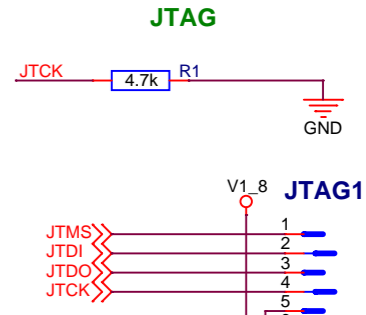
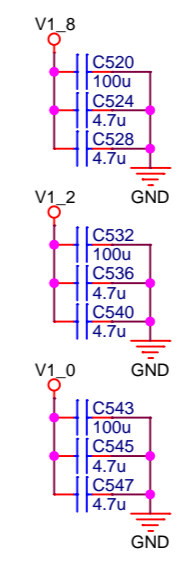
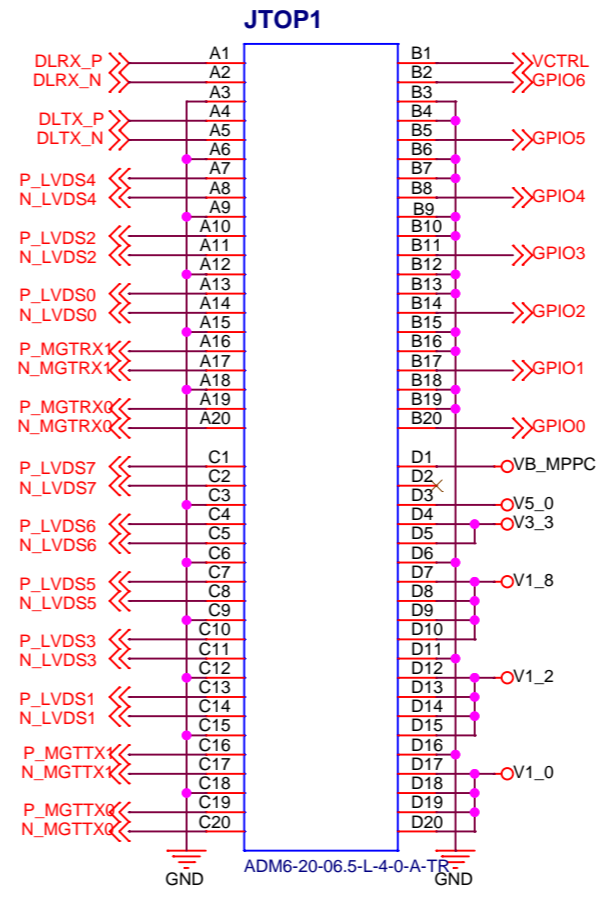
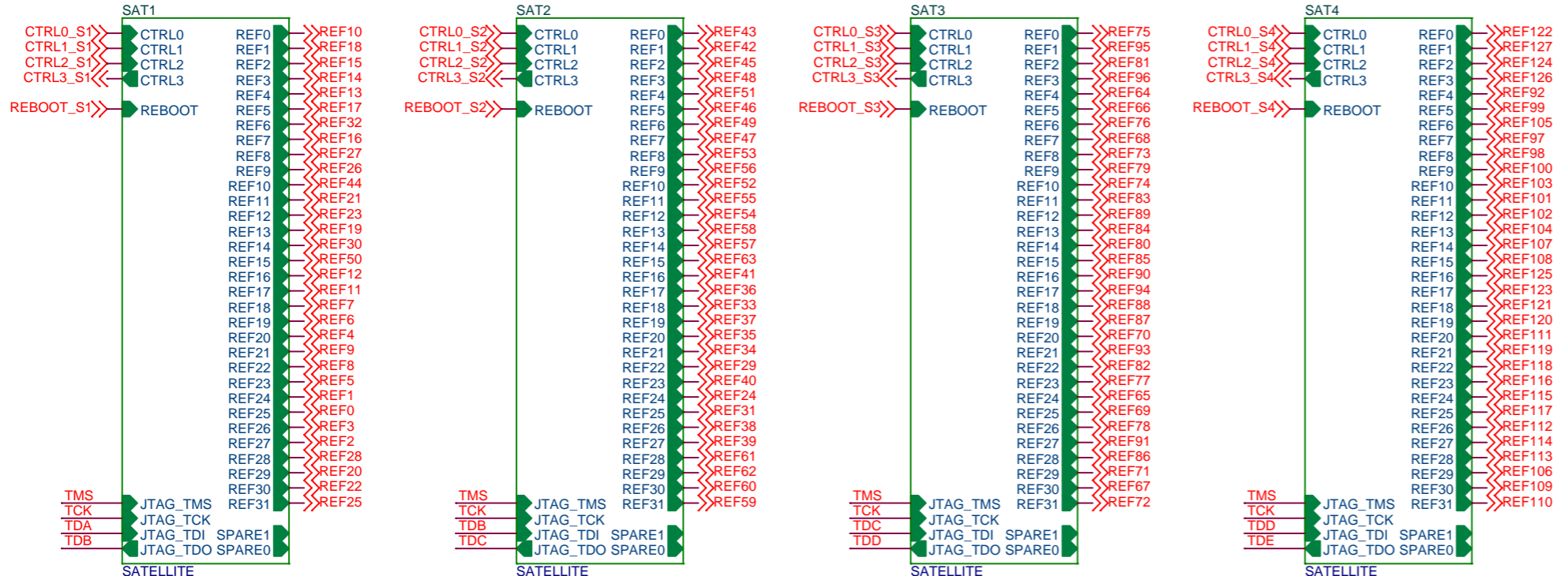
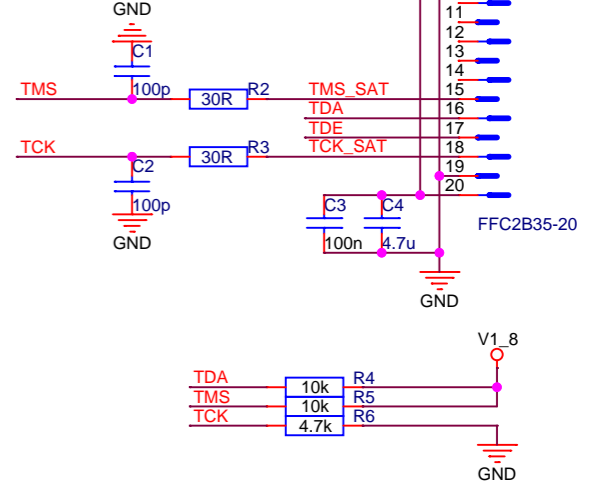


FEB_IOx auf TOP routen

REF Signale können in Minimalabstand geroutet werden (statisch)



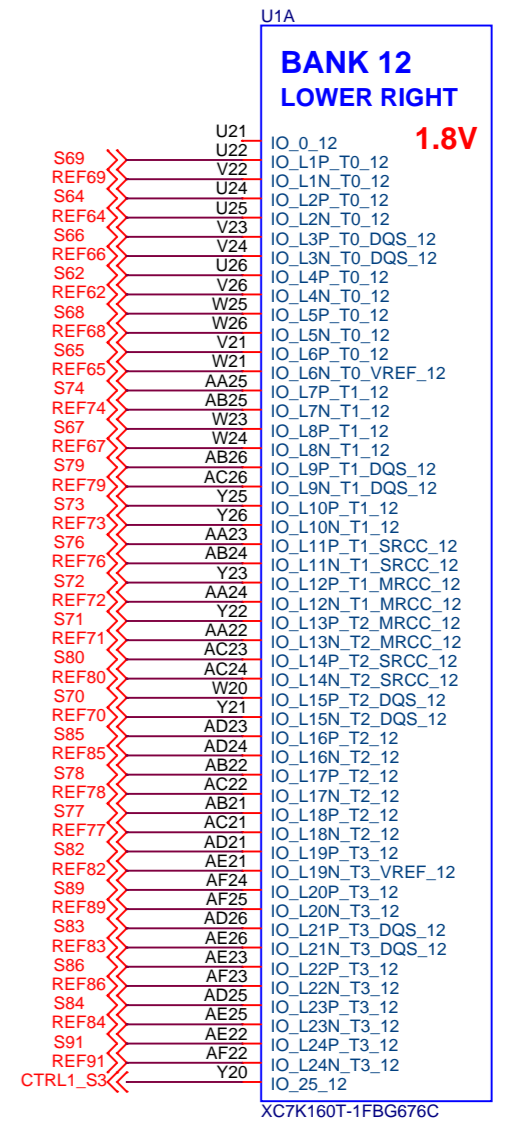
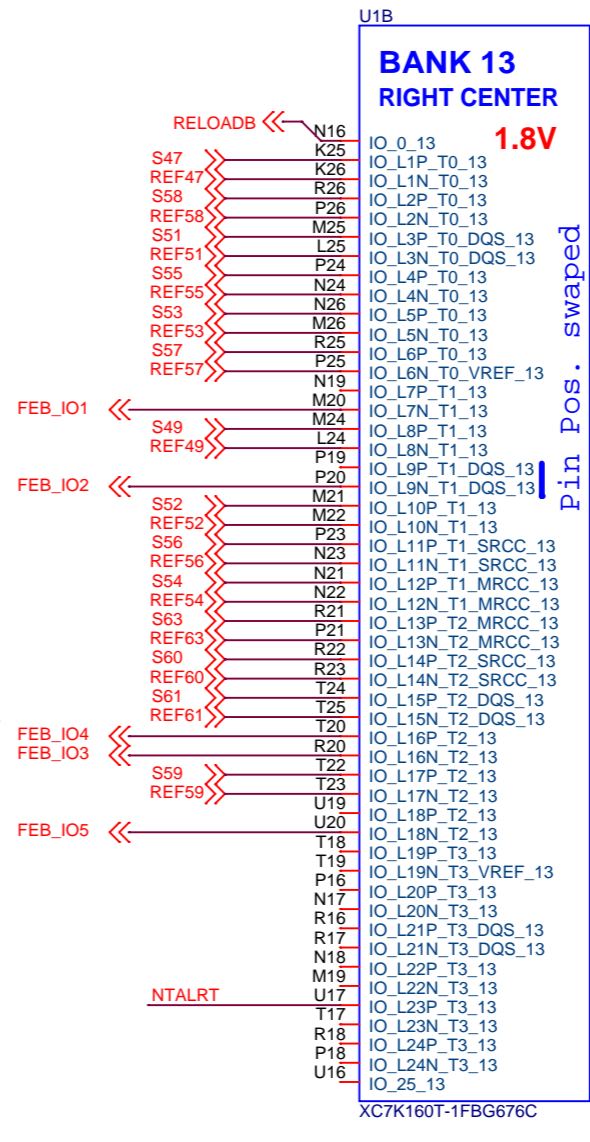
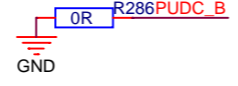
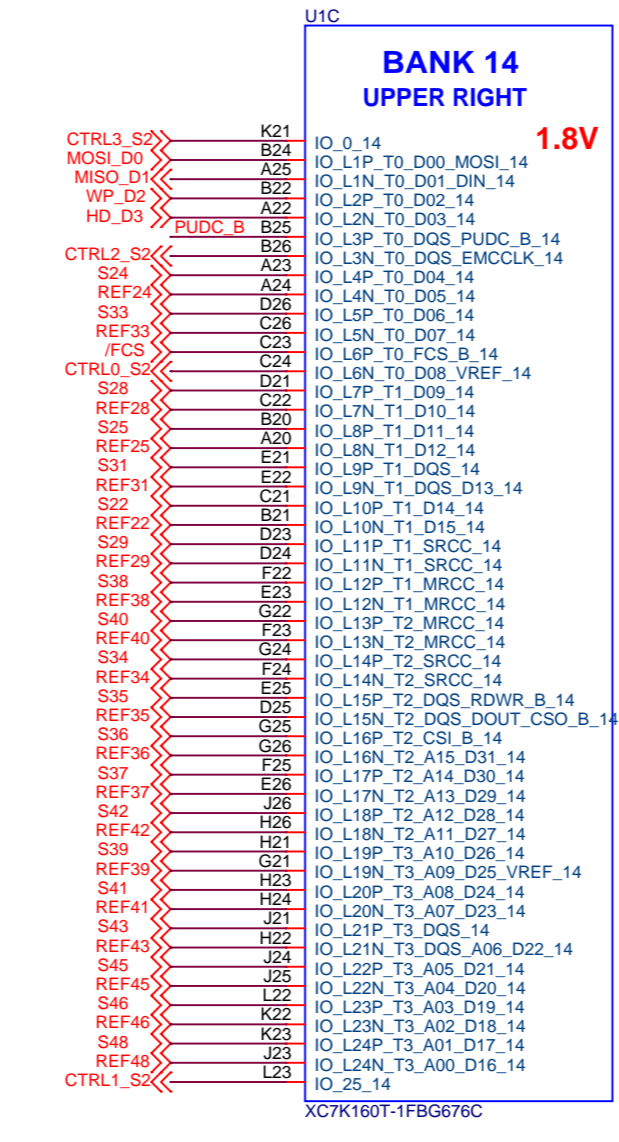
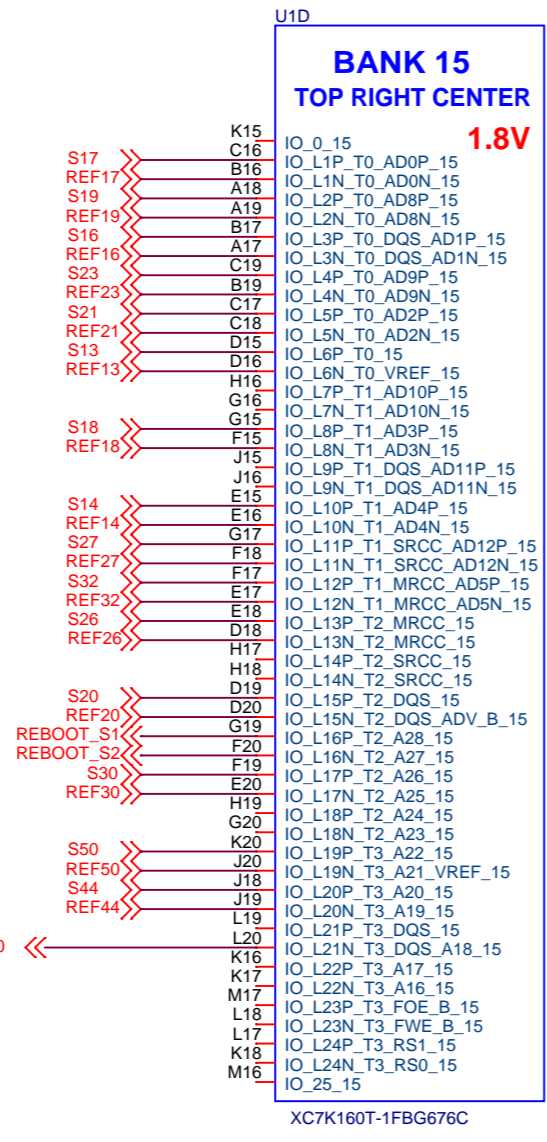
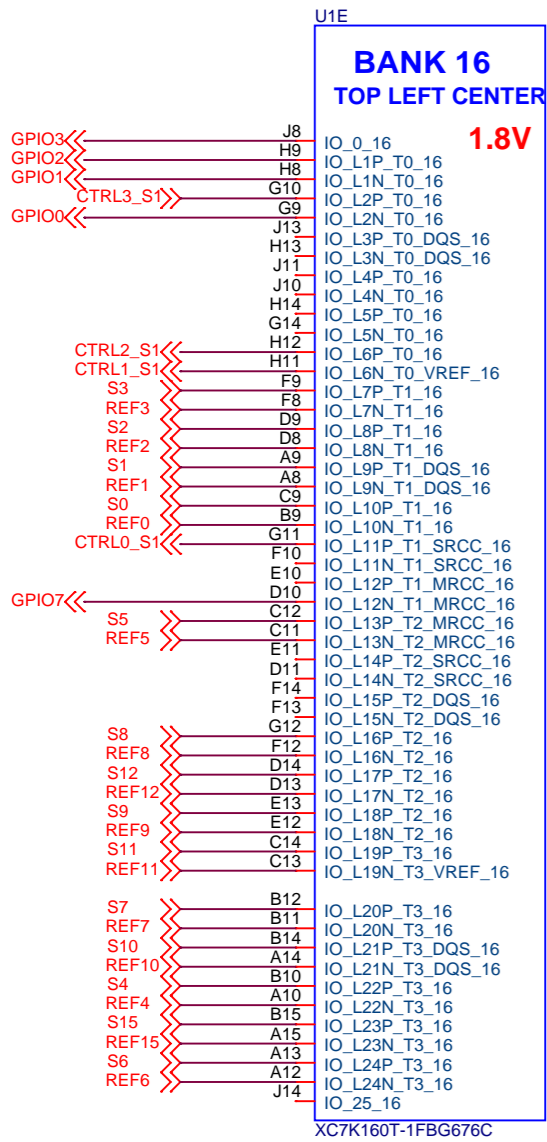
Noch 2-4 LVDS I/O anschliessen?



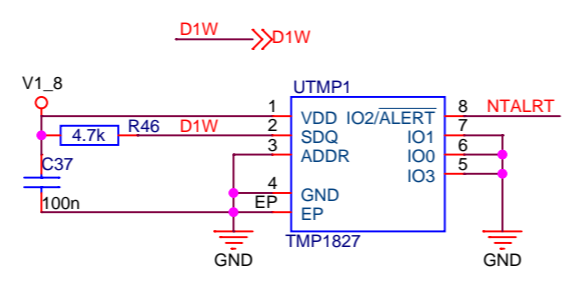
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I/O, SATELLITE FPGAS

| | | |
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| Design: K:\GSIJOB\SCIFI\SCIFI_652 TDC1\SCIFI_652 TDC1.DSN | Size: A3 | Page: 1 / 137 |
| Modified: Thursday, March 06, 2025 | Designer: H. Heggen | |
| Layouter: H. Kavan | | |



ACHTUNG: Hier keine LVDS Outputs möglich wegen VCCIO=1.8V!

