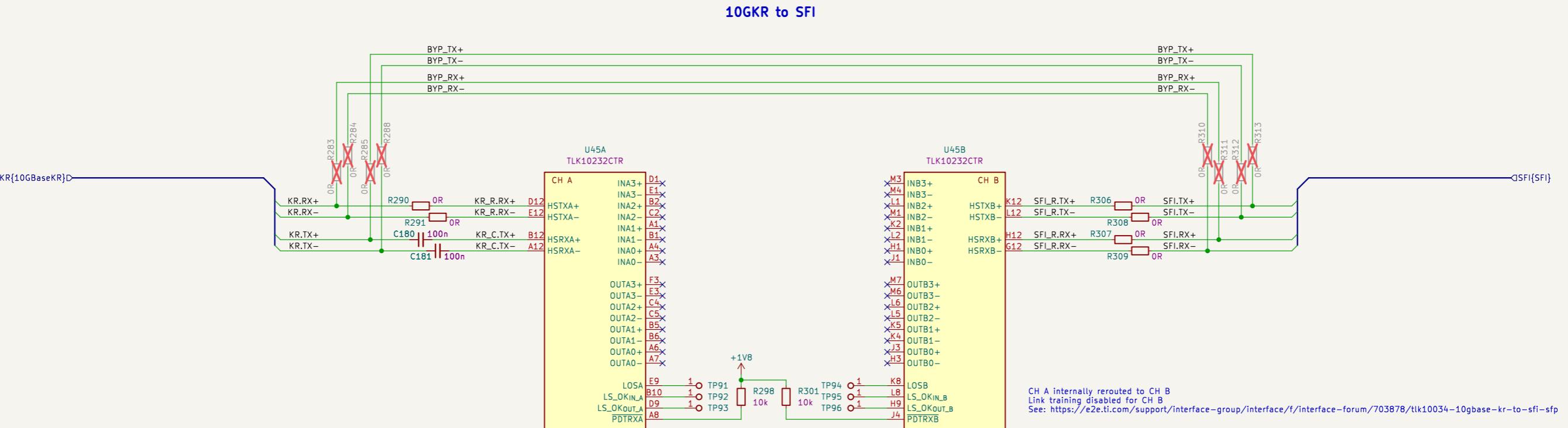
**Title: COM Express 7 Baseboard**

Size: A3 Date: 2024-12-13

KiCad E.D.A. 8.0.5

Rev: 1.1.0:e04f7

Id: 17/19



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Sheet: /2xSFP+/KR to SFI #2/

File: kr\_sfi.kicad\_sch

**Title: COM Express 7 Baseboard**

Size: A3 Date: 2024-12-13

KiCad E.D.A. 8.0.5

Rev: 1.1.0:e04f7

Id: 18/19

1 2 3 4 5 6 7 8

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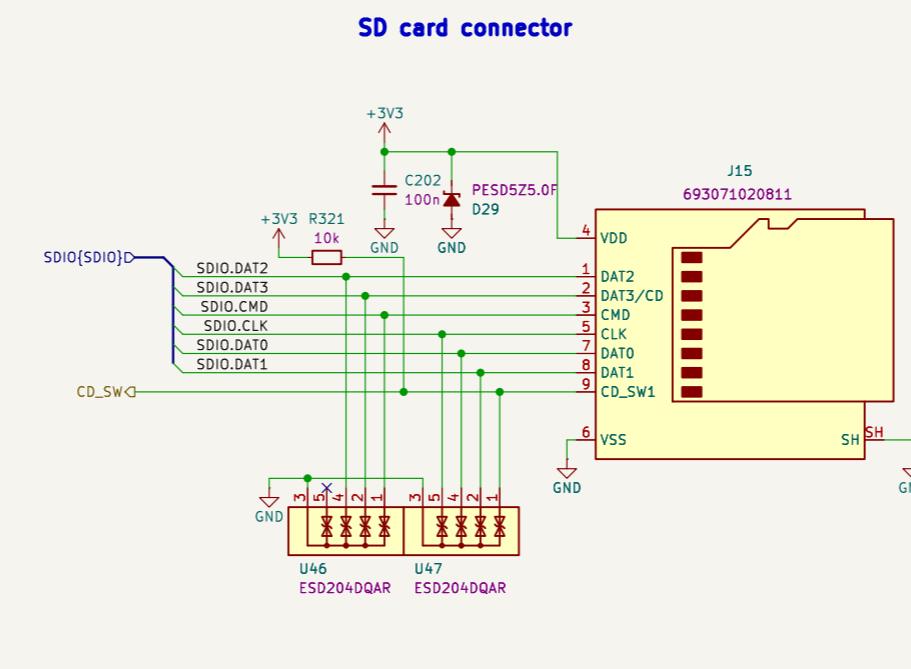
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Sheet: /SD card/

File: sd\_card.kicad\_sch

**Title: COM Express 7 Baseboard**

Size: A3 Date: 2024-12-13

KiCad E.D.A. 8.0.5

Rev: 1.1.0:e04f7

Id: 19/19

1 2 3 4 5 6 7 8