
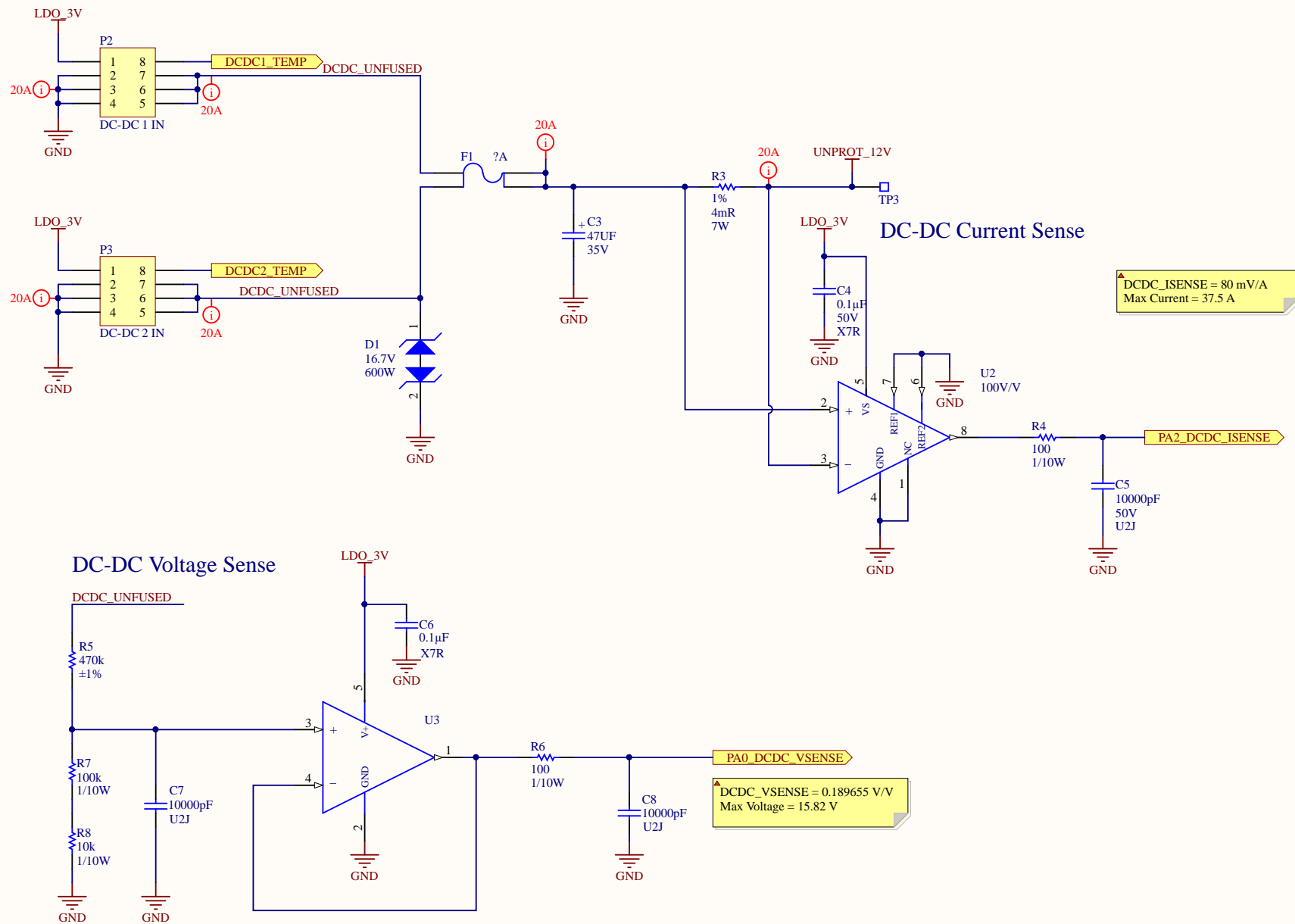

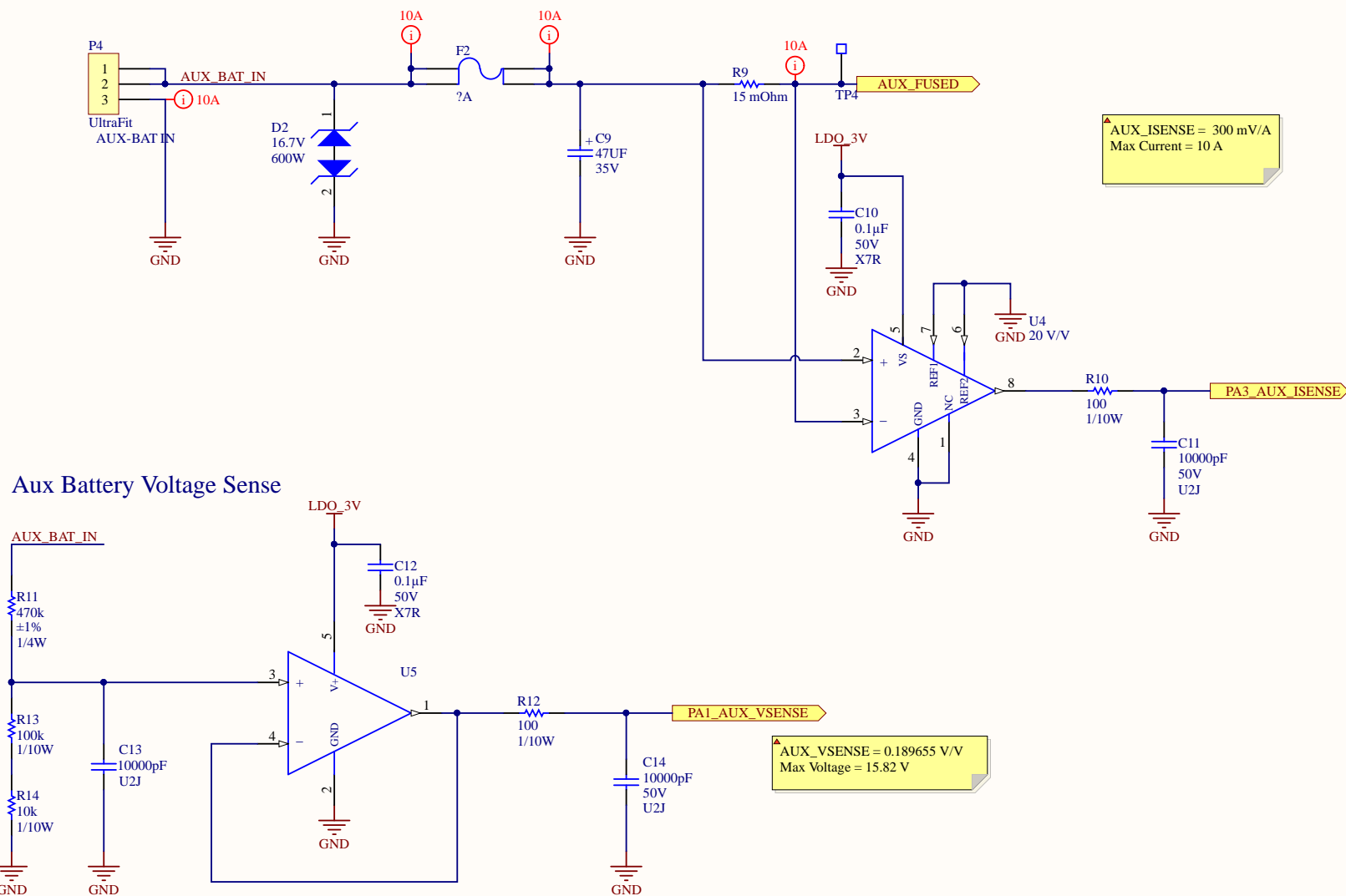



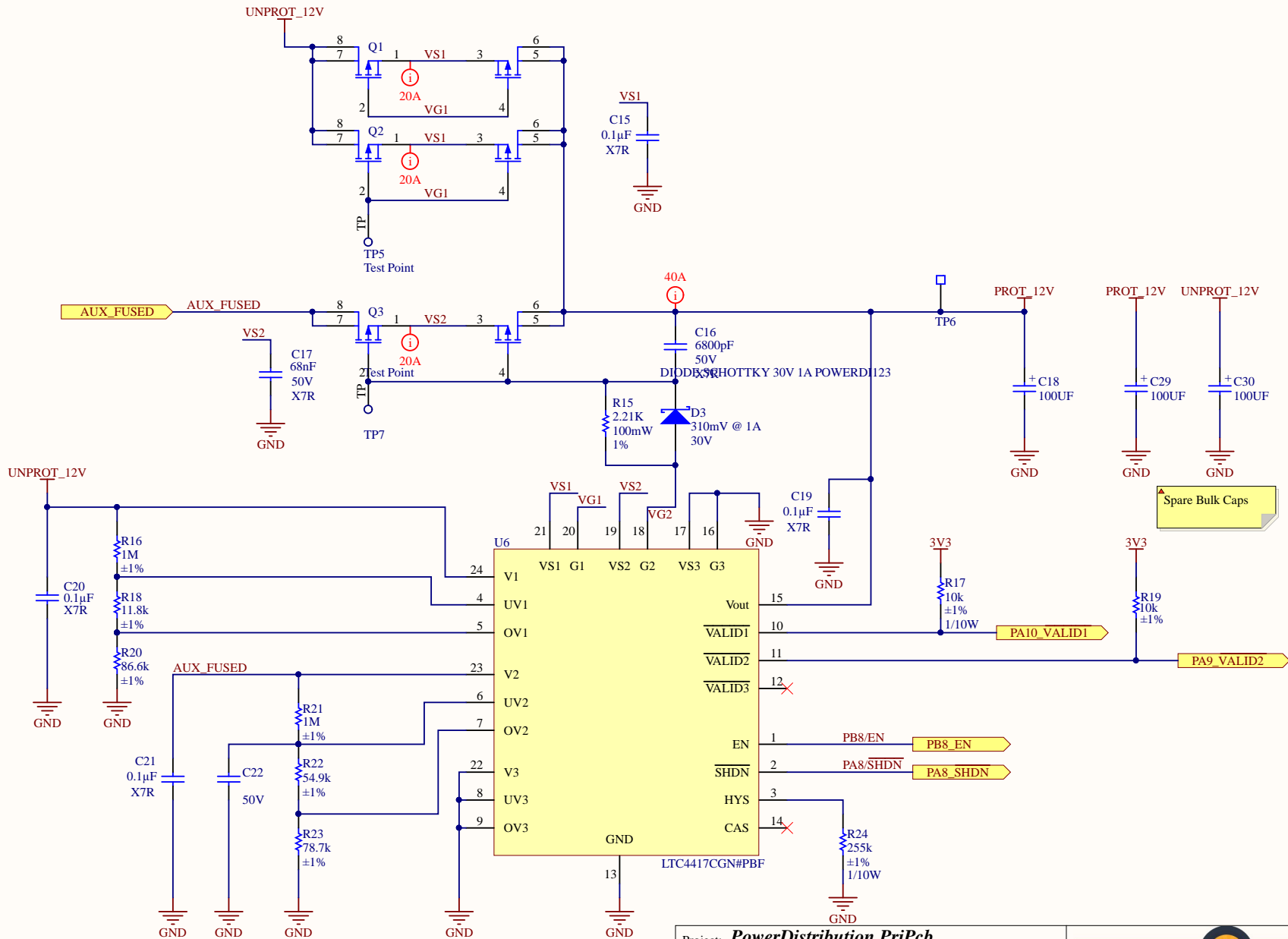
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|--|-----------------------------|---|
| Project: PowerDistribution.PrjPcb | | <div>MIDNIGHTSUN</div> |
| Title: Controller Board Interface & Power | | |
| Project Author: Taiping Li | | University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3E9 |
| Size: Letter | Revision: 3.0 | |
| Date: 2018-06-21 | Sheet 1 of 10 | |
| Website: www.uwmidsun.com | | |




| | | |
|--|----------------------|---|
| Project: PowerDistribution.PrjPcb | |  |
| Title: DC-DC Input | | |
| Project Author: Taiping Li | | University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3E9 |
| Size: Letter | Revision: 3.0 | |
| Date: 2018-06-21 | Sheet2 of 10 | |
| | | Website: www.uwmidsun.com |