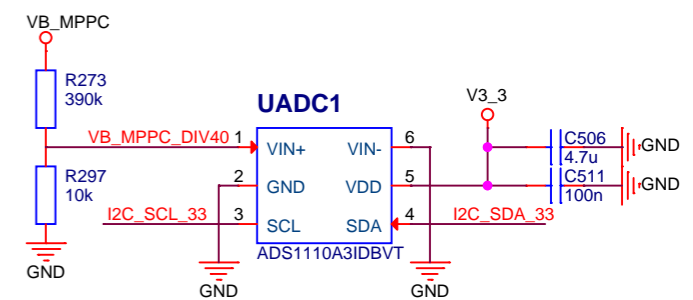
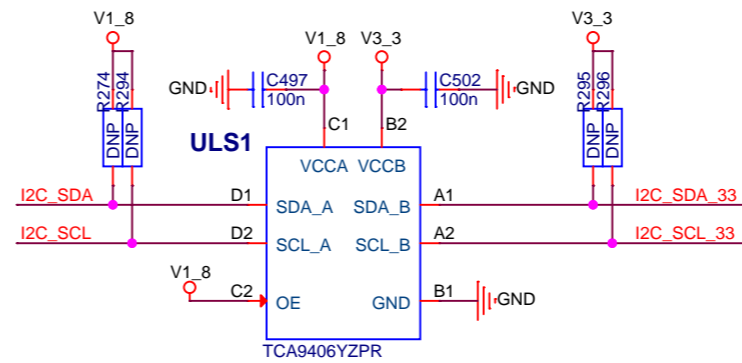
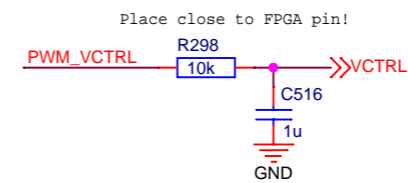
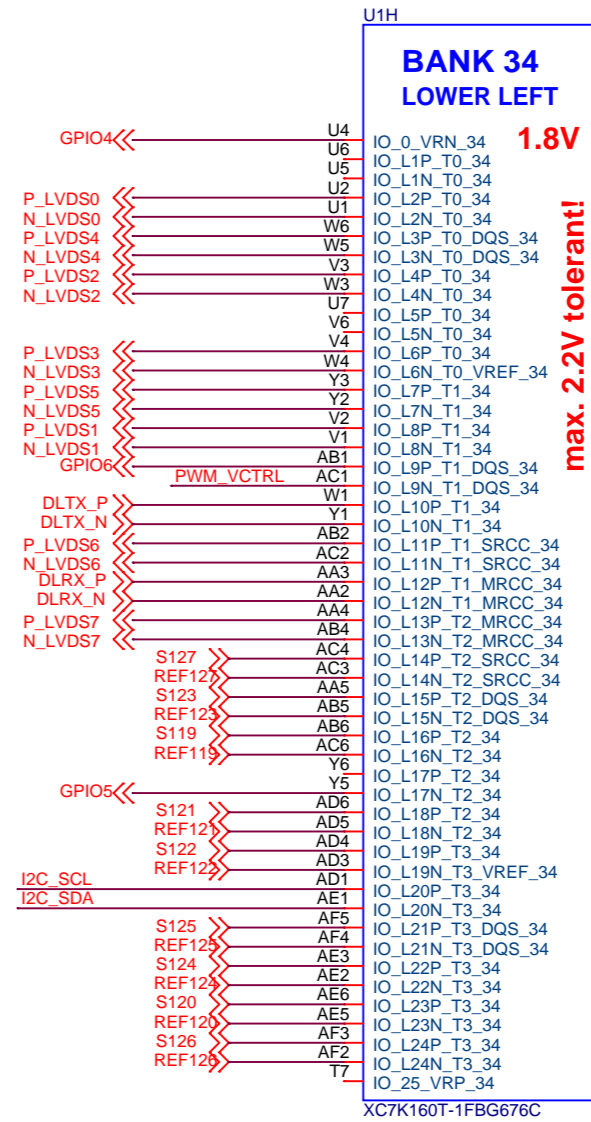
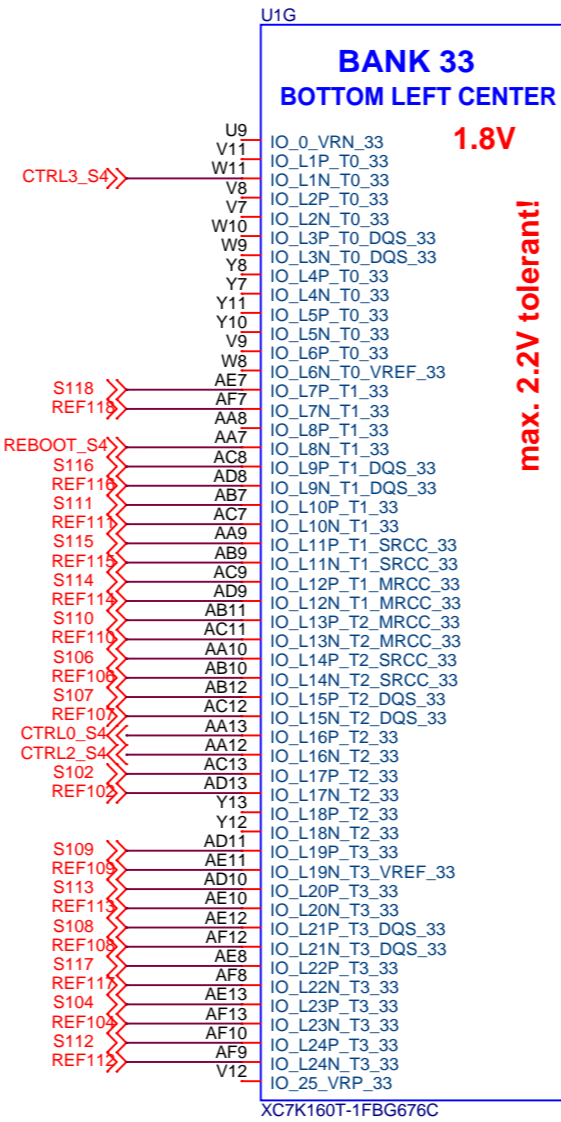
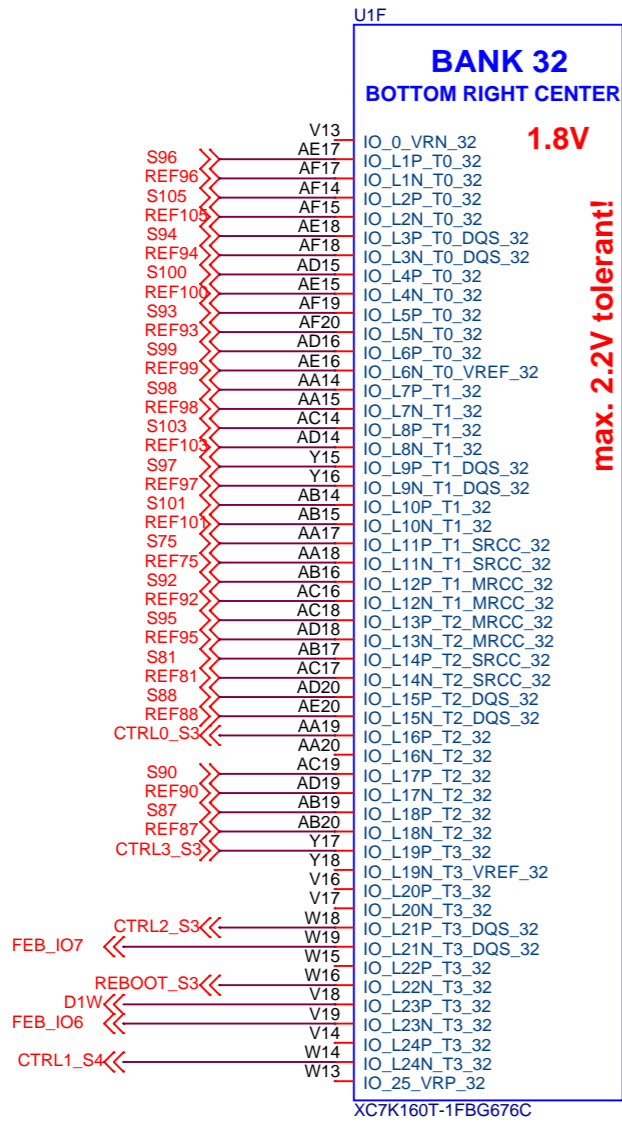


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FPGA HIGH RANGE BANKS (1.8V IO -> no LVDS out!)

Design: K:\GSIJOB\SCIFI\SCIFI_652_TDC1\SCIFI_652_TDC1.DSN
Modified: Thursday, March 06, 2025
Designer: H. Heggen

Size: A3
Page: 2 / 13
Layouther: H.Kayan



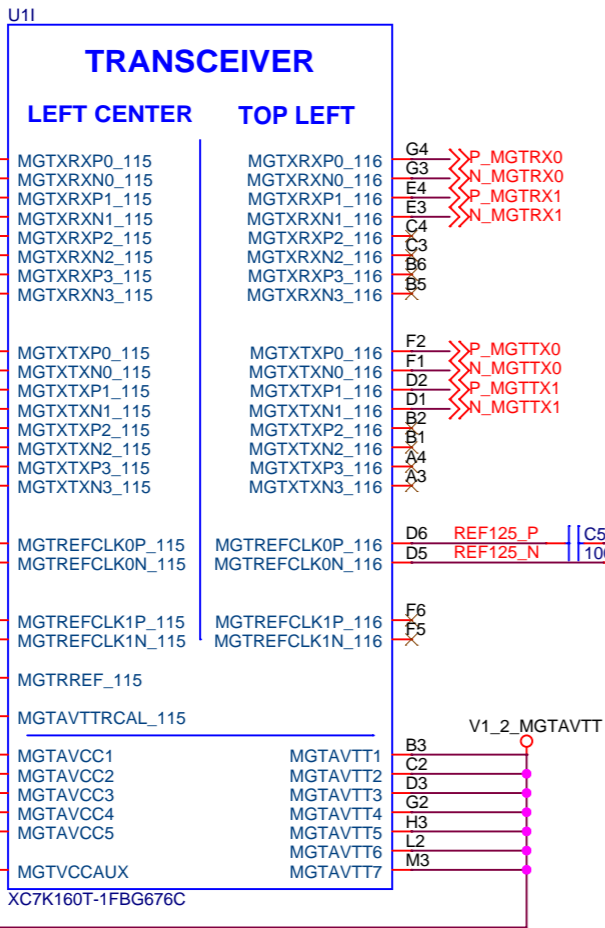
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FPGA HIGH PERFORMANCE BANKS (1.8V IO)

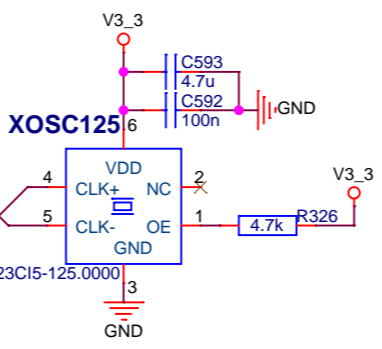
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Modified: Thursday, March 06, 2025
Designer: H. Heggen

Size: A3
Page: 3 / 13
Layouter: H. Kavan

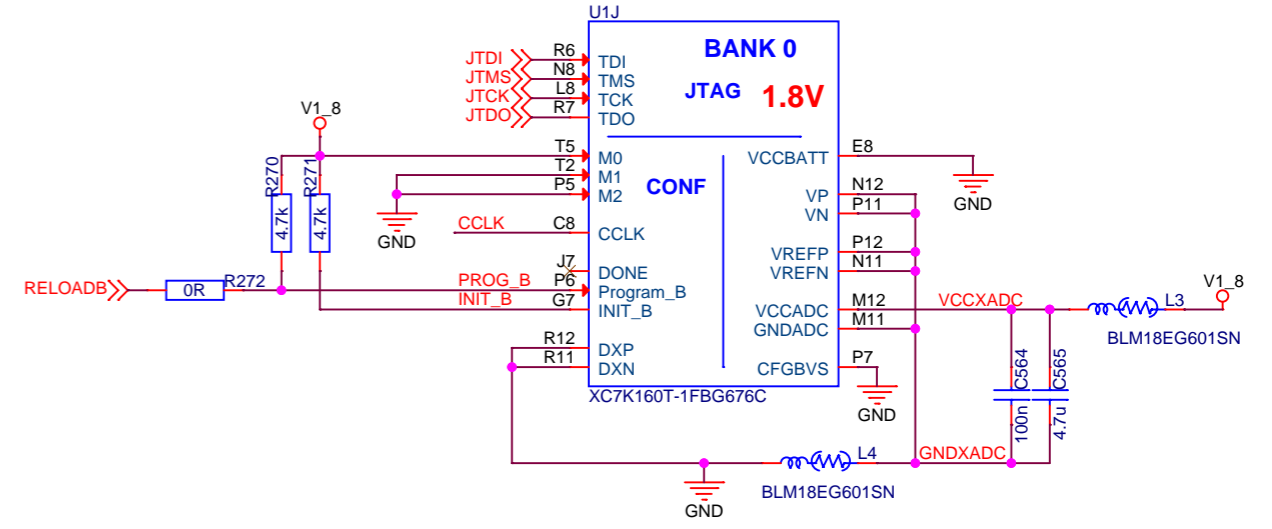
SERDES bank



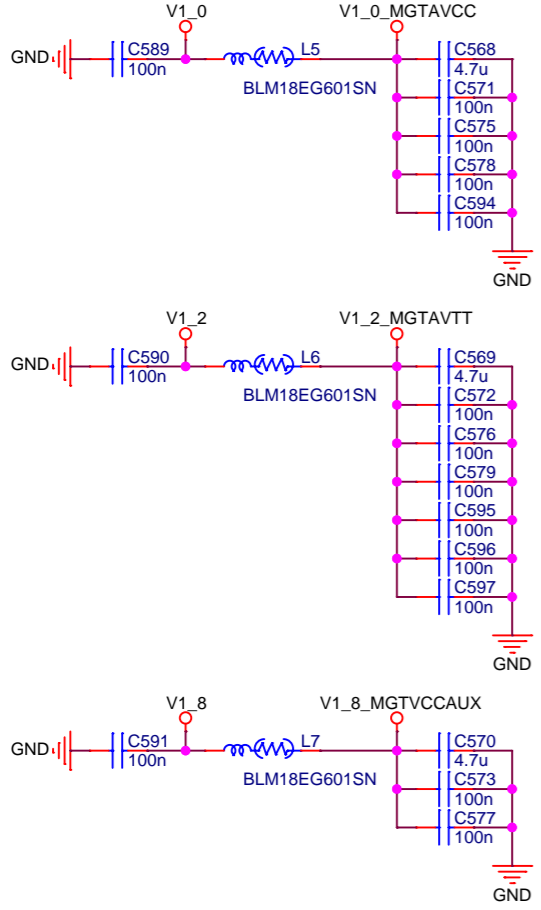
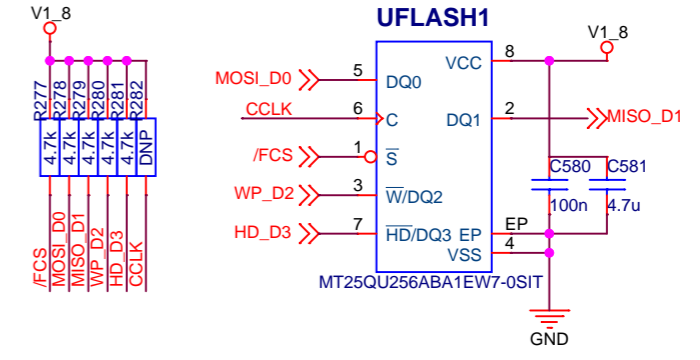
Leiterbahnen gleicher Länge!



Configuration bank



SPI Flash



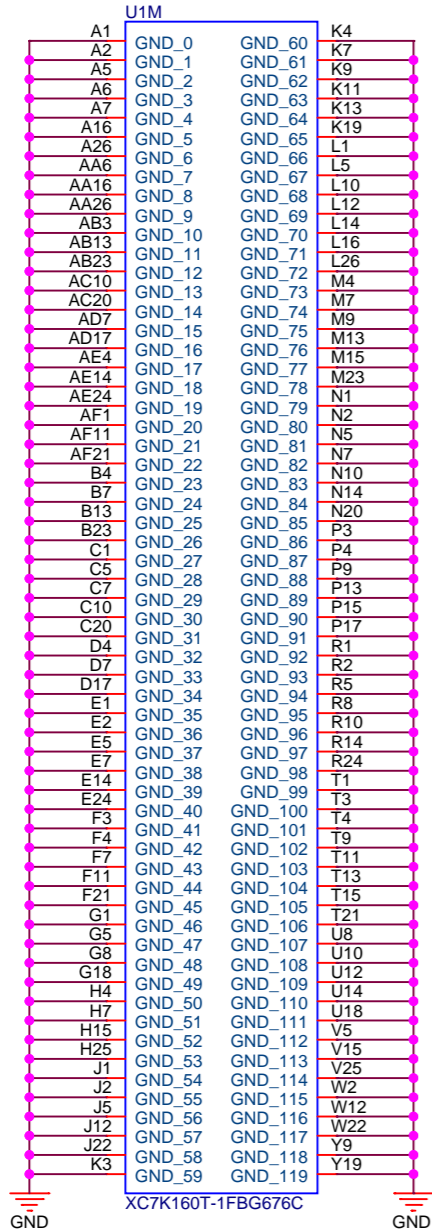
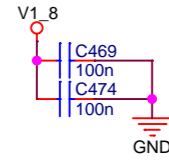
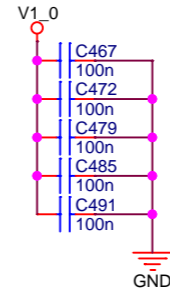
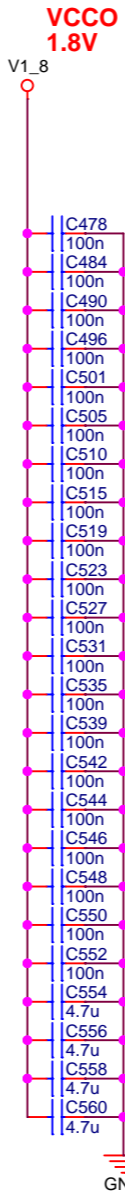
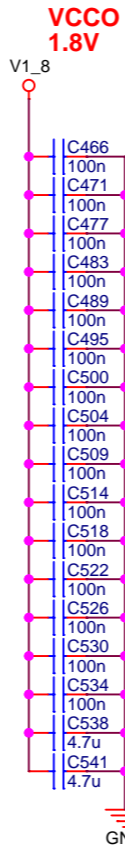
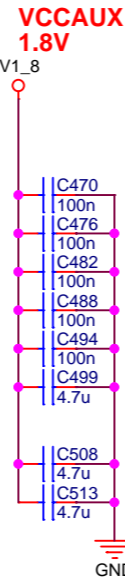
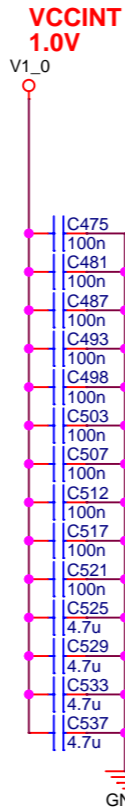
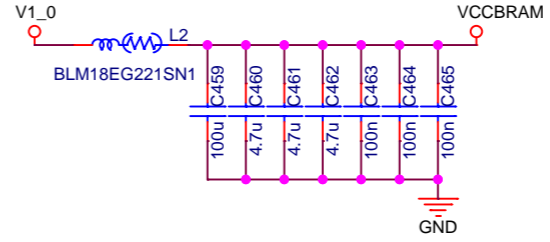
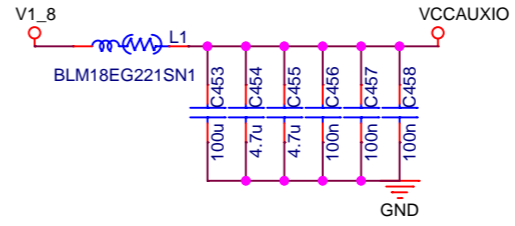
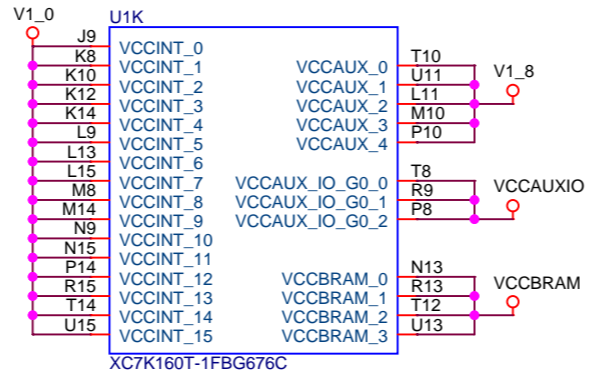
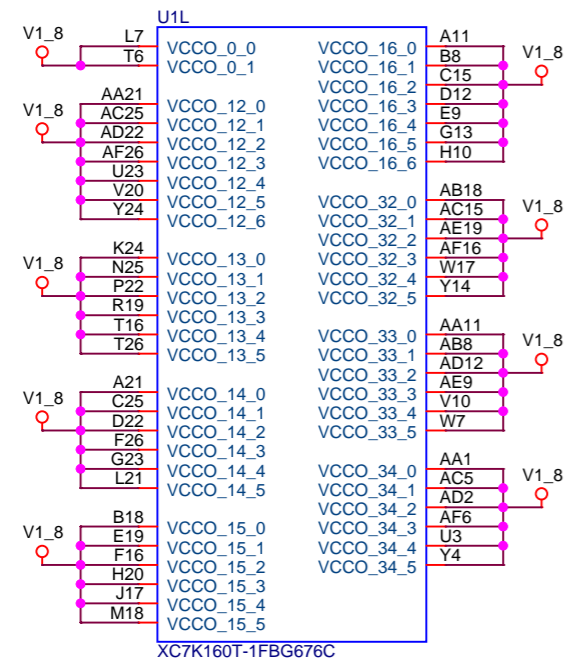


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FPGA MGT BANKS & CONFIG

Design: K:\GSIJOB\SCIFI\SCIFI_652_TDC1\SCIFI_652_TDC1.DSN
Modified: Thursday, March 06, 2025
Designer: H. Heggen

Size: A3
Page: 4 / 137
Layouter: H. Kayan

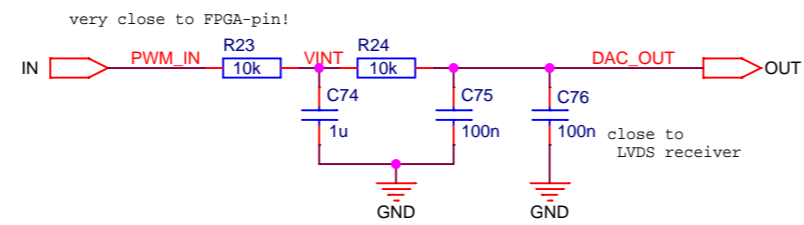


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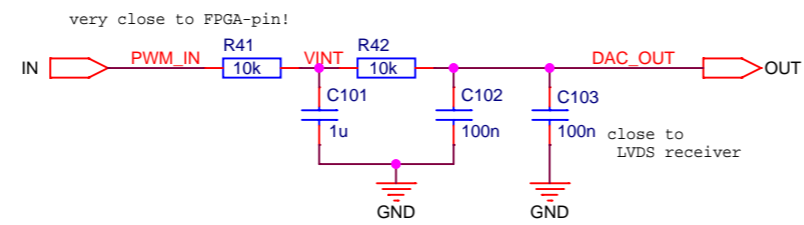
FPGA POWER