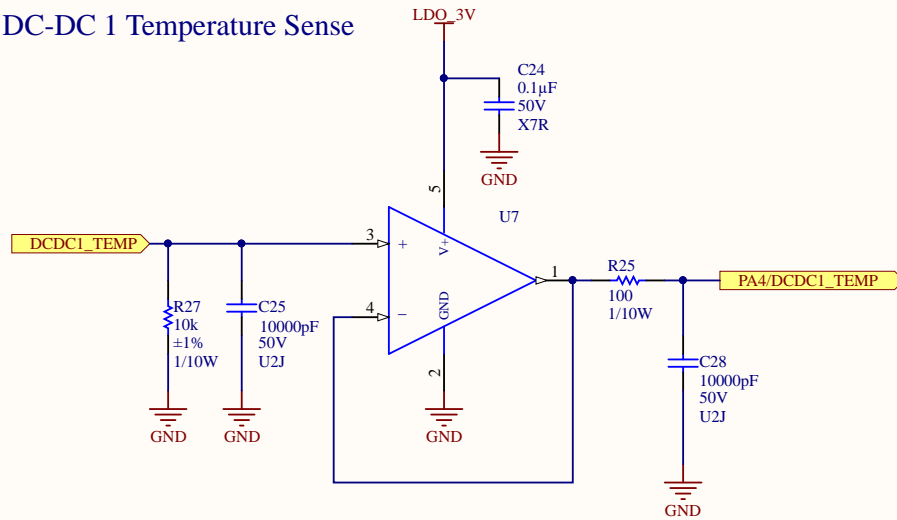


| | | |
|--|-----------------------------|---|
| Project: PowerDistribution.PrjPcb | | <div>MIDNIGHTSUN</div> |
| Title: Aux Battery Input | | |
| Project Author: Taiping Li | | University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3E9 |
| Size: Letter | Revision: 3.0 | |
| Date: 2018-06-21 | Sheet 3 of 10 | |
| | | Website: www.uwmidsun.com |

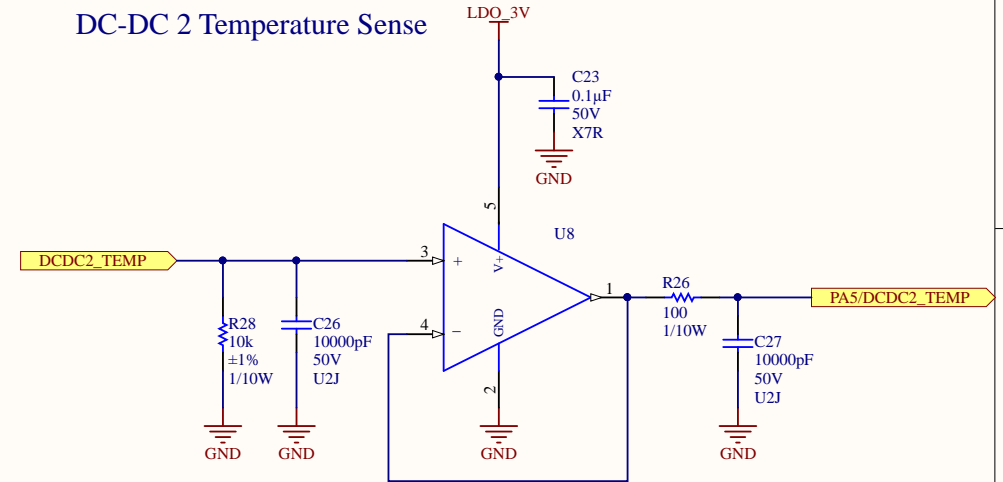


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| Project: PowerDistribution.PrjPcb | | <div><div>MIDNIGHT</div><div></div><div>SUN</div></div> |
| Title: PowerPath Controller | | |
| Project Author: Taiping Li | | University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3E9 |
| Size: Letter | Revision: 3.0 | |
| Date: 2018-06-21 | Sheet 4 of 10 | |
| | | Website: www.uwmidsun.com |

DC-DC 1 Temperature Sense



DC-DC 2 Temperature Sense



Project: **PowerDistribution.PrjPcb**

Title: **Temperature Sense**

Project Author: **Taiping Li**

Size: **Letter**

Date: **2018-06-21**

Revision: **3.0**

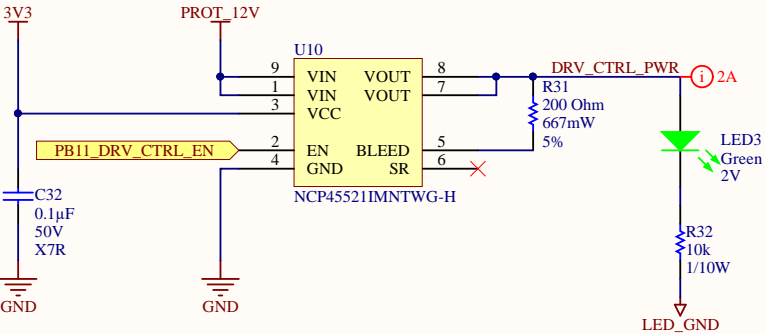
Sheet **5** of **10**



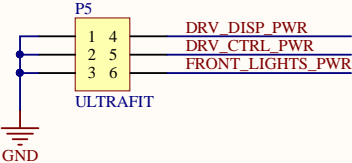
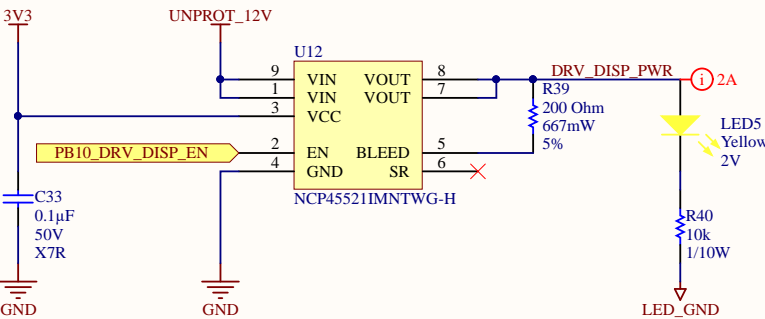
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Waterloo, ON, Canada
N2L 3E9

Website: www.uwmidsun.com

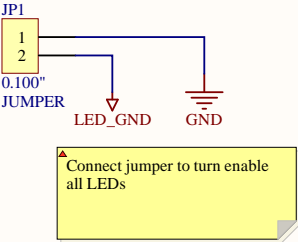
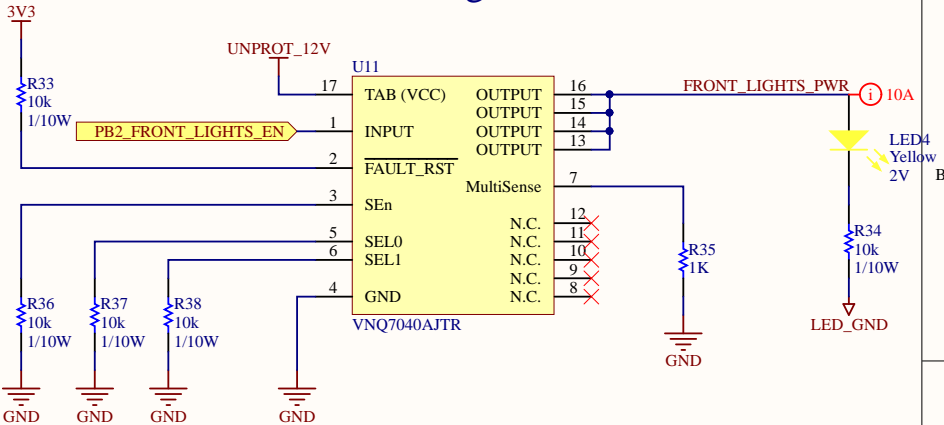
Driver Controls




Driver Display

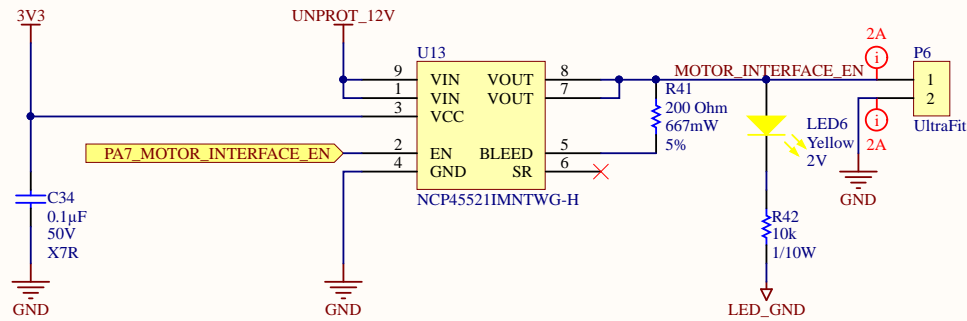


Front Lights

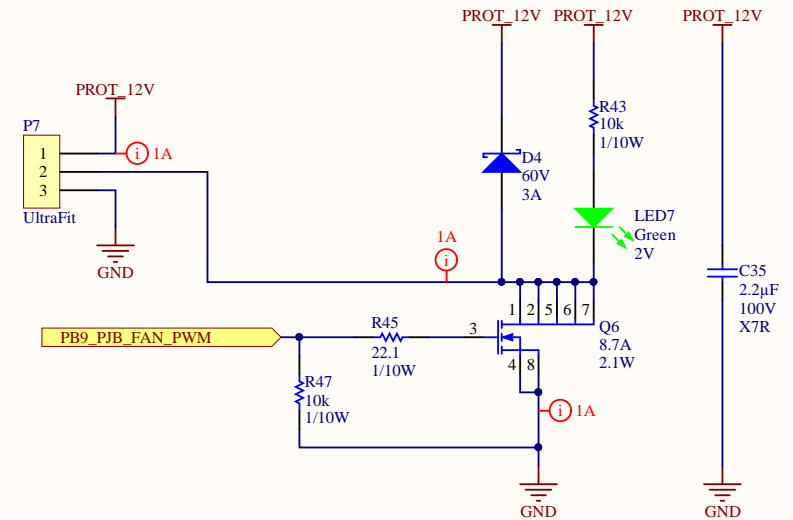


| | | |
|--|----------------------|---|
| Project: PowerDistribution.PrjPcb | |  |
| Title: Outputs to Front Enclosure | | |
| Project Author: Taiping Li | | University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3E9 |
| Size: Letter | Revision: 3.0 | |
| Date: 2018-06-21 | Sheet6 of 10 | |
| | | Website: www.uwmidsun.com |