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Modified: Thursday, March 06, 2025
Designer: H. Heggen

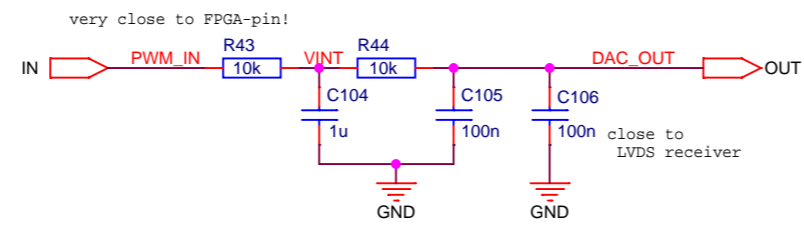
Size: A3
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Layouter: H. Kavan



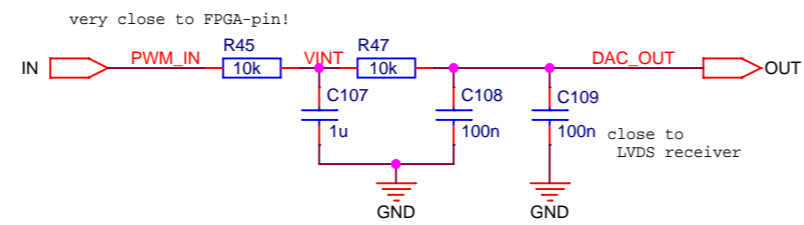
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|  | Gesellschaft für Schwerionenforschung mbH Planckstrasse 1 D-64291 Darmstadt GERMANY www.gsi.de | |
| | PWM DAC low-pass filter | |
| Design: K:\GSI\JOB\SCIF\SCIFI_652_TDC1\SCIFI_652_TDC1.DSN | | Size: A3 |
| Modified: Thursday, March 06, 2025 | | Page: 6 / 13 |
| Designer: H. Hagen | | Layouter: H. Kavan |



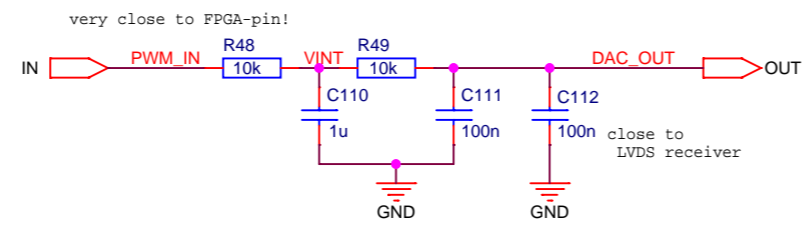
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| Designer: H. Hagen | | Layouter: H. Kavan |



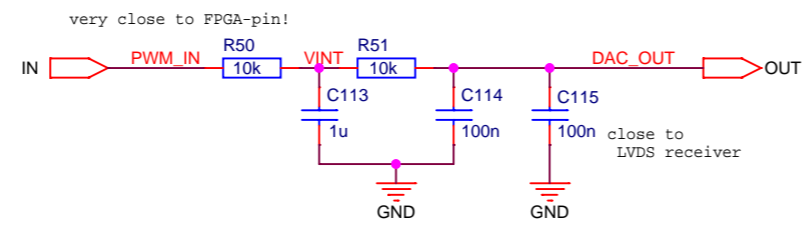
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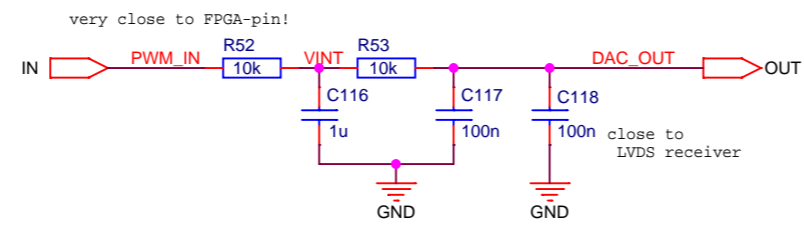
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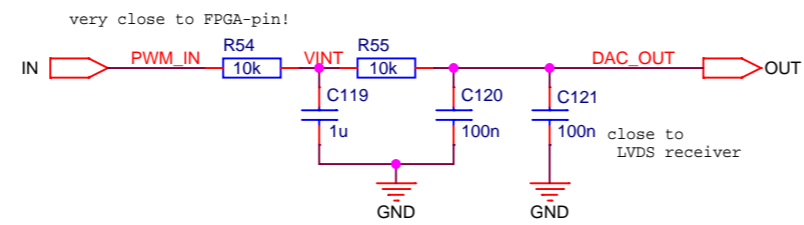
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| Modified: Thursday, March 06, 2025 | | Page: 10/ 137 |
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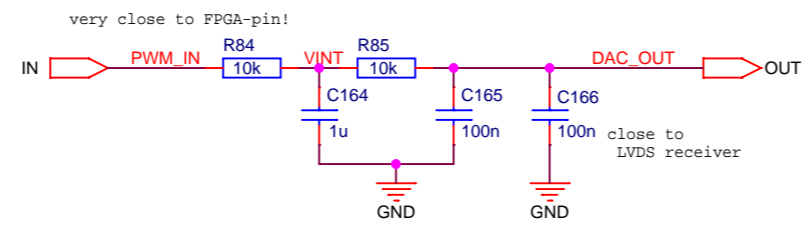
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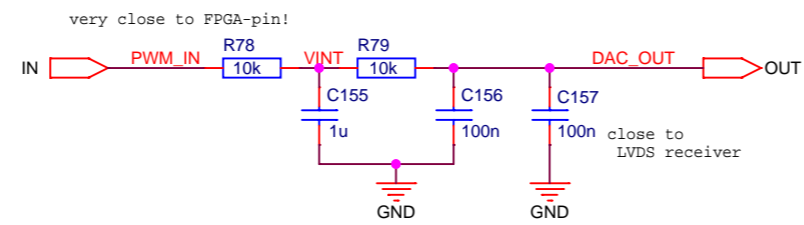
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| Modified: Thursday, March 06, 2025 | | Page: 12/ 13 |
| Designer: H. Hagen | | Layouter: H. Kavan |



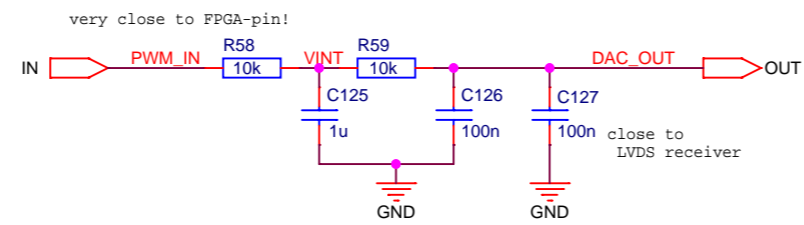
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| Modified: Thursday, March 06, 2025 | | Page: 13/ 137 |
| Designer: H. Hagen | | Layouter: H. Kavan |



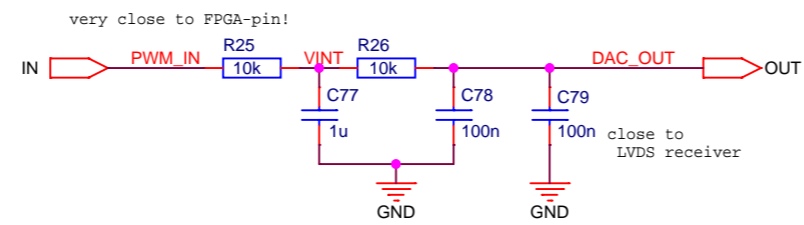
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| Modified: Thursday, March 06, 2025 | | Page: 14 / 137 |
| Designer: H. Hagen | | Layouter: H. Kavan |



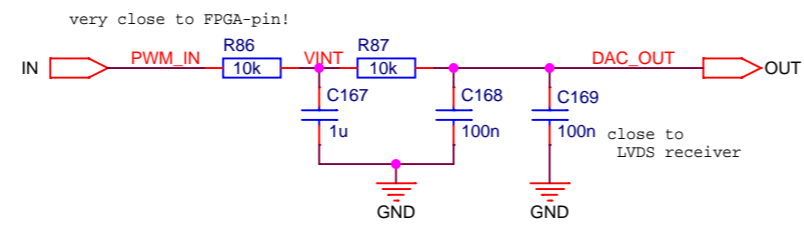
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| Designer: H. Hagen | | Layouter: H. Kavan |



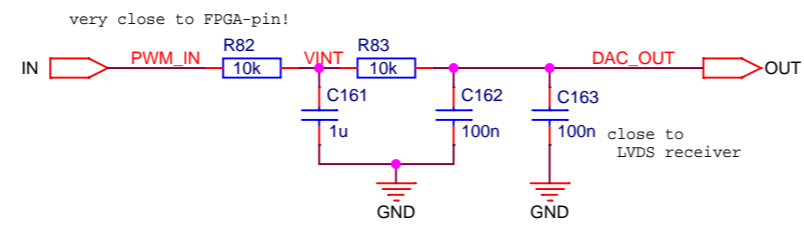
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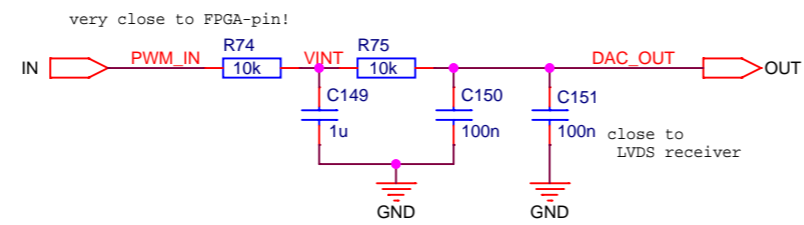
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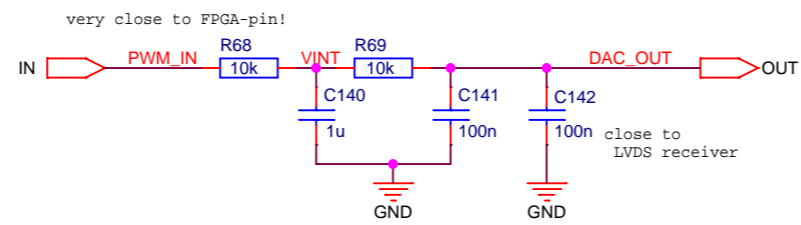
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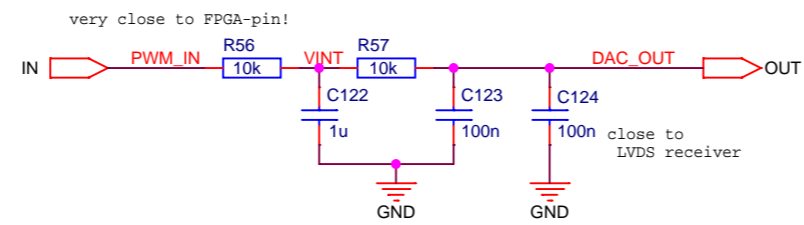
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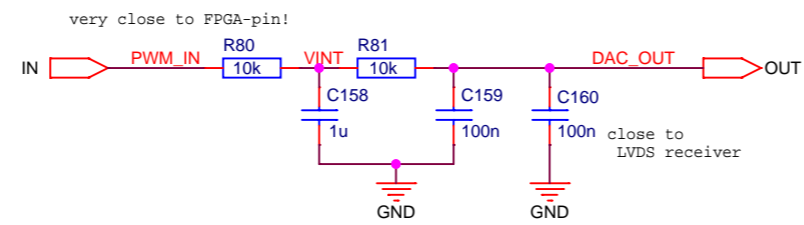
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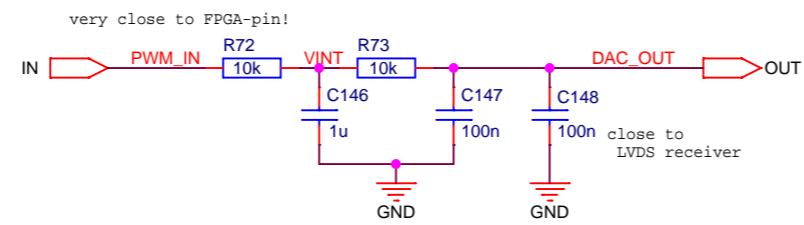
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| Modified: Thursday, March 06, 2025 | | Page: 21/ 137 |
| Designer: H. Hagen | | Layouter: H. Kavan |



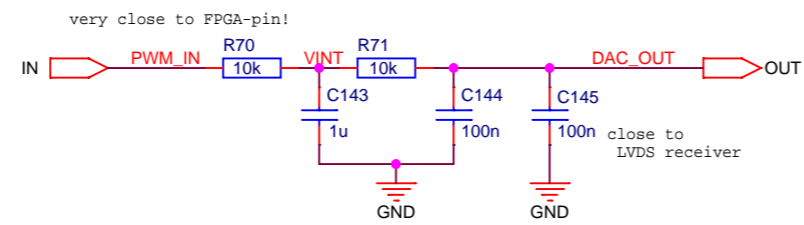
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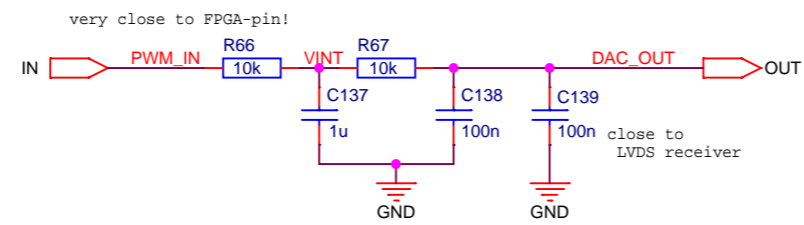
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|  | Gesellschaft für Schwerionenforschung mbH Planckstrasse 1 D-64291 Darmstadt GERMANY www.gsi.de | |
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| Modified: Thursday, March 06, 2025 | | Page: 23/ 137 |
| Designer: H. Hagen | | Layouter: H. Kavan |



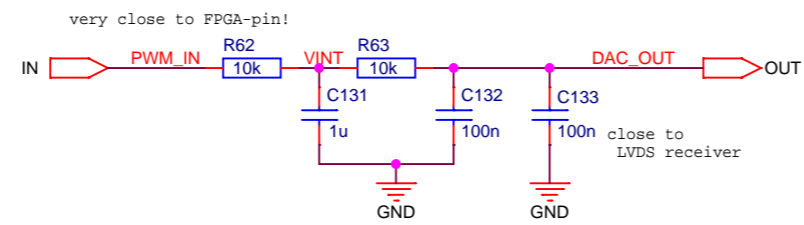
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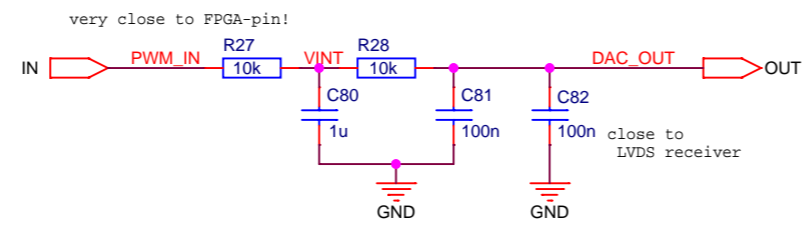
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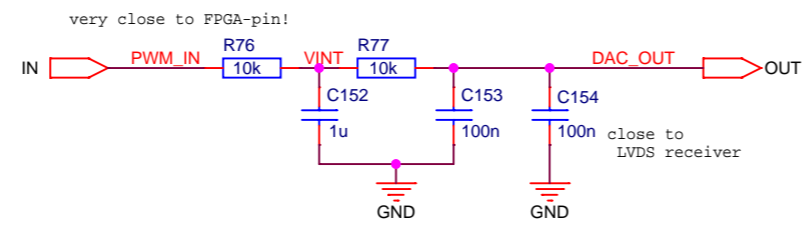
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| Designer: H. Hagen | | Page: 26 / 137 Layouter: H. Kavan |



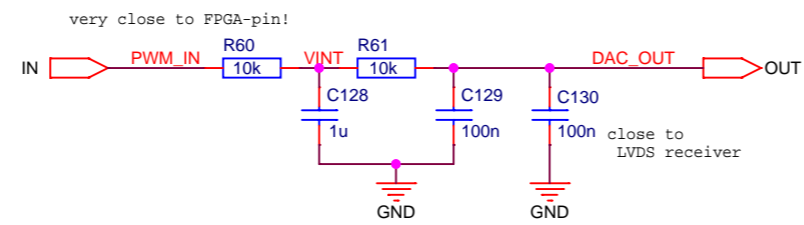
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| Designer: H. Hagen | | Layouter: H. Kavan |



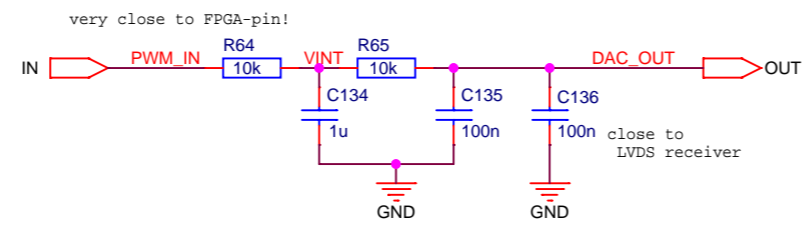
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| Modified: Thursday, March 06, 2025 | | Page: 28 / 137 |
| Designer: H. Hagen | | Layouter: H. Kavan |



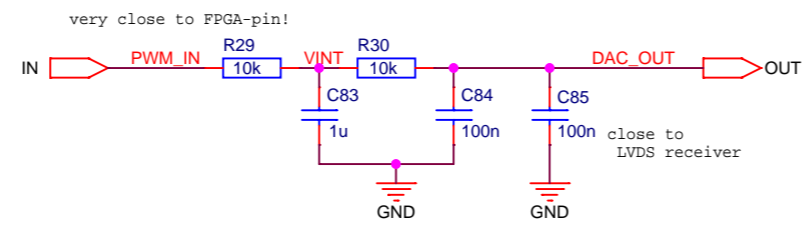
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| Modified: Thursday, March 06, 2025 | | Page: 29/ 137 |
| Designer: H. Hagen | | Layouter: H. Kavan |



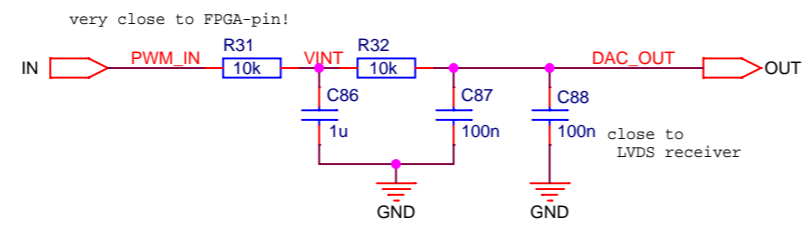
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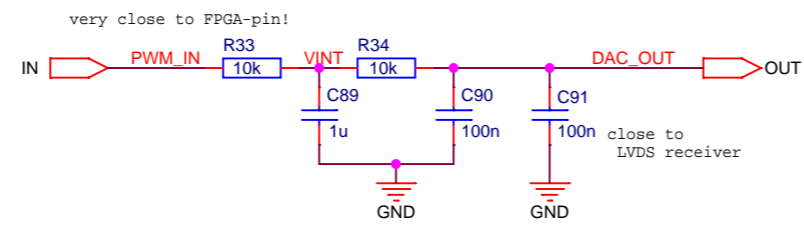
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| Modified: Thursday, March 06, 2025 | | Page: 31/ 137 |
| Designer: H. Hagen | | Layouter: H. Kavan |



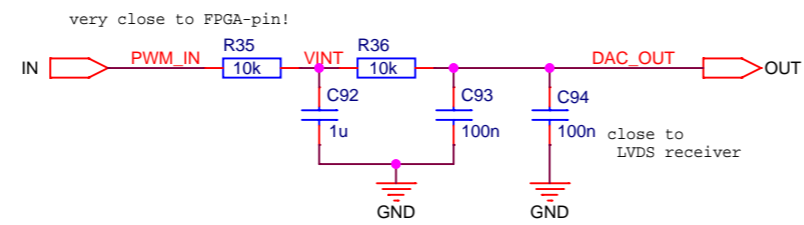
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| Designer: H. Haggren | | Layouter: H. Kavan |