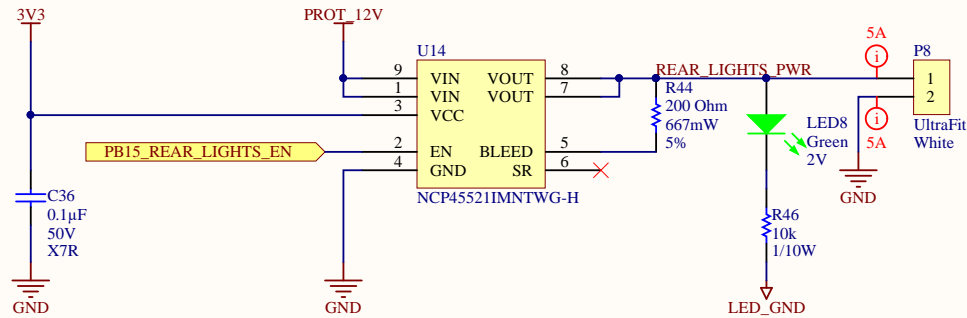
Motor Interface Board




PJB Fan

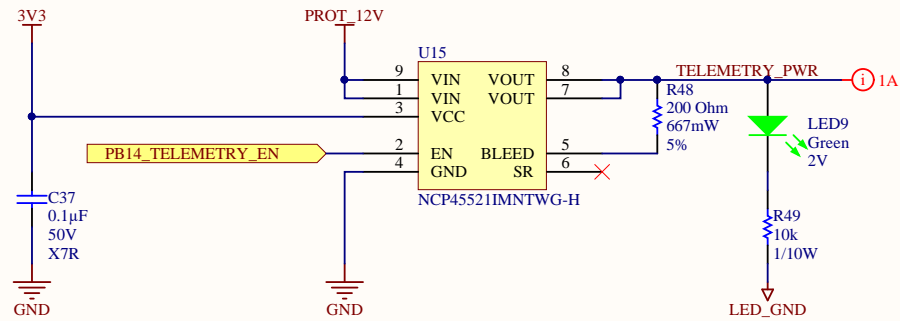


Rear Lights

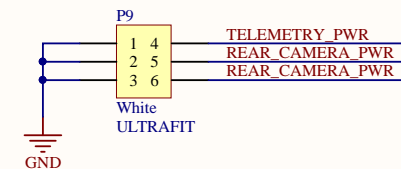
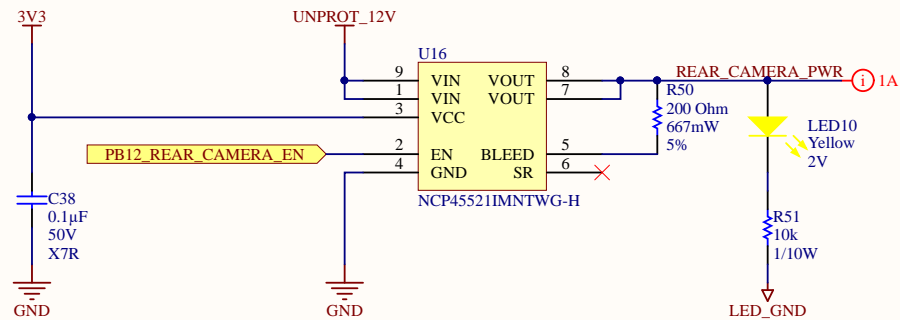



| | | |
|--|-----------------------------|---|
| Project: PowerDistribution.PrjPcb | | <div>MIDNIGHTSUN</div> |
| Title: Outputs to PJB | | |
| Project Author: Taiping Li | | University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3E9 |
| Size: Letter | Revision: 3.0 | |
| Date: 2018-06-21 | Sheet 7 of 10 | Website: www.uwmidsun.com |