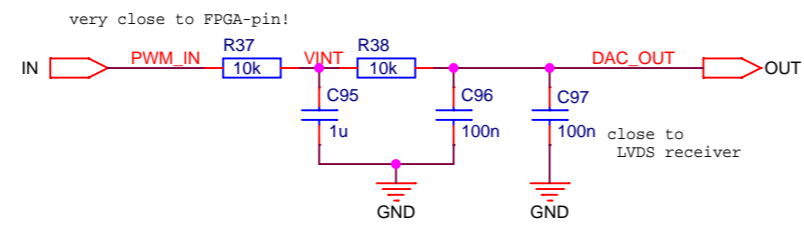
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| Modified: Thursday, March 06, 2025 | | Page: 33/ 137 |
| Designer: H. Haggren | | Layouter: H. Kavan |



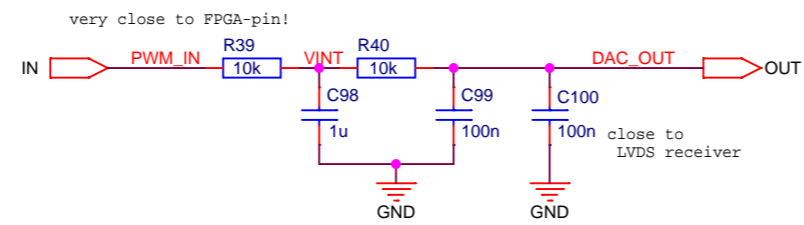
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| Modified: Thursday, March 06, 2025 | | Page: 34 / 137 |
| Designer: H. Hagen | | Layouter: H. Kavan |



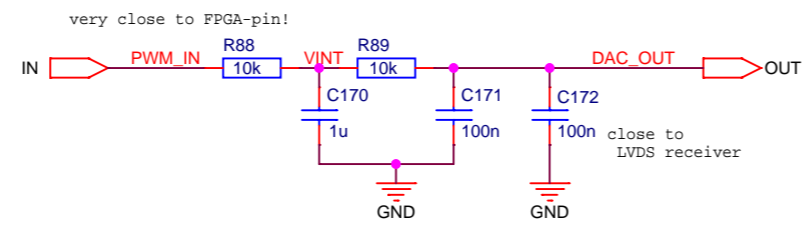
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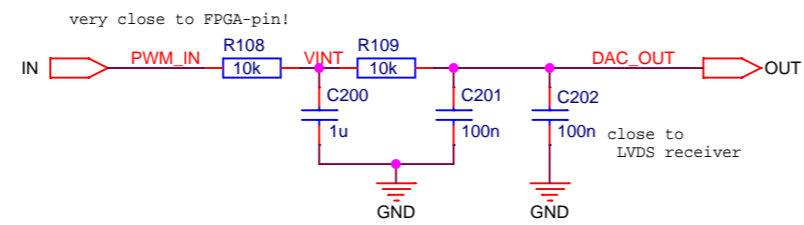
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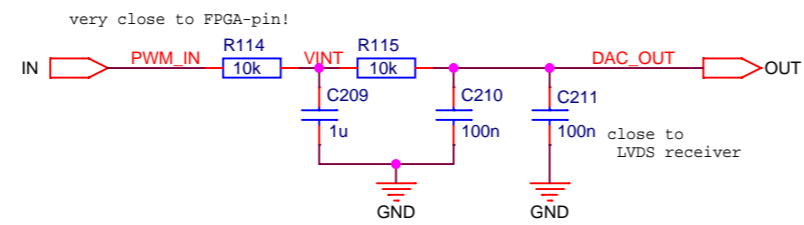
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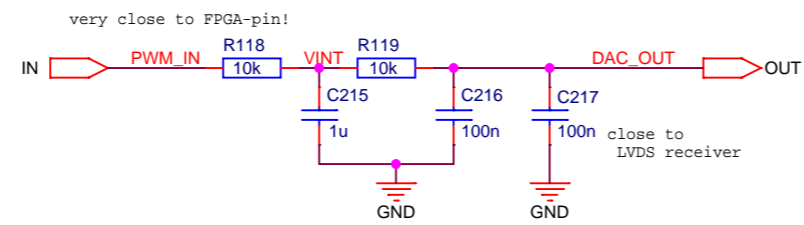
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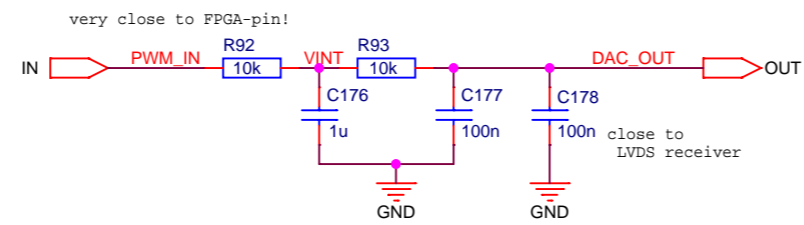
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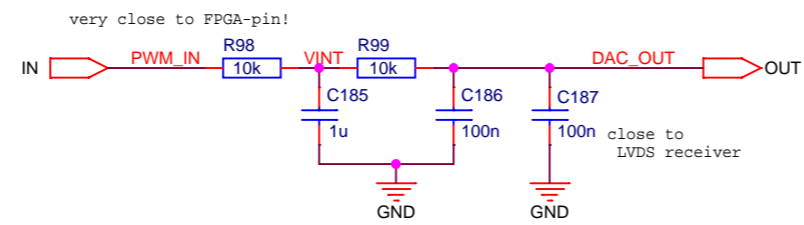
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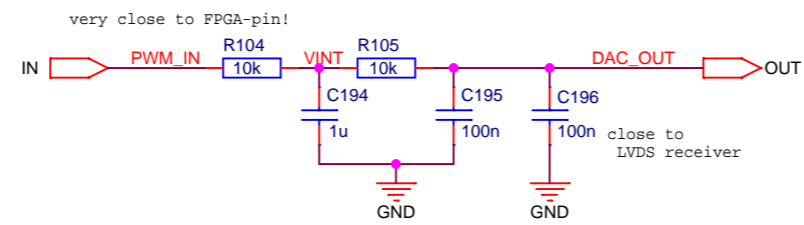
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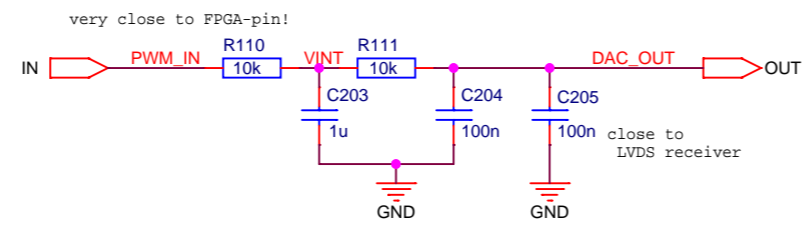
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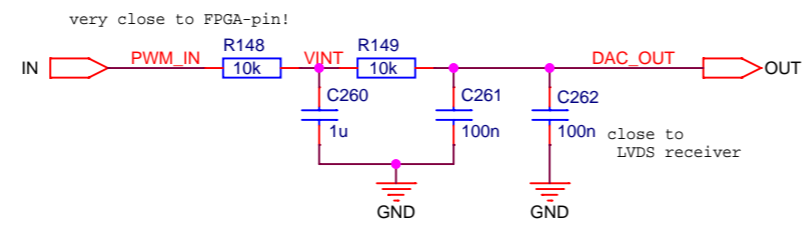
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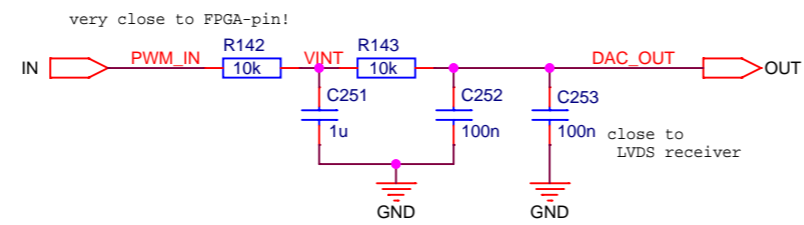
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| Designer: H. Hagen | | Layouter: H. Kavan |



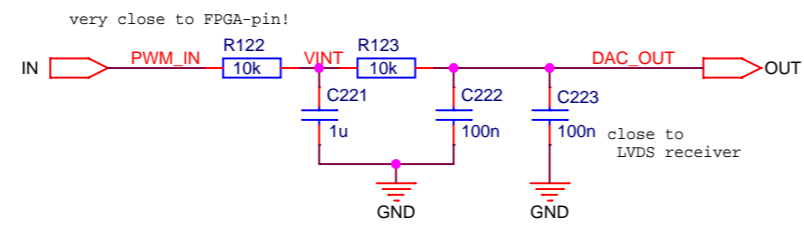
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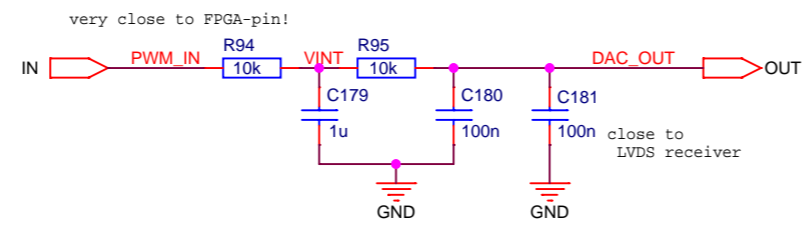
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| Designer: H. Hagen | | Layouter: H. Kavan |



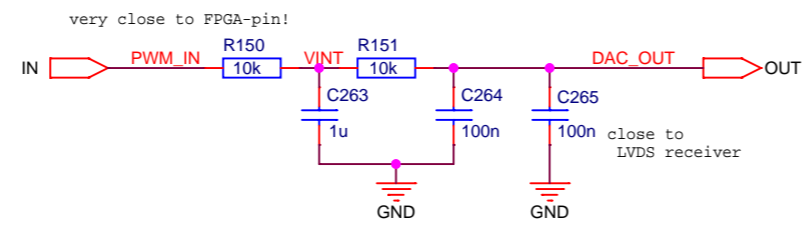
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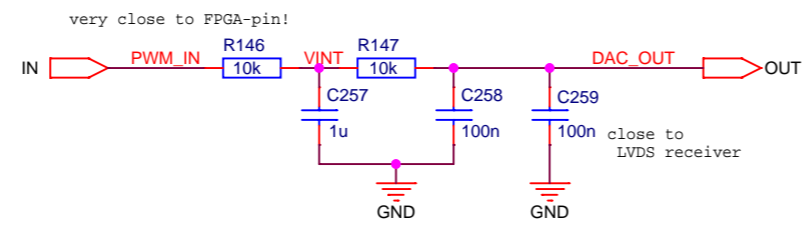
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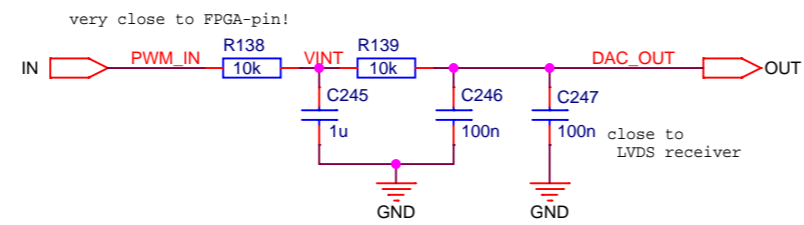
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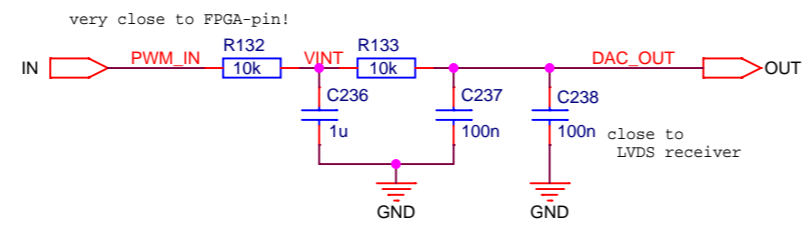
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| Designer: H. Haggren | | Layouter: H. Kavan |



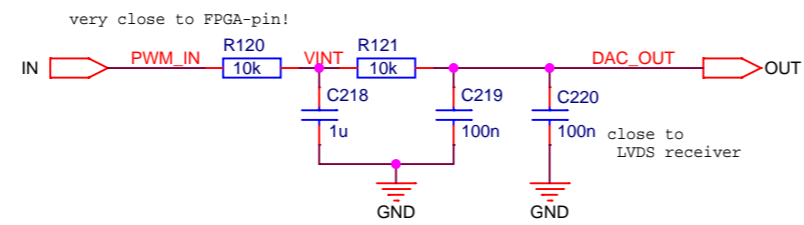
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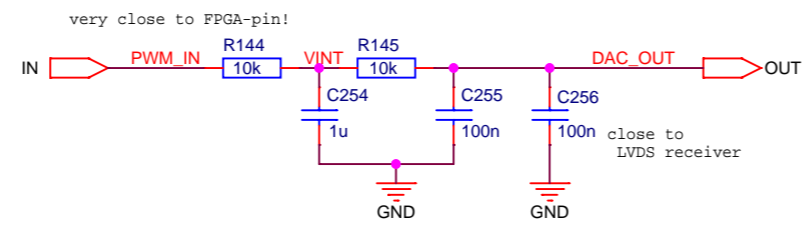
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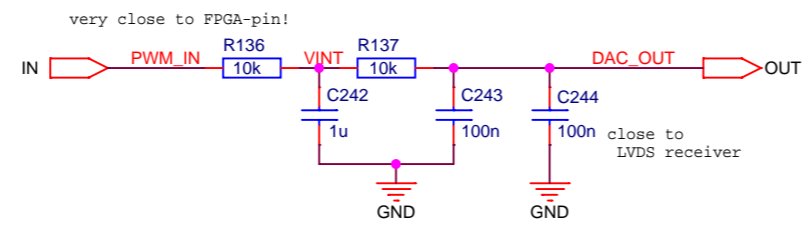
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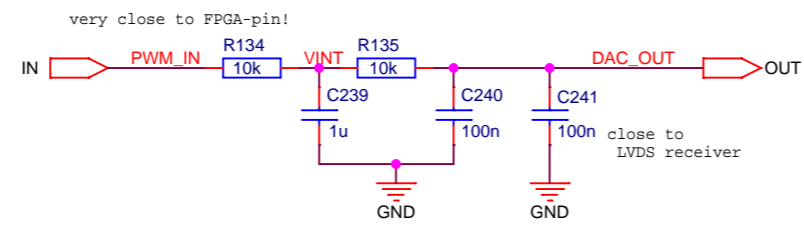
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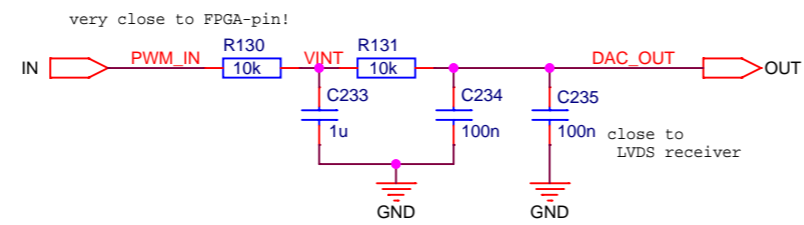
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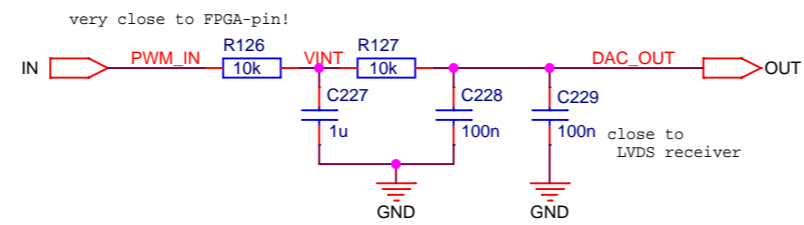
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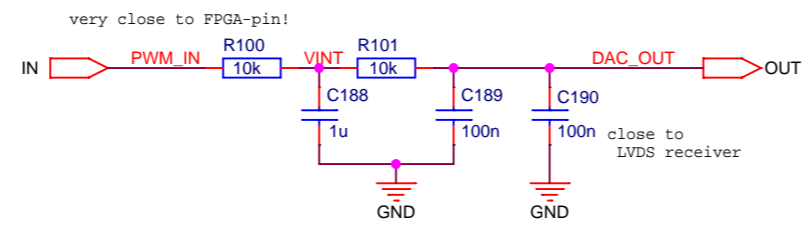
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| Modified: Thursday, March 06, 2025 | | Page: 57/ 137 |
| Designer: H. Haggren | | Layouter: H. Kavan |



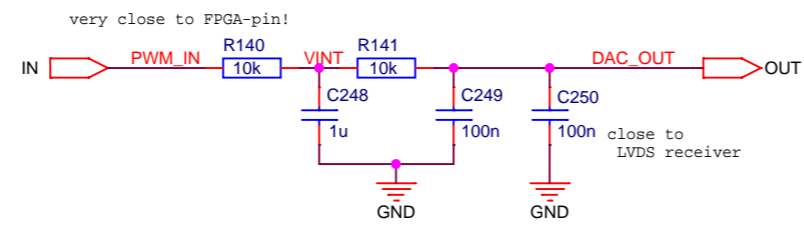
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| Modified: Thursday, March 06, 2025 | | Page: 58/ 137 |
| Designer: H. Haggren | | Layouter: H. Kavan |



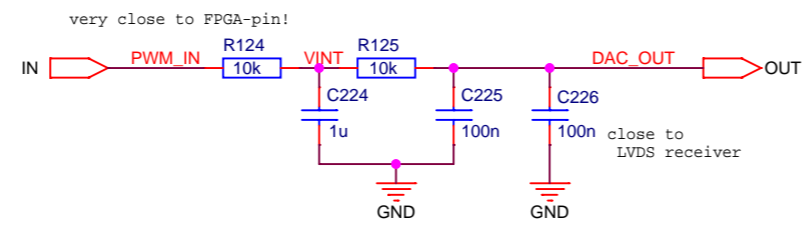
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| Modified: Thursday, March 06, 2025 | | Page: 59/ 137 |
| Designer: H. Hagen | | Layouter: H. Kavan |



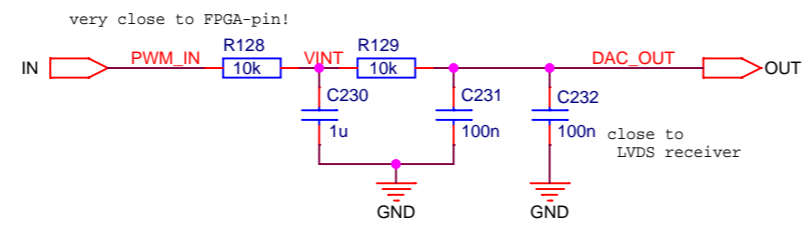
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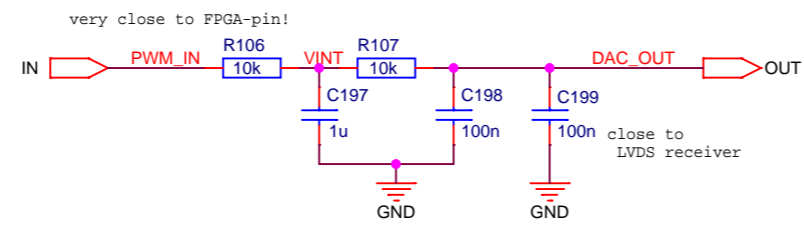
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| Modified: Thursday, March 06, 2025 | | Page: 61/ 137 |
| Designer: H. Hagen | | Layouter: H. Kavan |



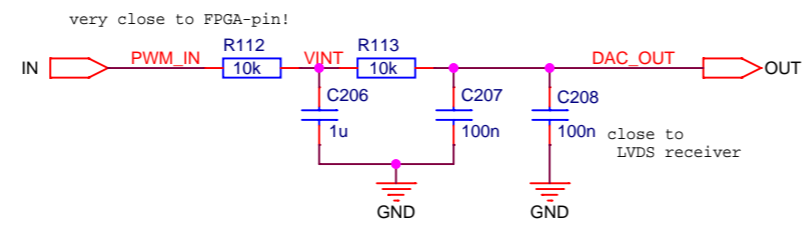
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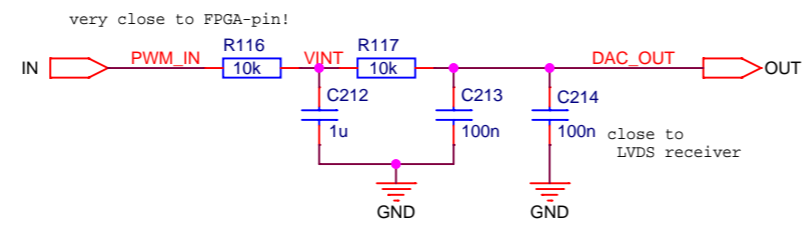
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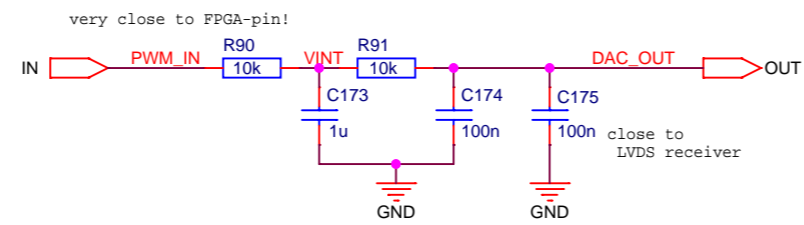
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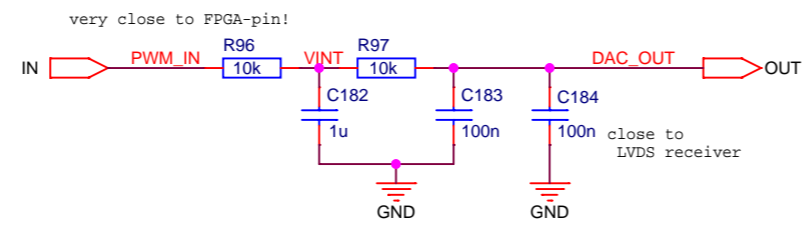
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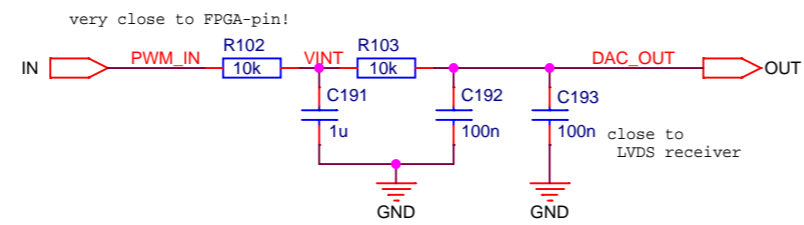
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| Designer: H. Hagen | | Layouter: H. Kavan |



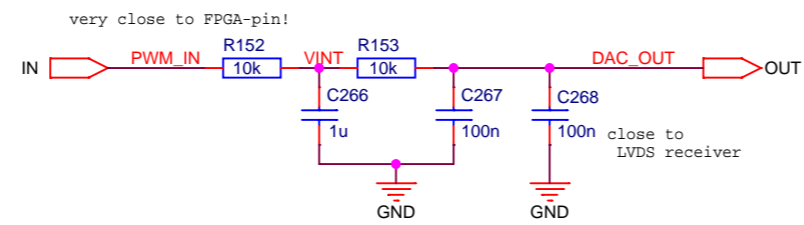
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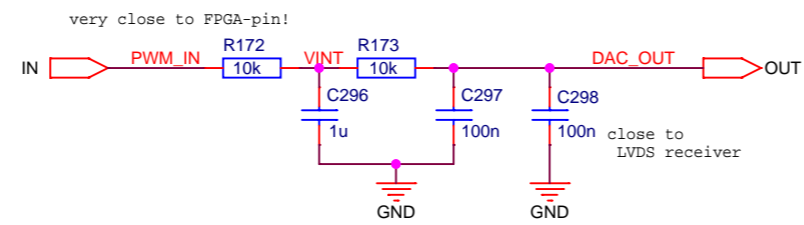
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| Designer: H. Hagen | | Layouter: H. Kavan |



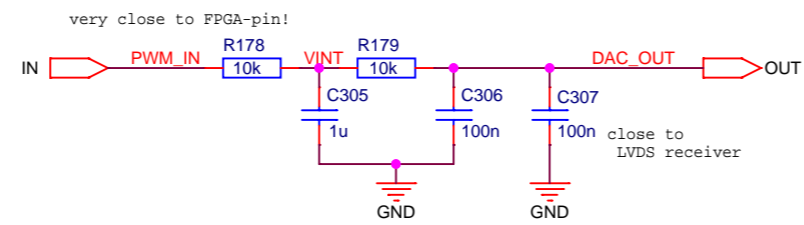
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| Designer: H. Hagen | | Layouter: H. Kavan |



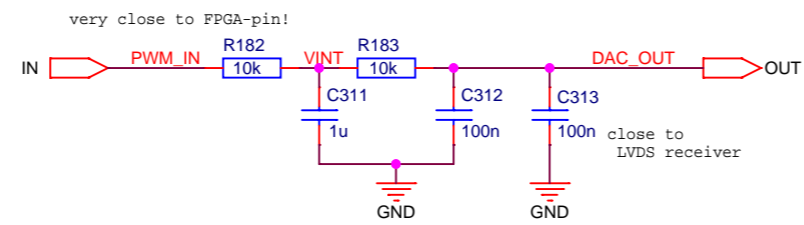
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| Designer: H. Hagen | | Layouter: H. Kavan |



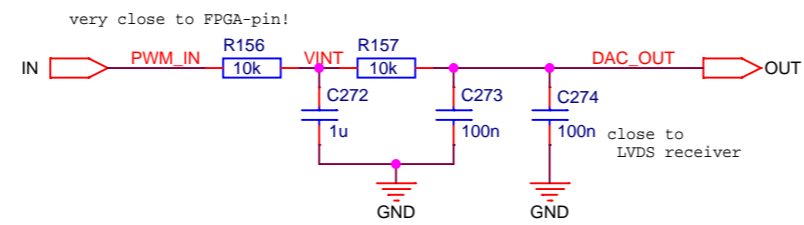
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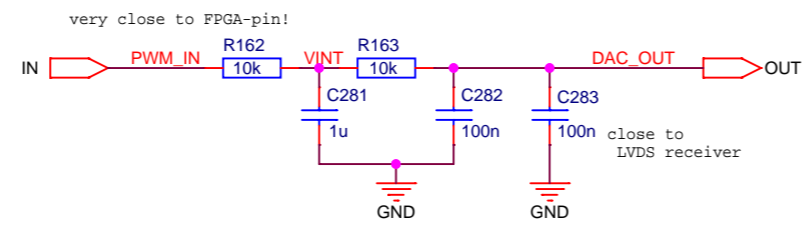
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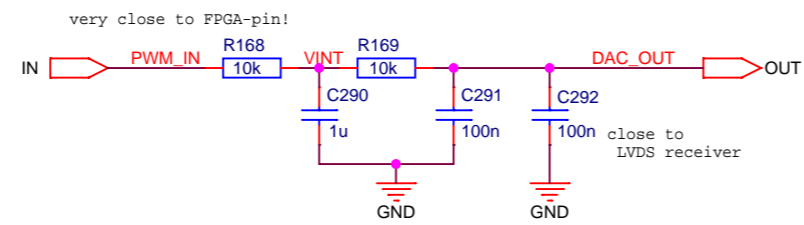
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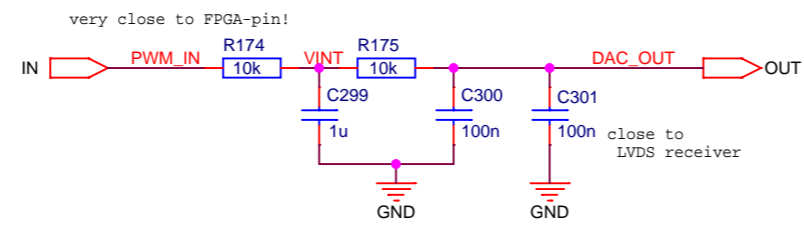
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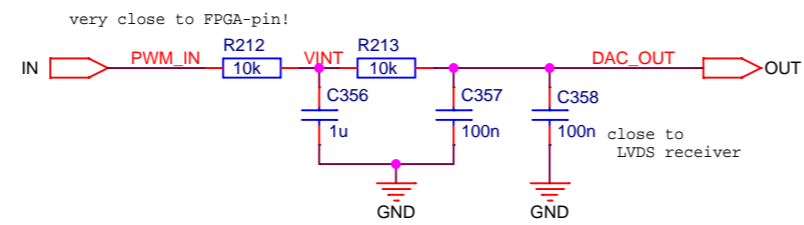
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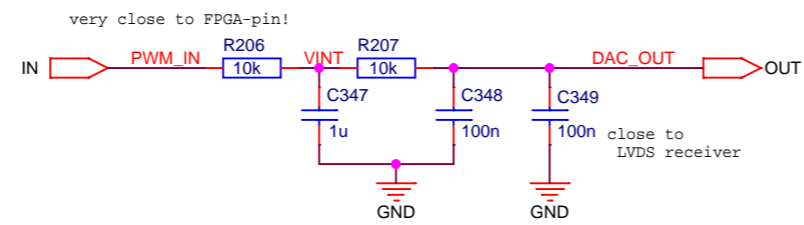
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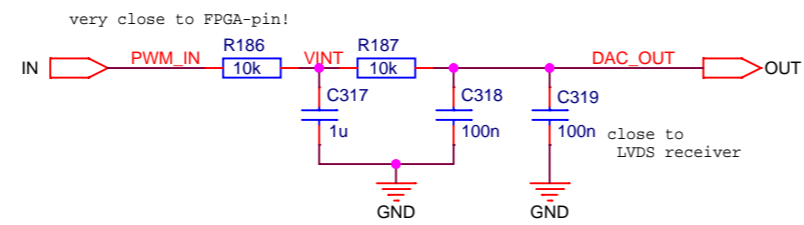
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| Modified: Thursday, March 06, 2025 | | Size: A3 Page: 77/ 137 |
| Designer: H. Hagen | | Layouter: H. Kavan |



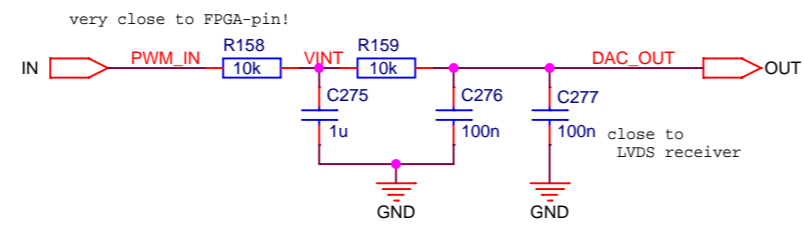
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| Designer: H. Hagen | | Layouter: H. Kavan |



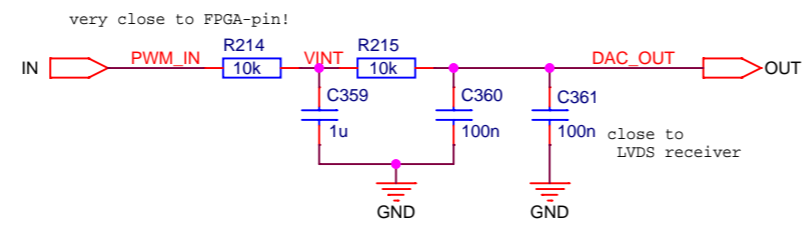
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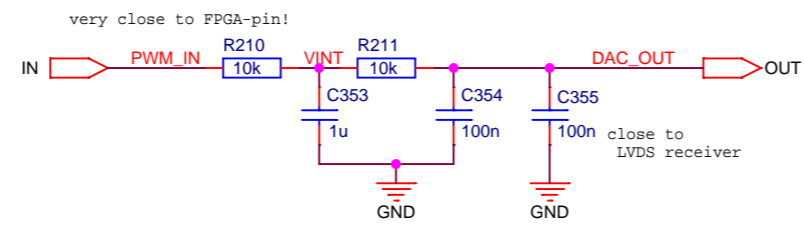
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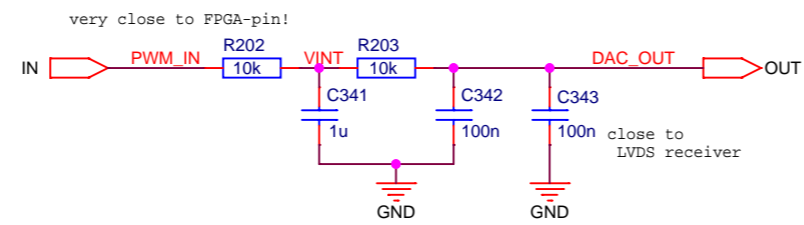
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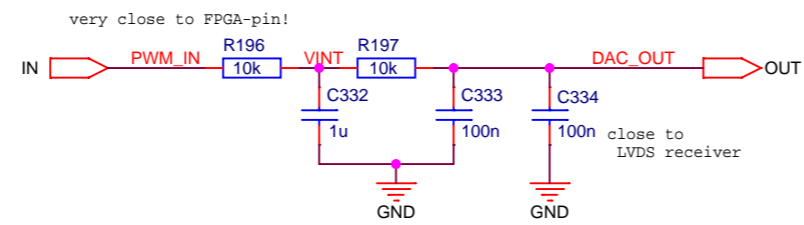
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| Designer: H. Haggren | | Layouter: H. Kavan |