Telemetry

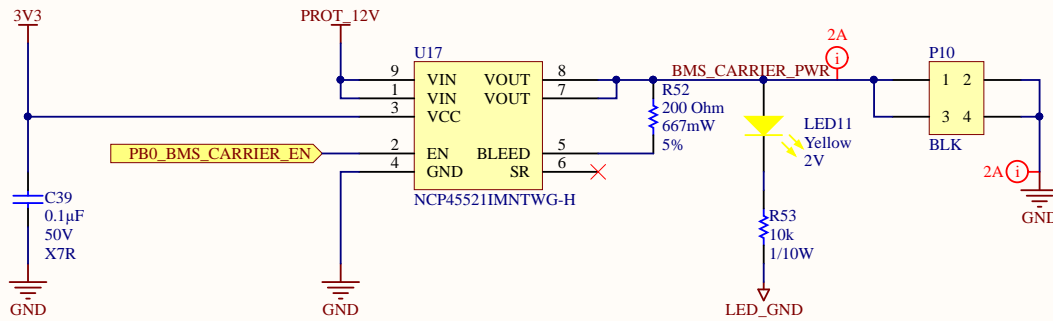


Rear Camera

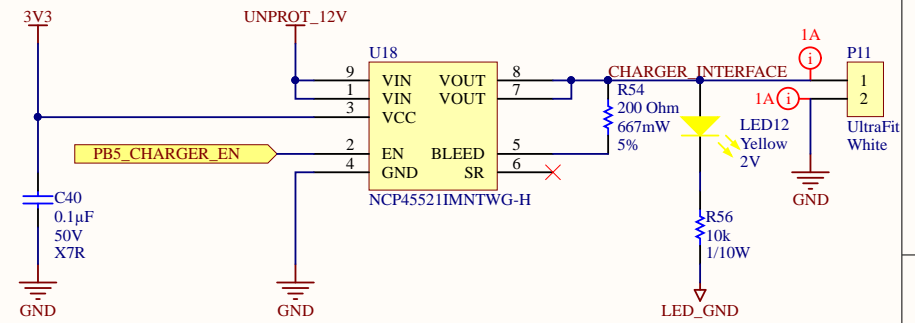


| | | |
|--|-----------------------------|---|
| Project: PowerDistribution.PrjPcb | | <div>MIDNIGHTSUN</div> |
| Title: Outputs to Roof Enclosure | | |
| Project Author: Taiping Li | | University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3E9 |
| Size: Letter | Revision: 3.0 | |
| Date: 2018-06-21 | Sheet 8 of 10 | Website: www.uwmidsun.com |

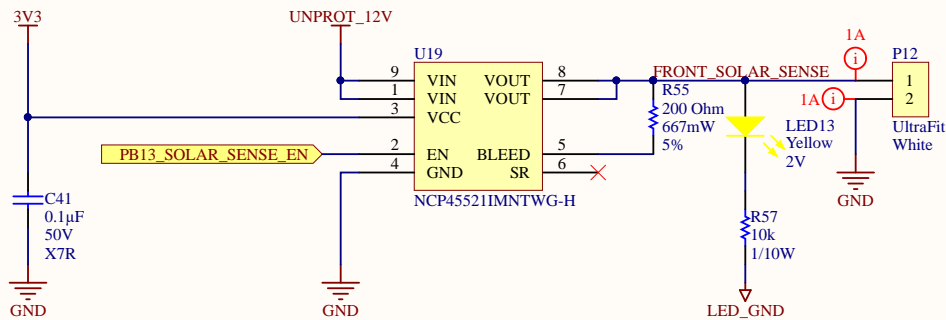
BMS Carrier (Master and Slave)