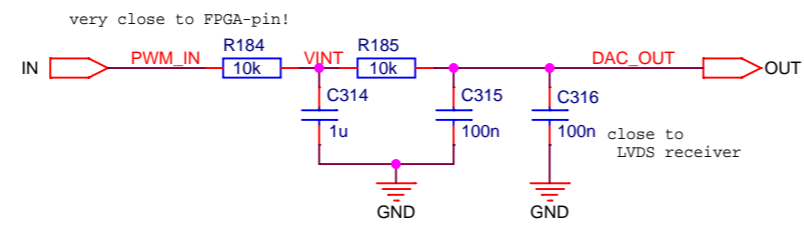
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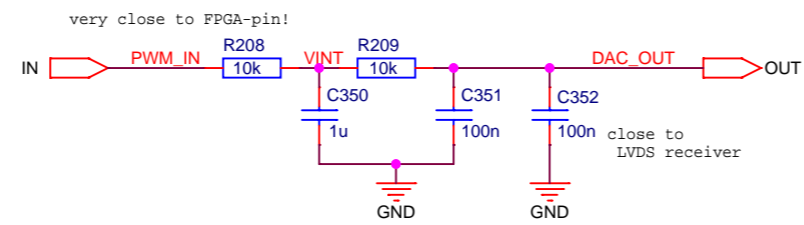
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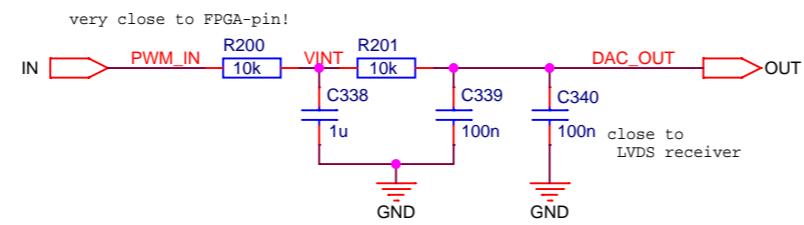
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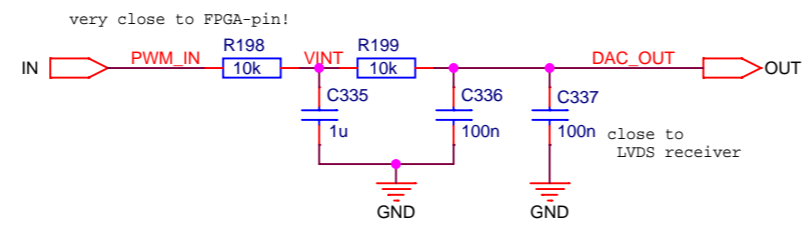
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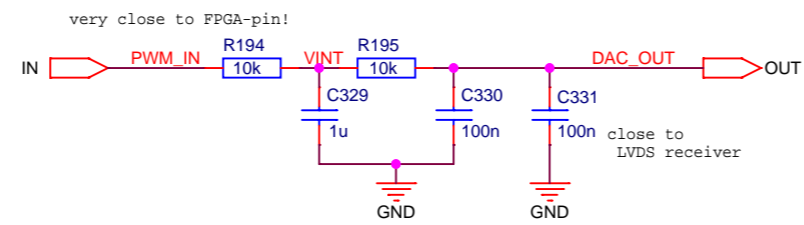
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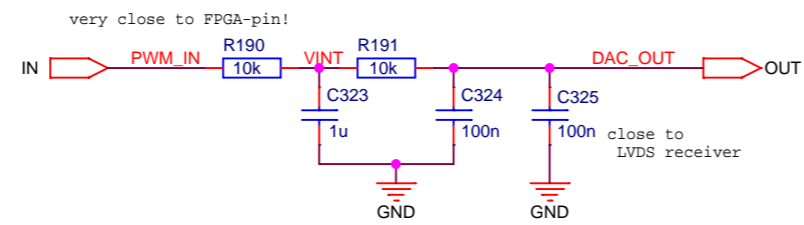
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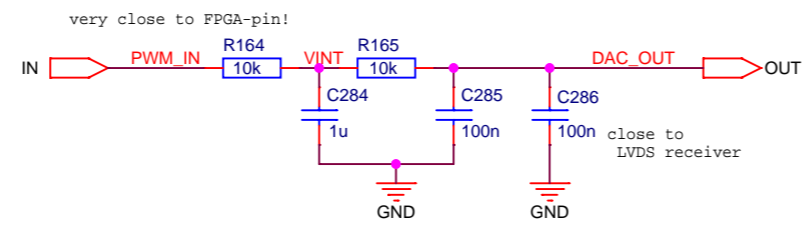
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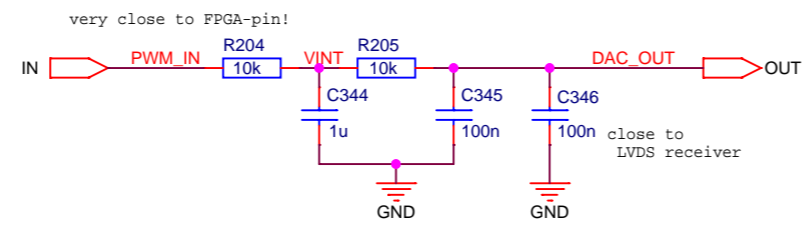
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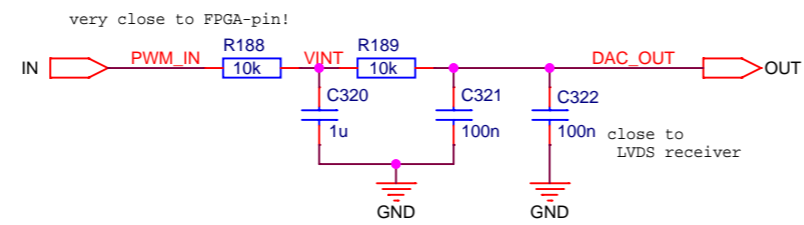
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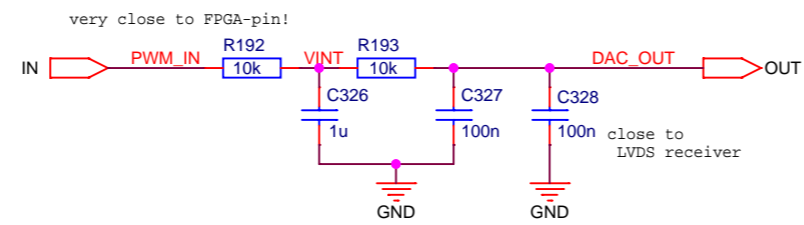
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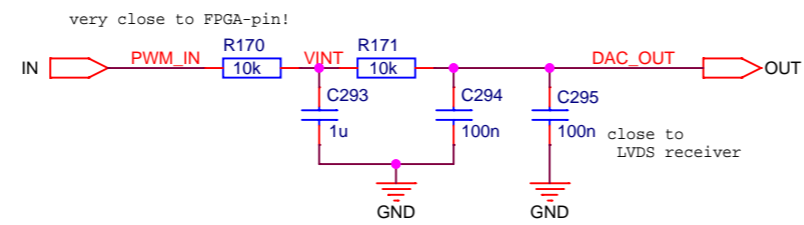
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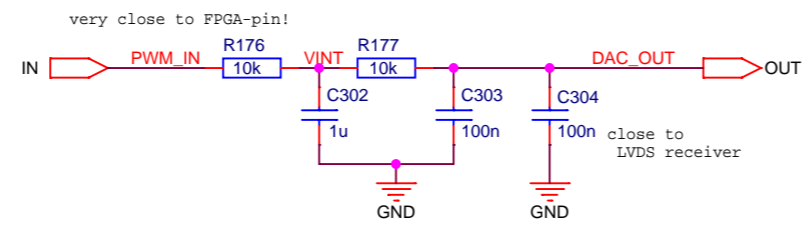
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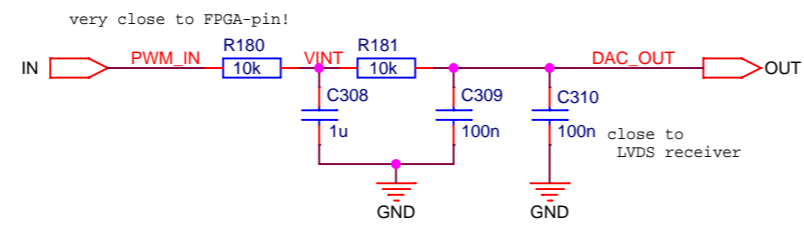
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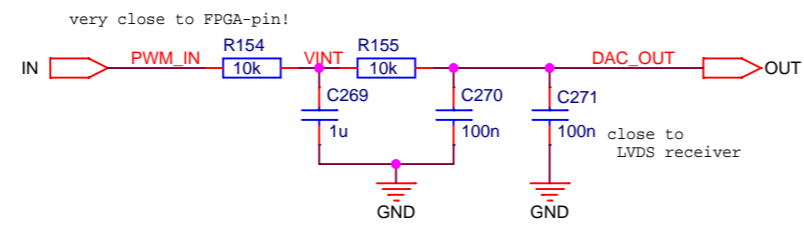
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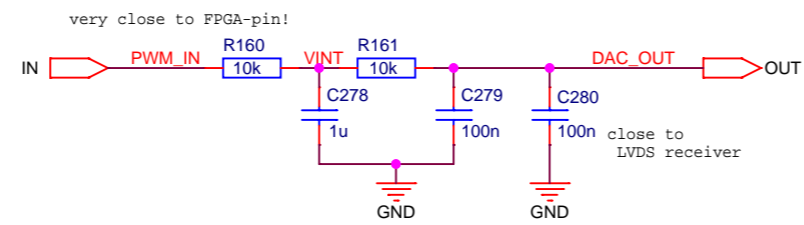
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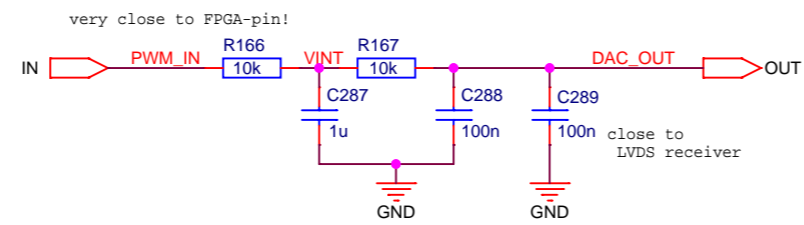
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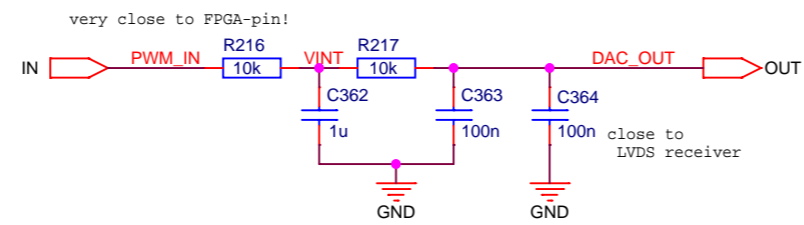
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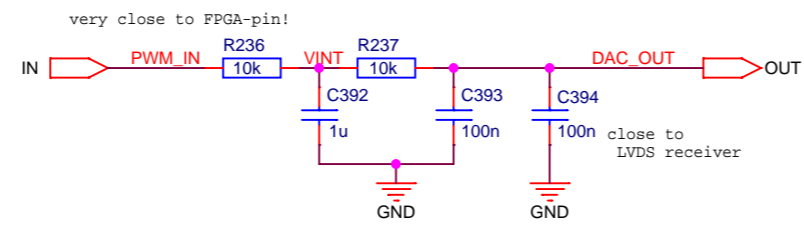
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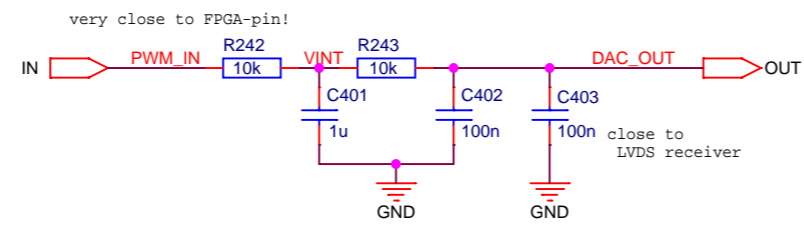
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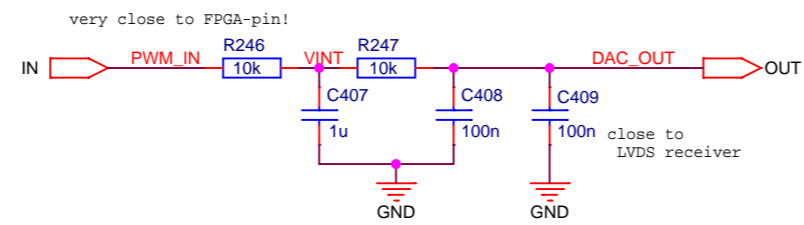
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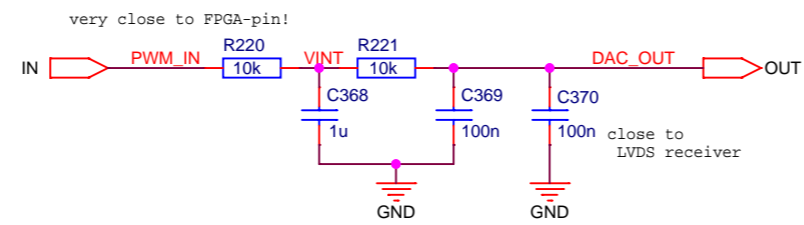
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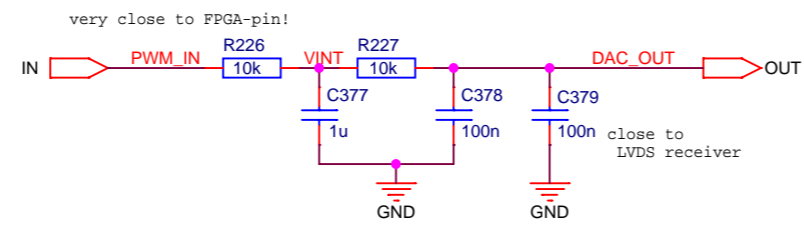
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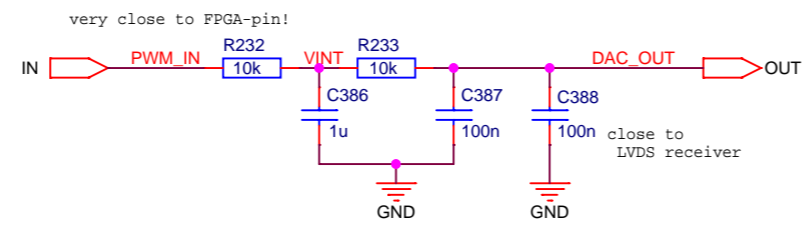
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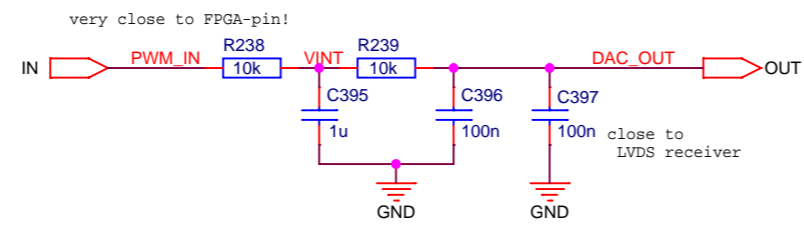
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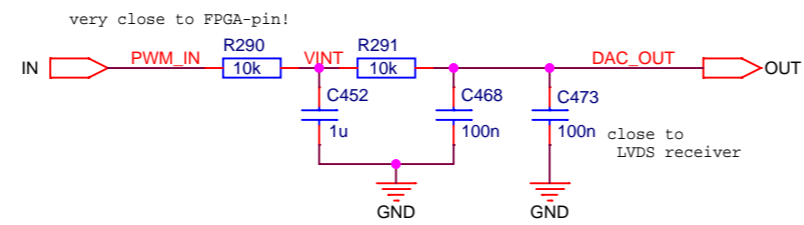
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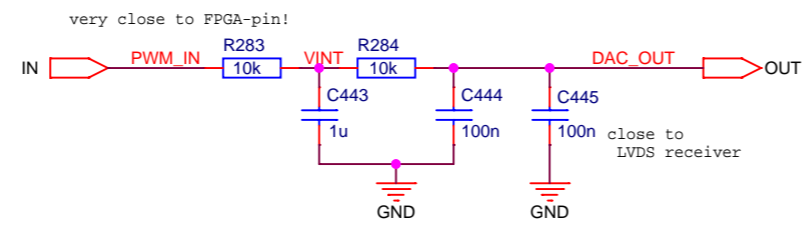
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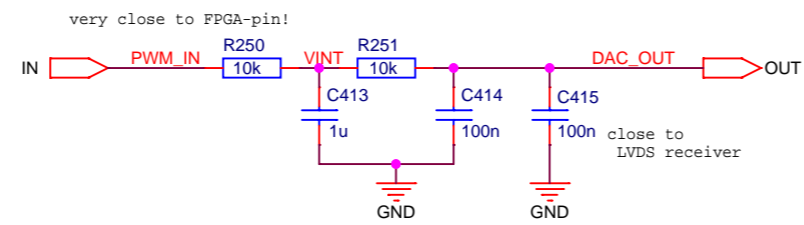
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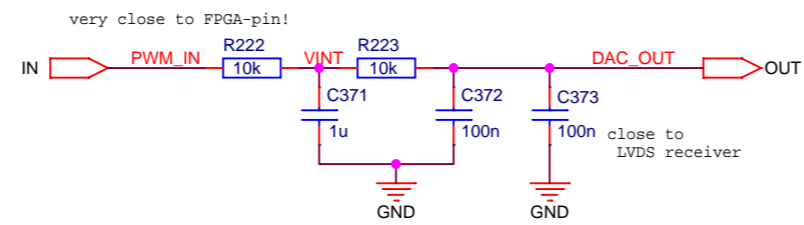
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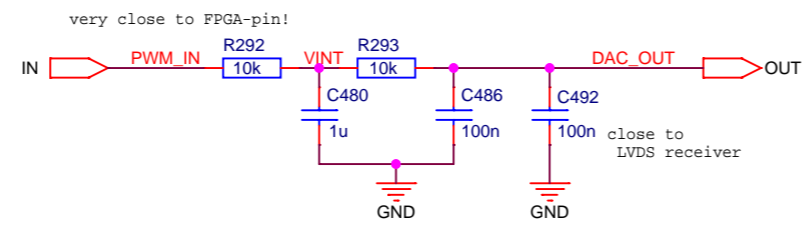
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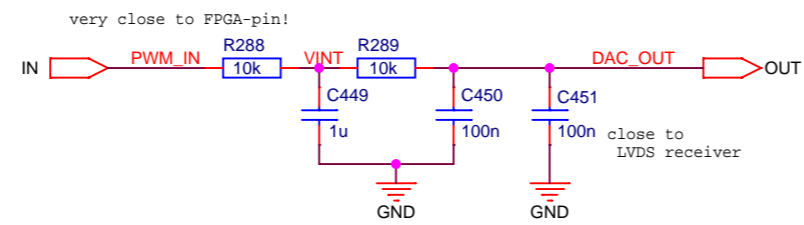
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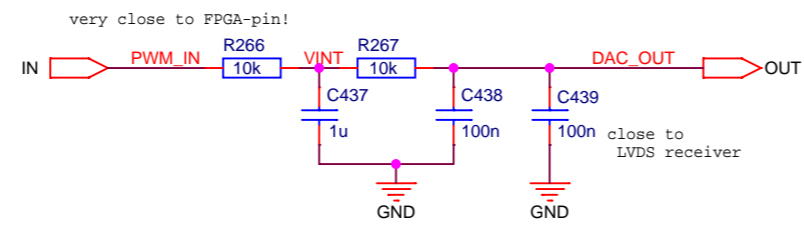
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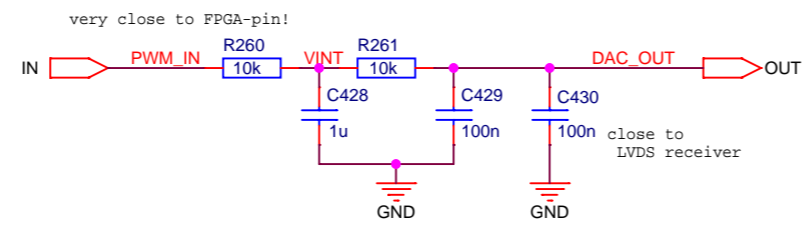
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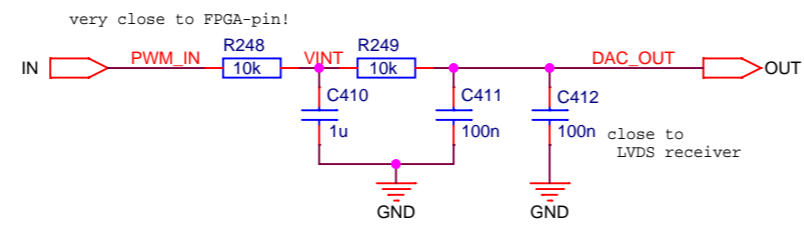
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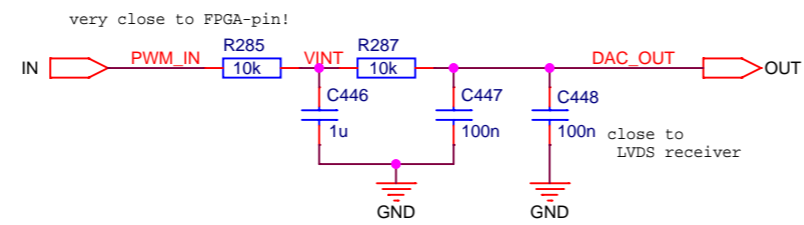
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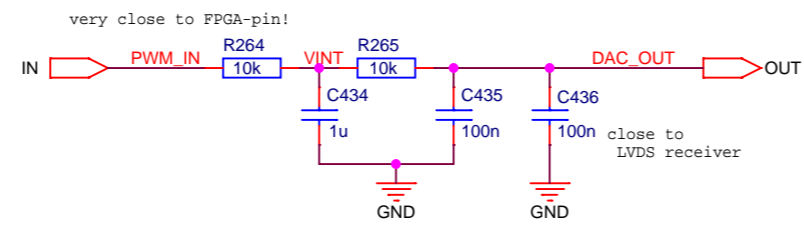
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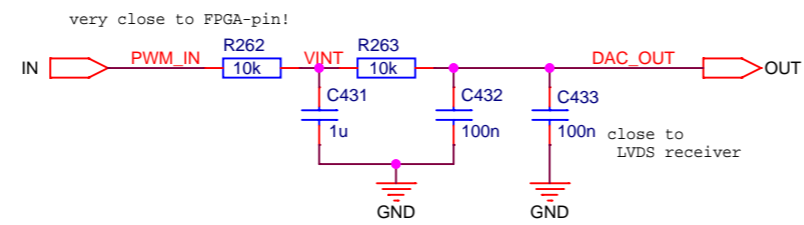
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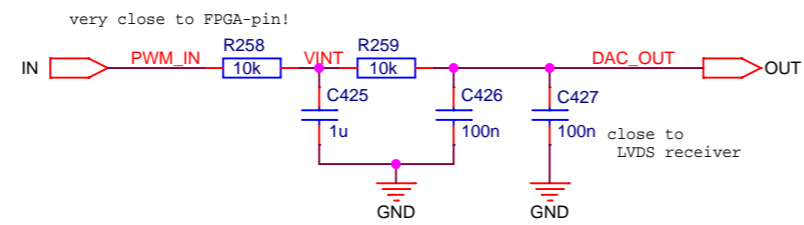
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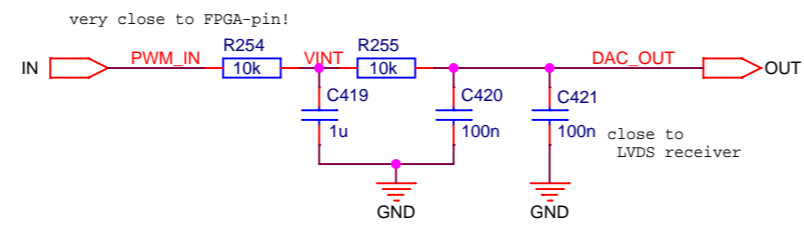
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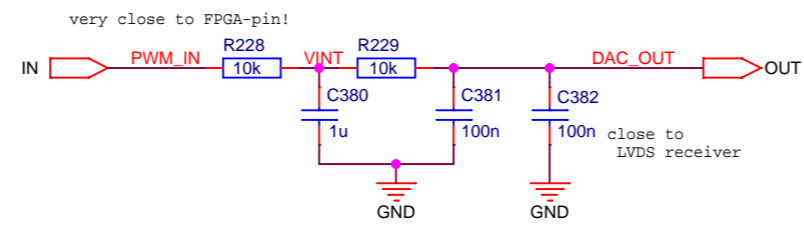
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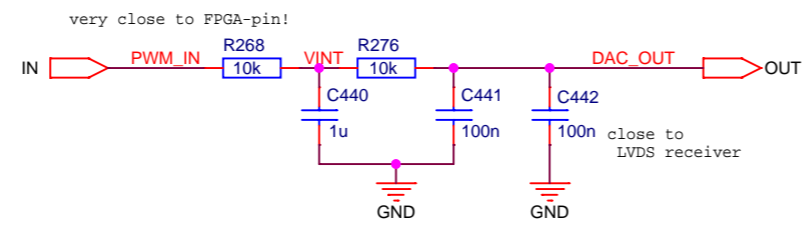
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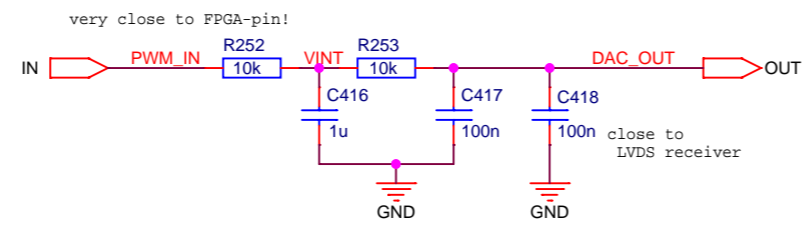
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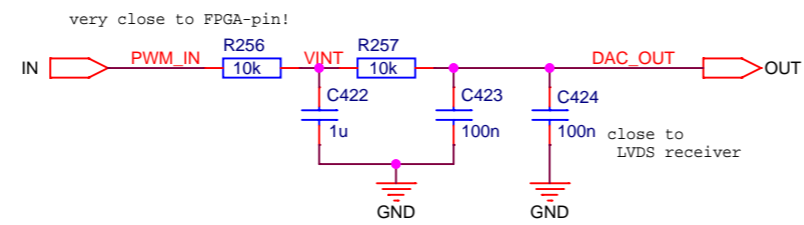
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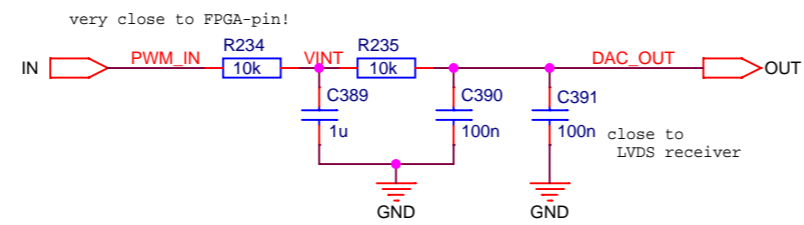
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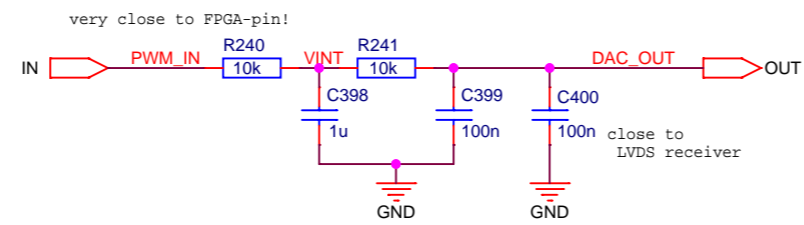
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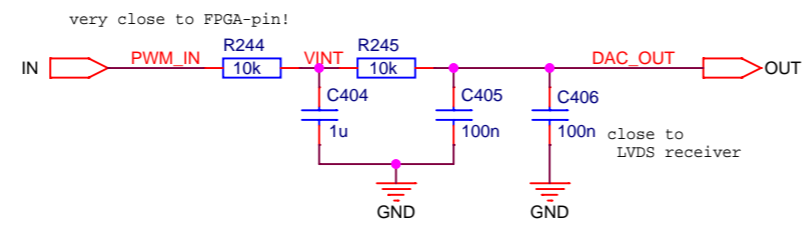
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| Design: K:\GSI\JOB\SCIF\SCIFI_652_TDC1\SCIFI_652_TDC1.DSN Modified: Thursday, March 06, 2025 Designer: H. Hagen | Size: A3 Layouter: H. Kavan | Page: 127 137 |



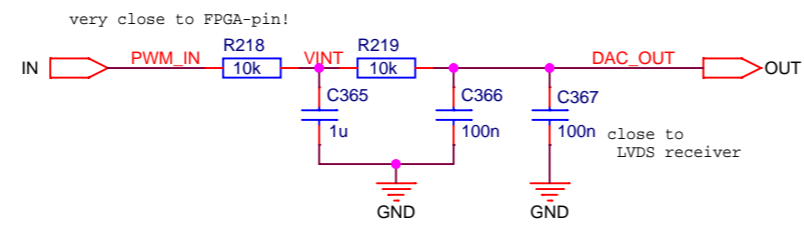
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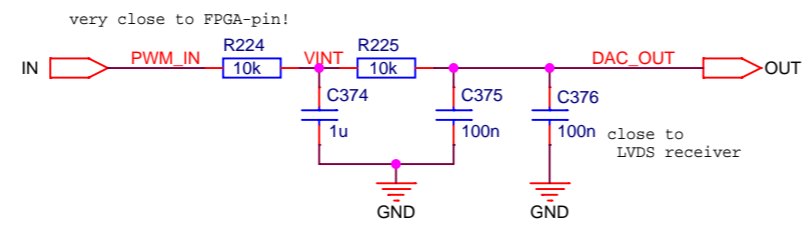
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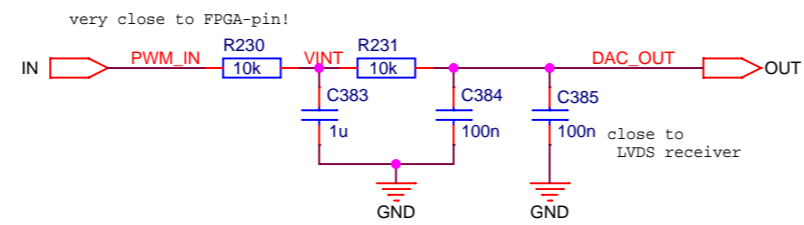
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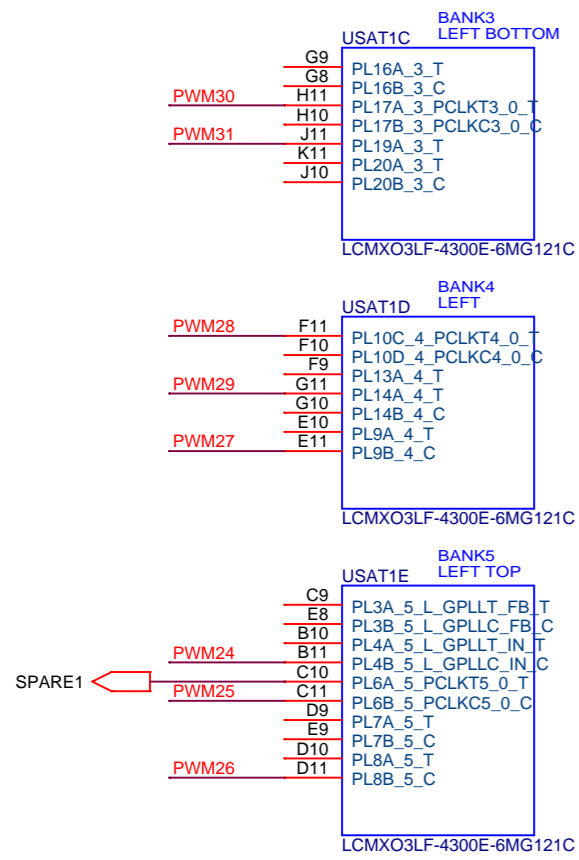
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| Designer: H. Hagen | | Page: 13/ 13 Layouter: H. Kavan |



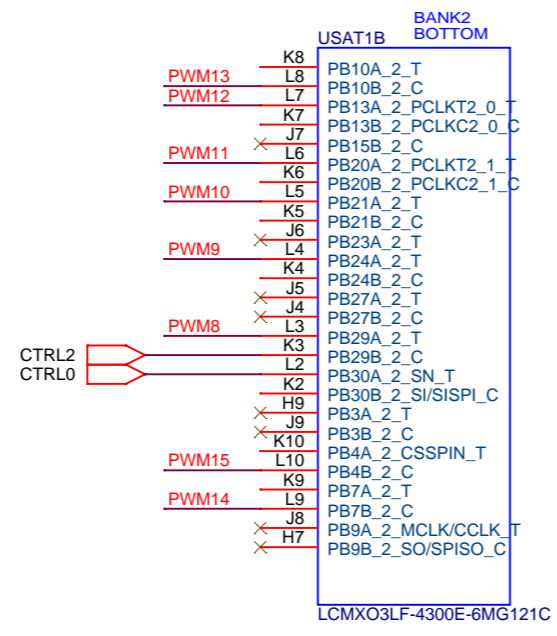
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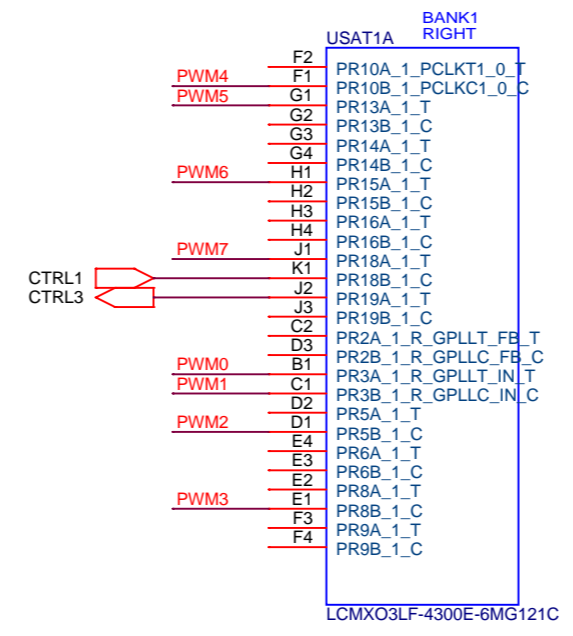
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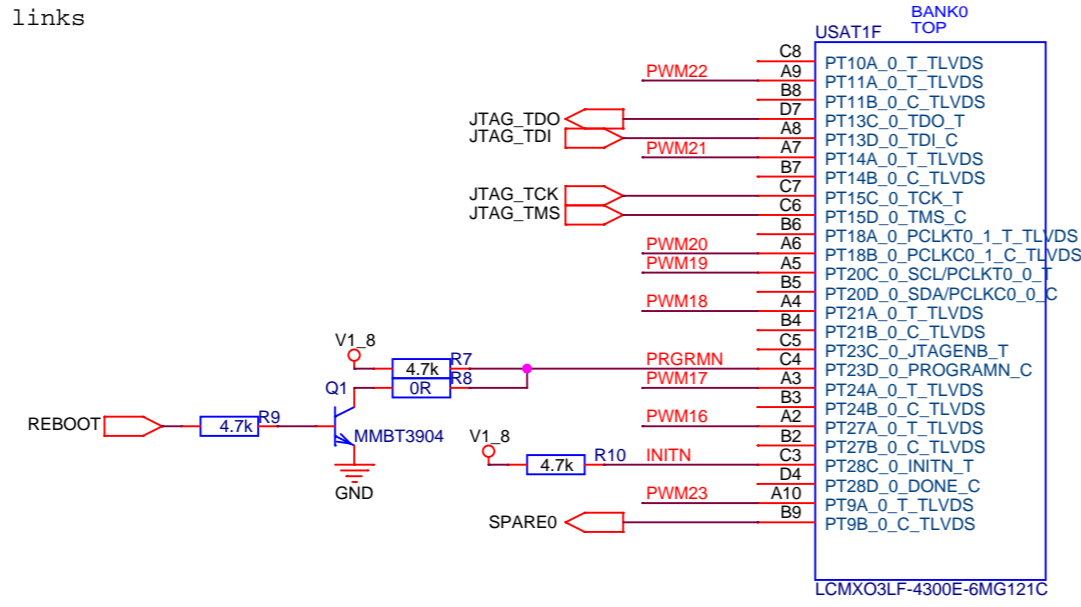
Reihe 11 ganz am Rand links



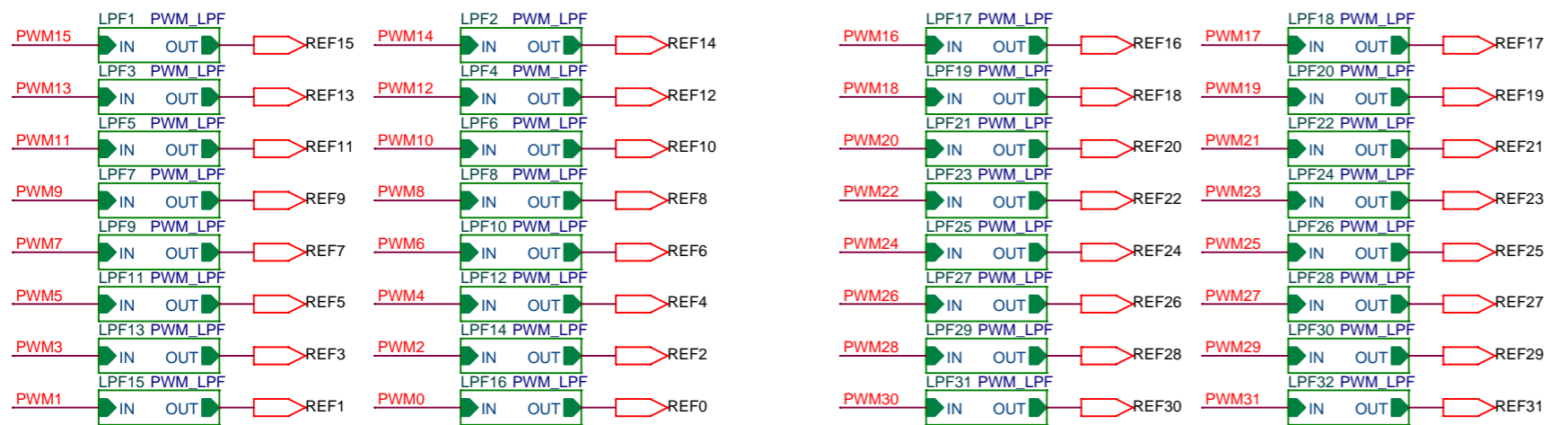
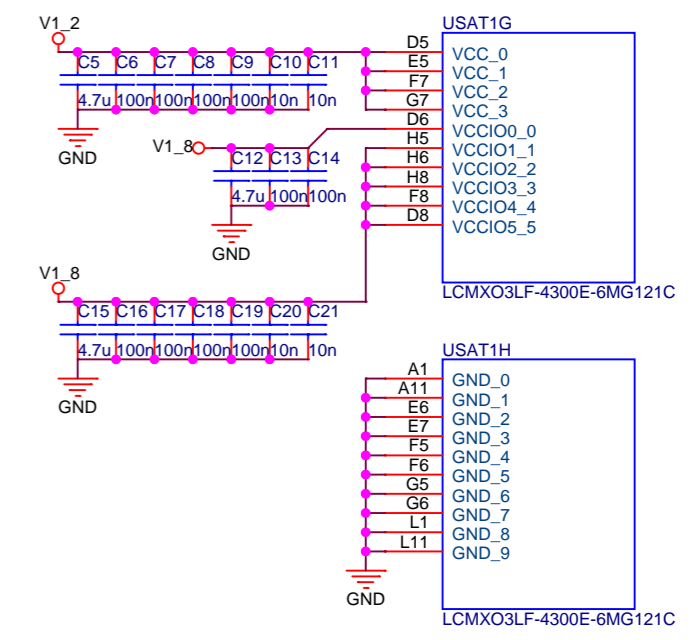
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Reihe 1 ganz am Rand rechts



Reihe A ganz am Rand oben

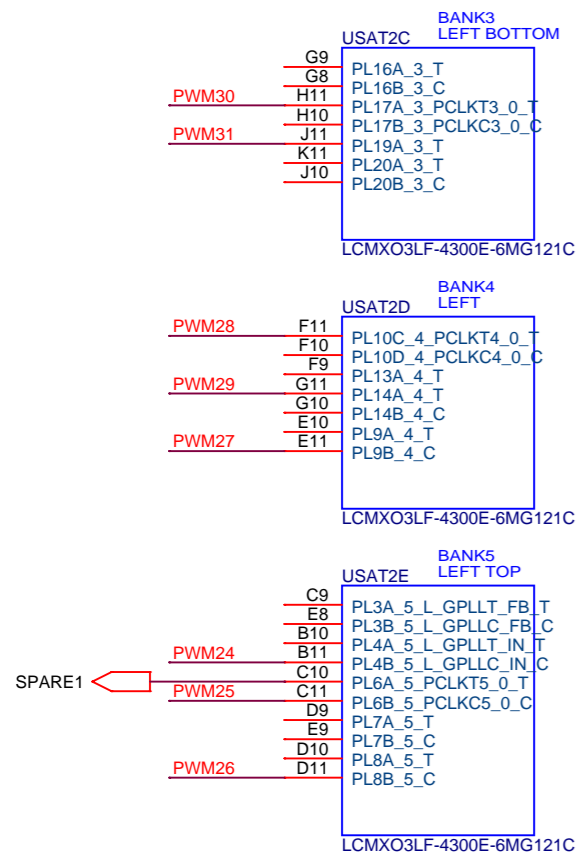


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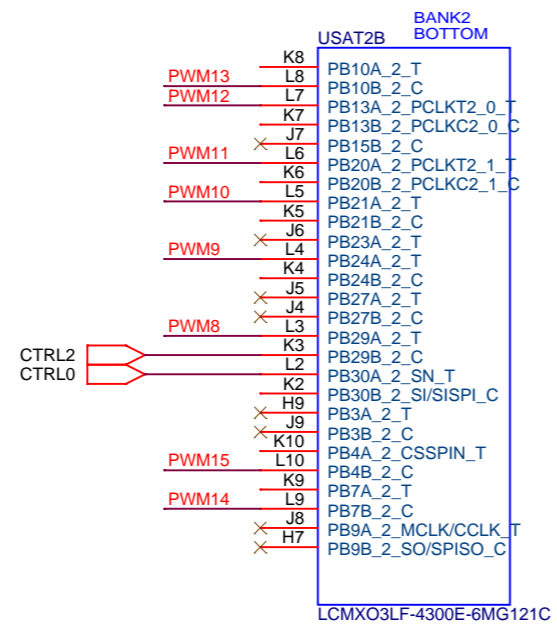
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Modified: Thursday, March 06, 2025
Designer: H. Heggen

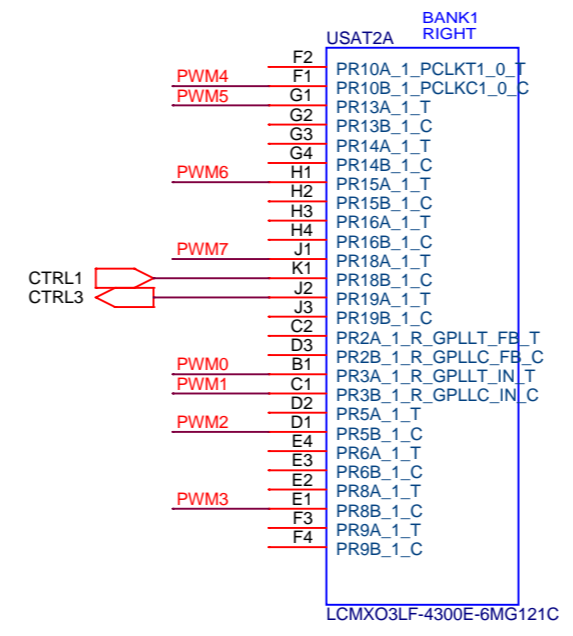
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Page: 134/139
Layouter: H. Kavan



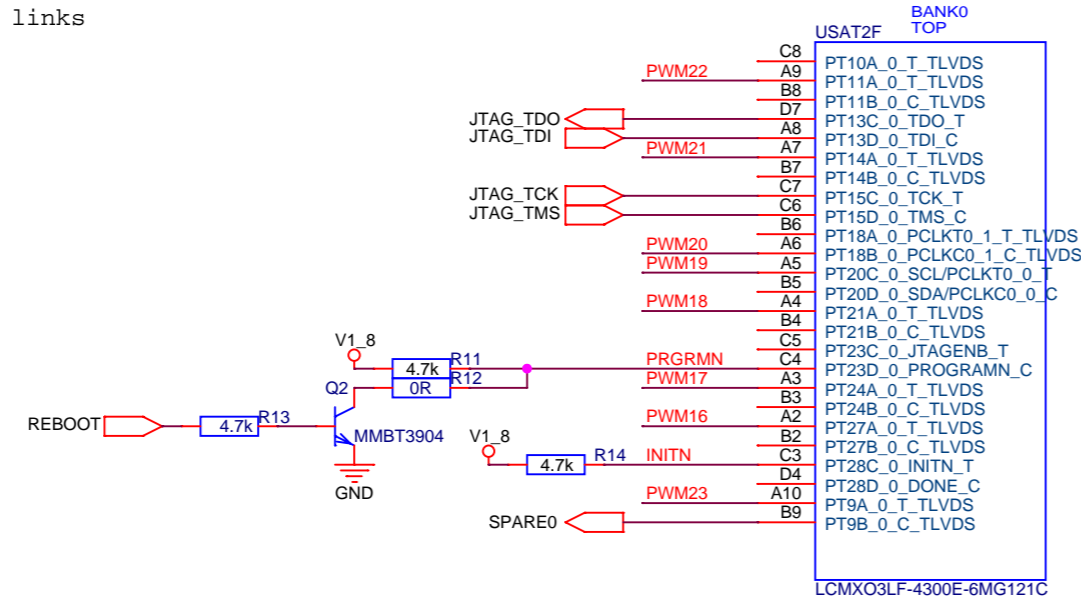
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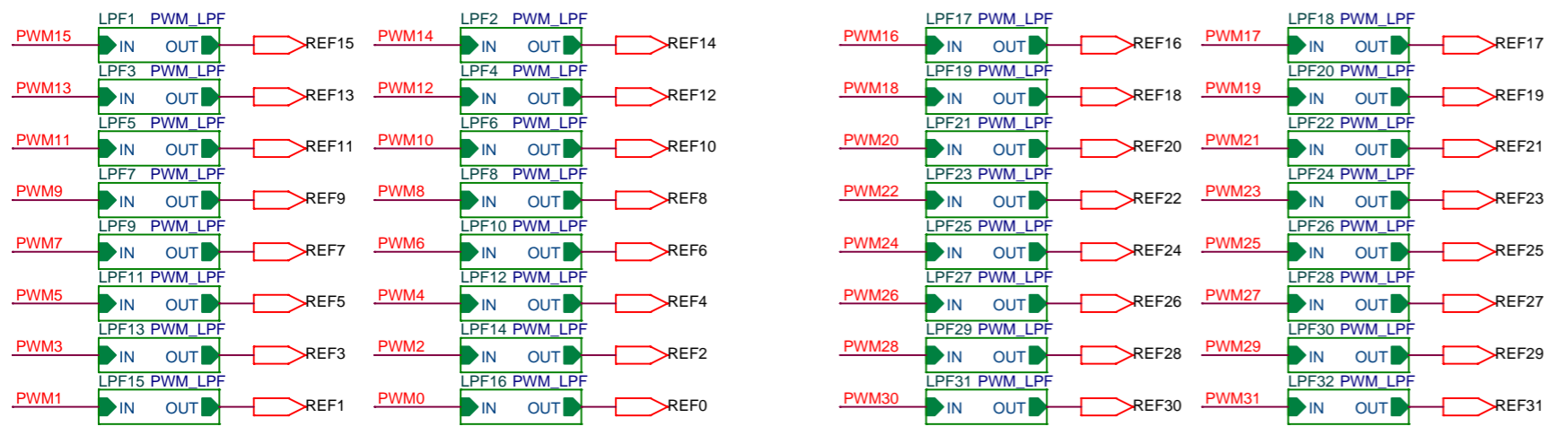
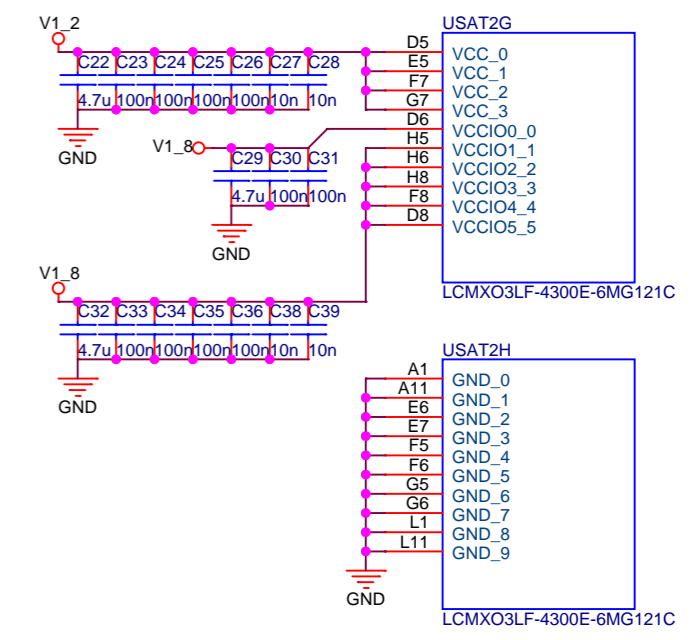
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Reihe 1 ganz am Rand rechts