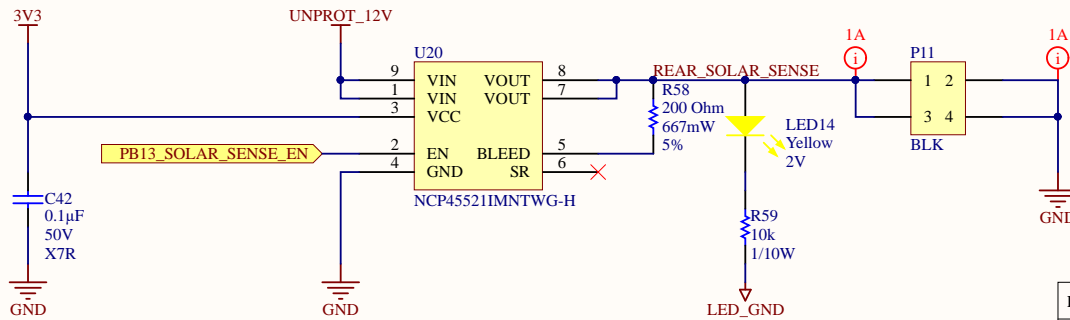
Charger Interface



Front Solar Sense



Rear Solar Sense



Project: **PowerDistribution.PrjPcb**

Title: **Misc Outputs**

Project Author: **Taiping Li**

Size: **Letter**

Date: **2018-06-21**

Revision: **3.0**

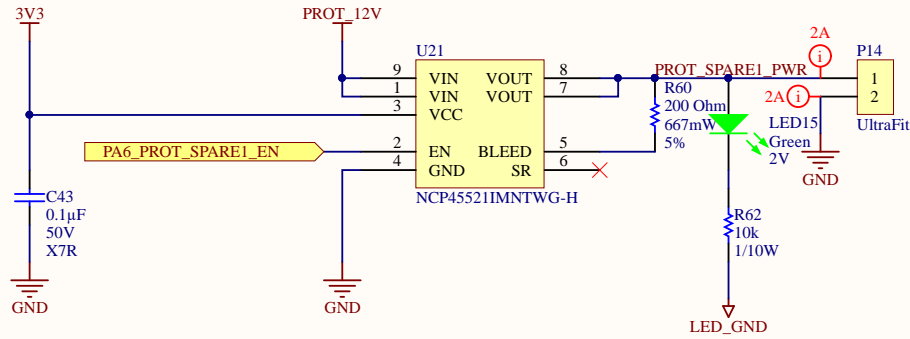
Sheet **9** of **10**



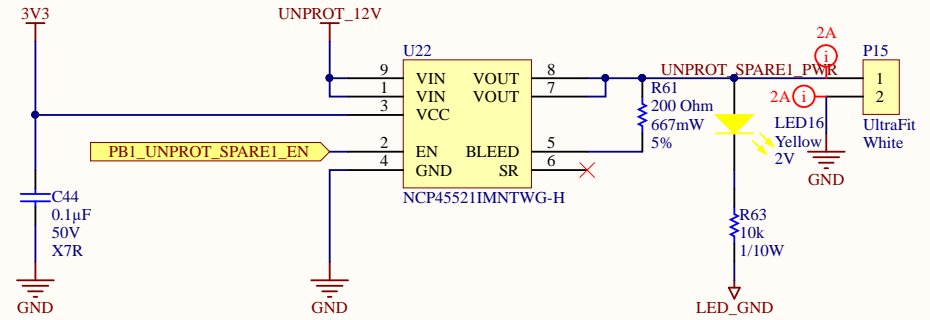
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N2L 3E9

Website: www.uwmidsun.com

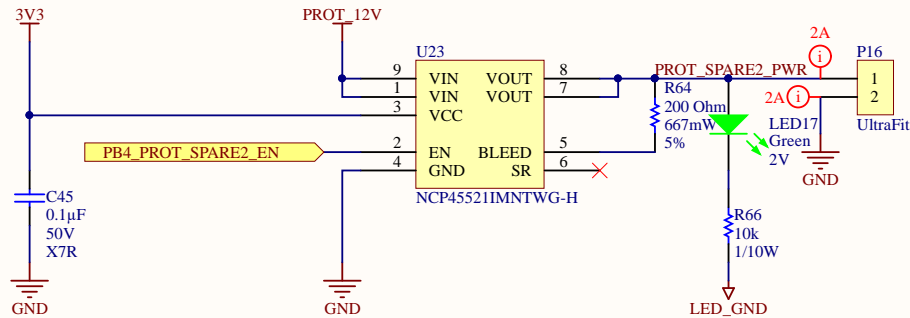
Protected Spare 1



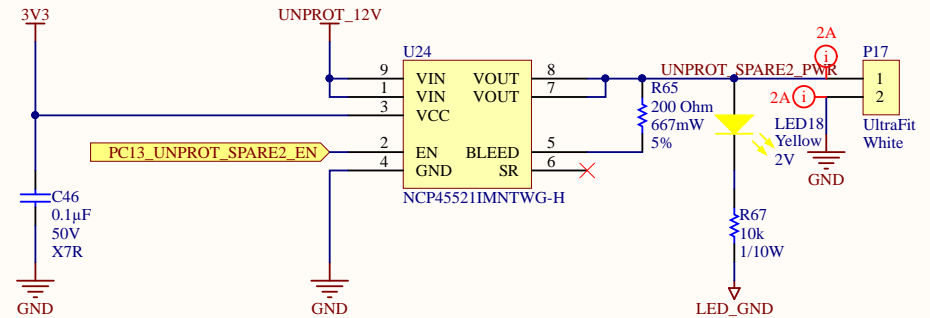
Unprotected Spare 1



Protected Spare 2



Unprotected Spare 2



Project: **PowerDistribution.PrjPcb**

Title: **Spare Outputs**

Project Author: **Taiping Li**

Size: **Letter**

Date: **2018-06-21**

Revision: **3.0**

Sheet **10** of **10**



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