Reihe A ganz am Rand oben

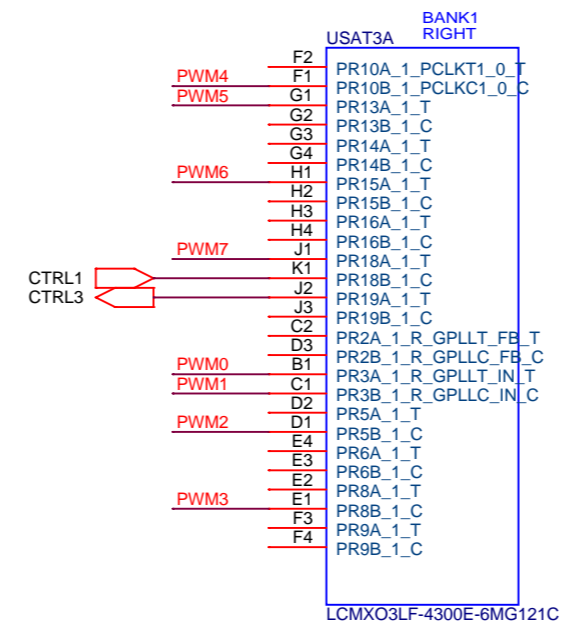
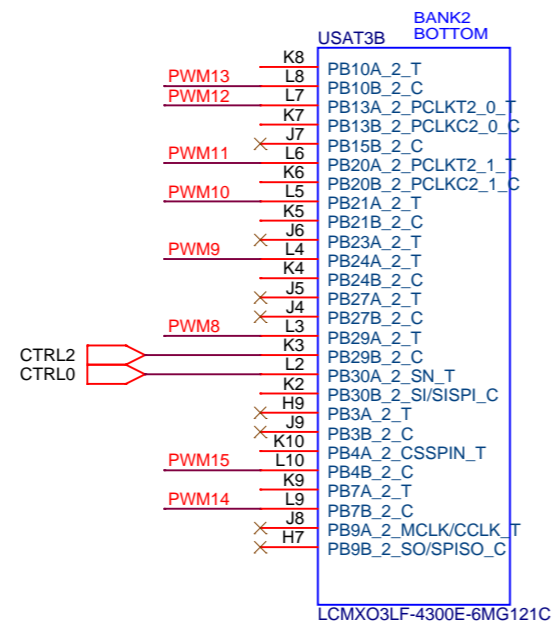
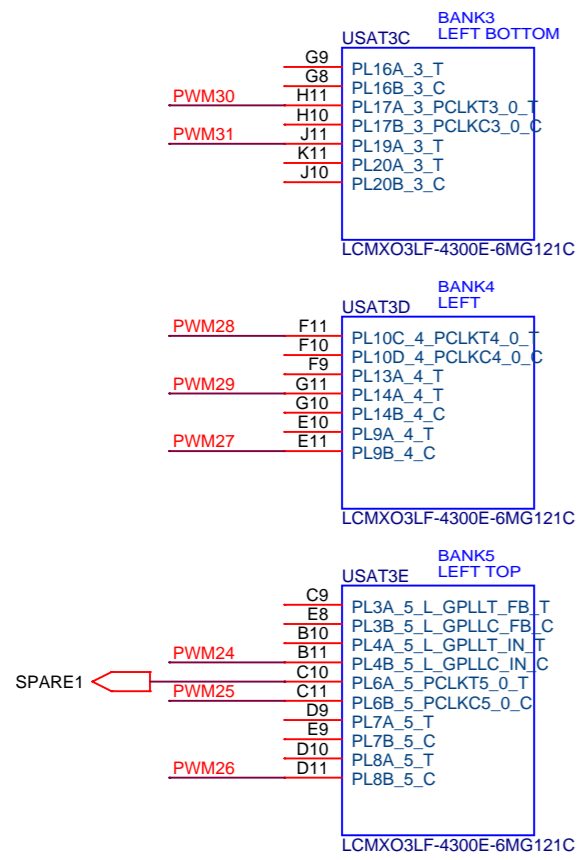


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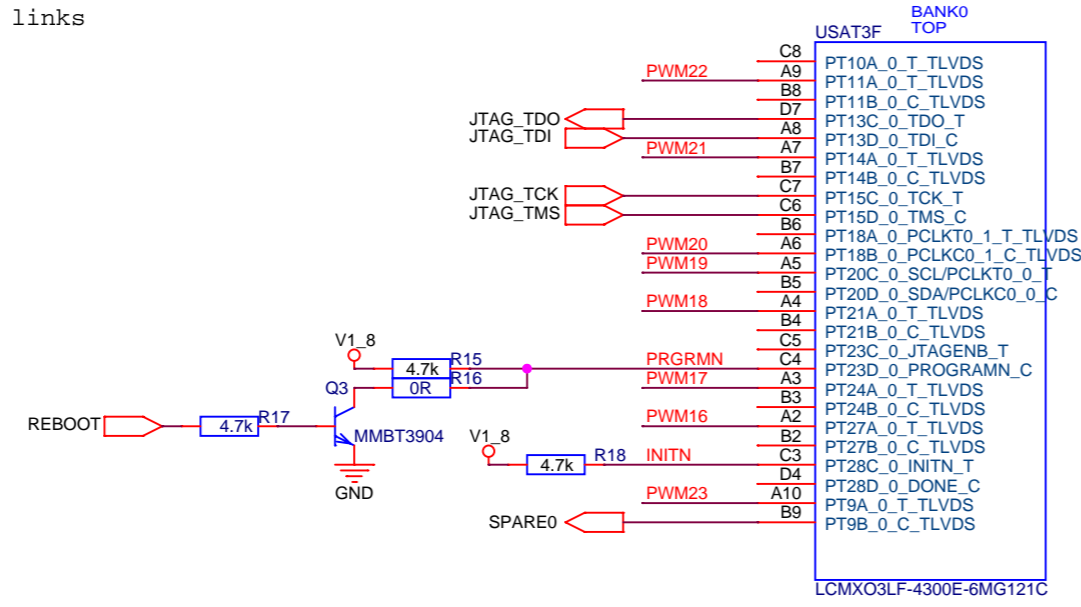
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Layouter: H. Kavan



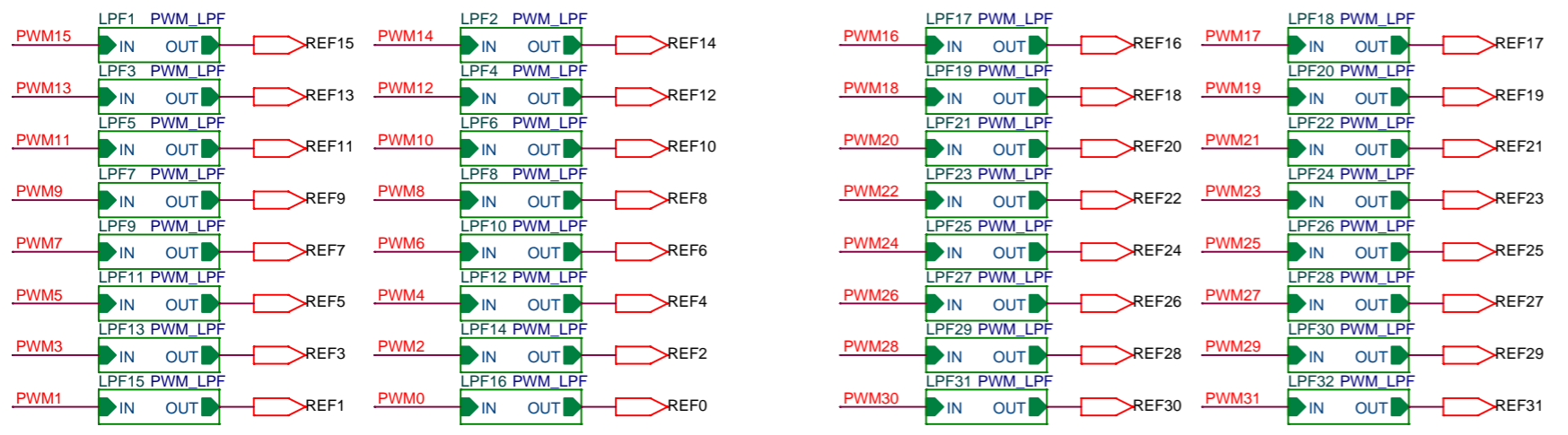
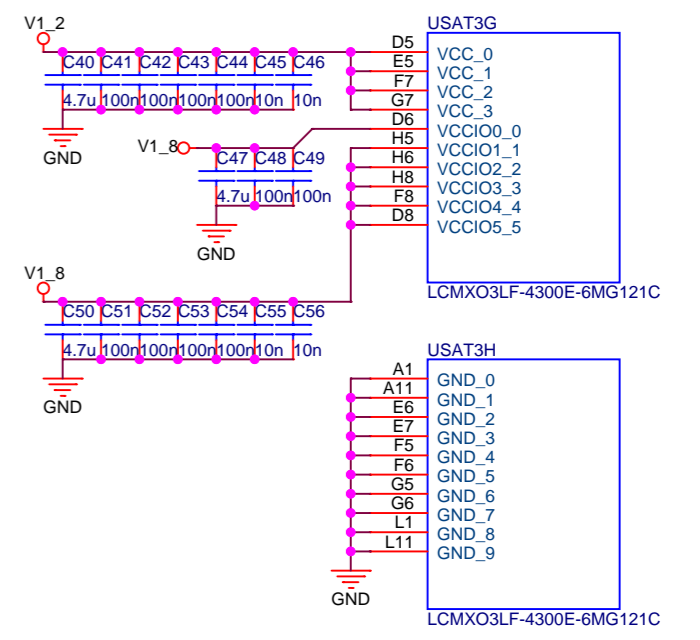
Reihe L ganz am Rand oben

Reihe 1 ganz am Rand rechts

Reihe 11 ganz am Rand links



Reihe A ganz am Rand oben

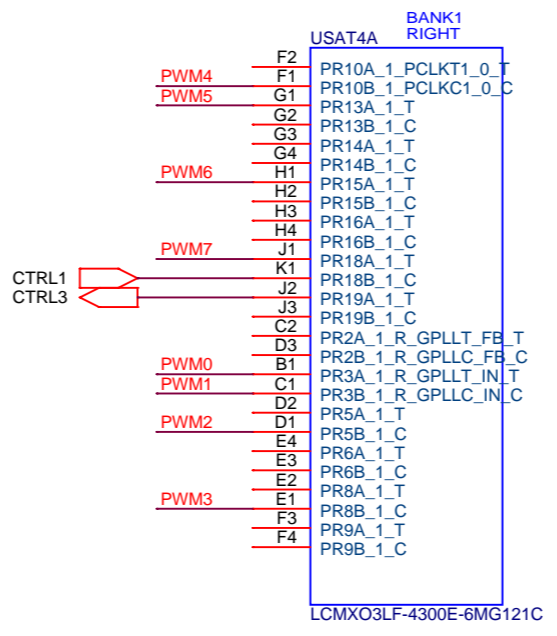
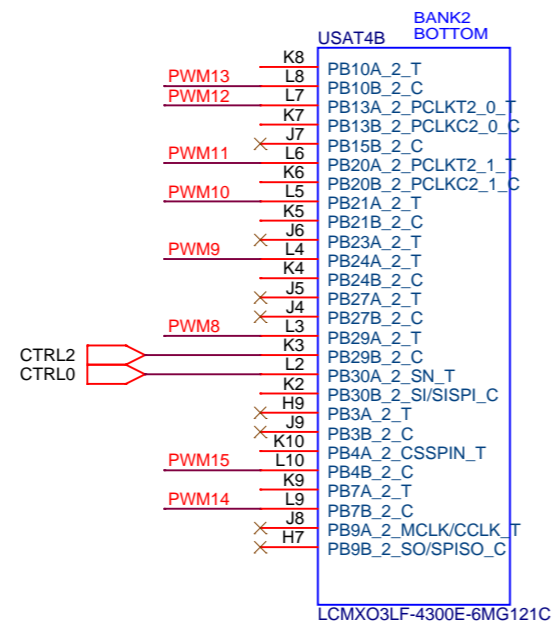
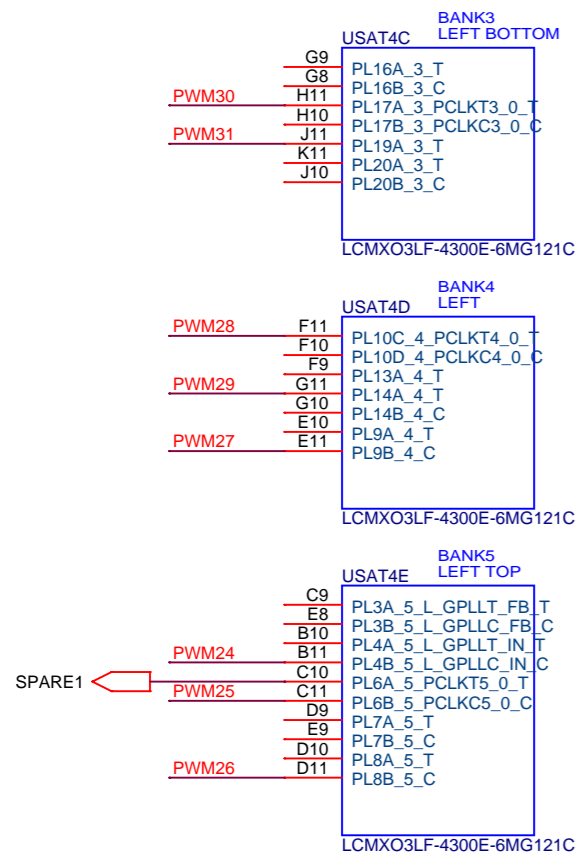


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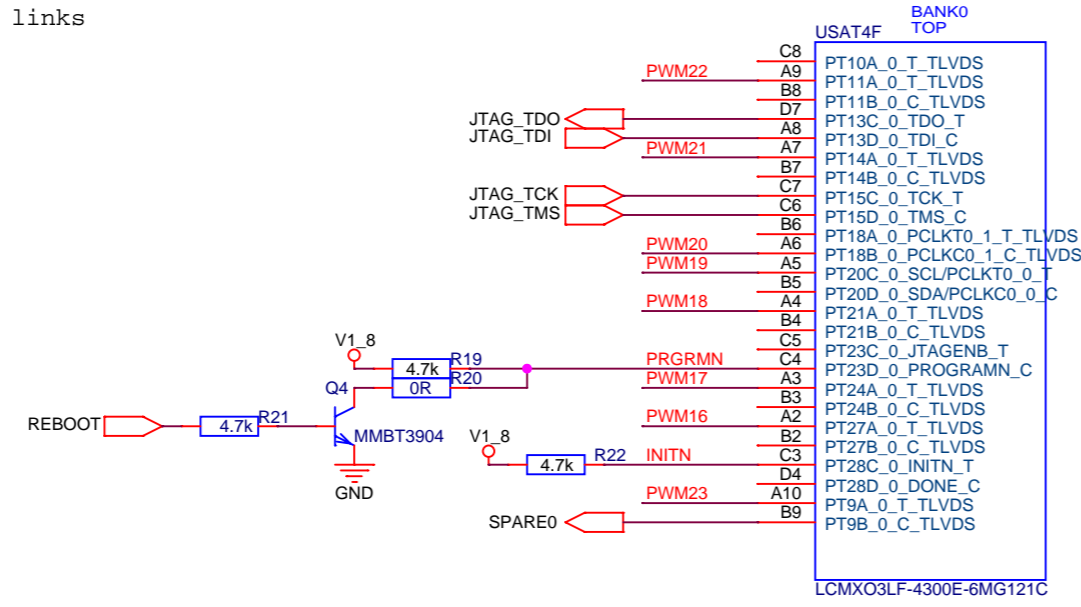
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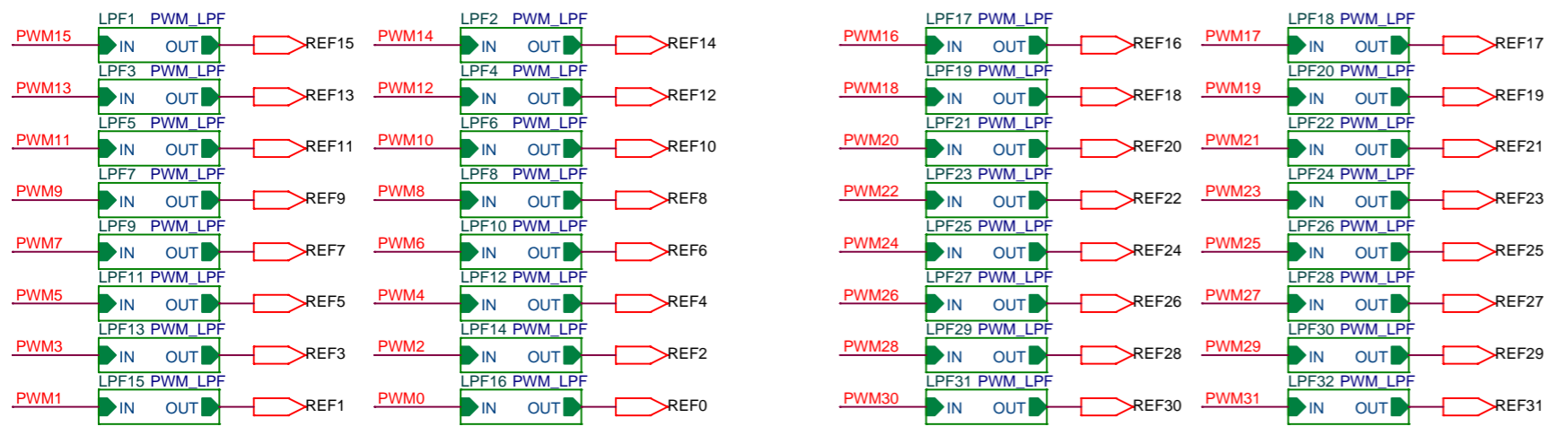
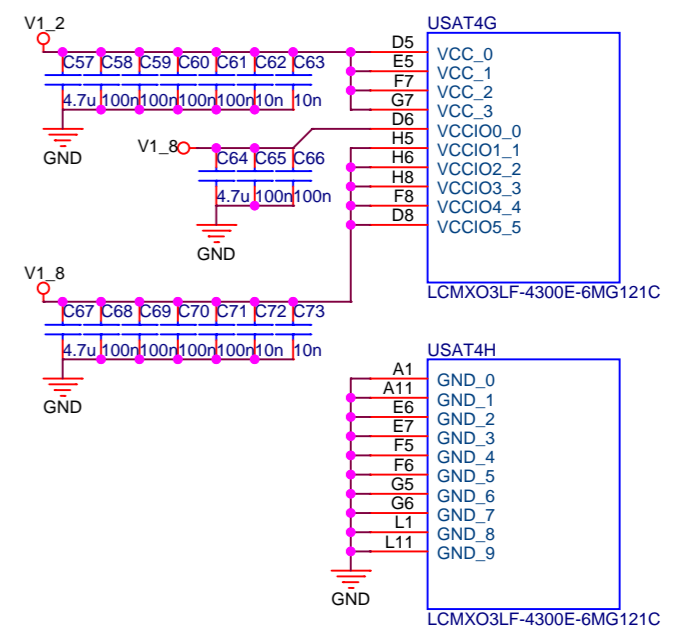
Reihe L ganz am Rand oben

Reihe 1 ganz am Rand rechts

Reihe 11 ganz am Rand links



Reihe A ganz am Rand oben



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