
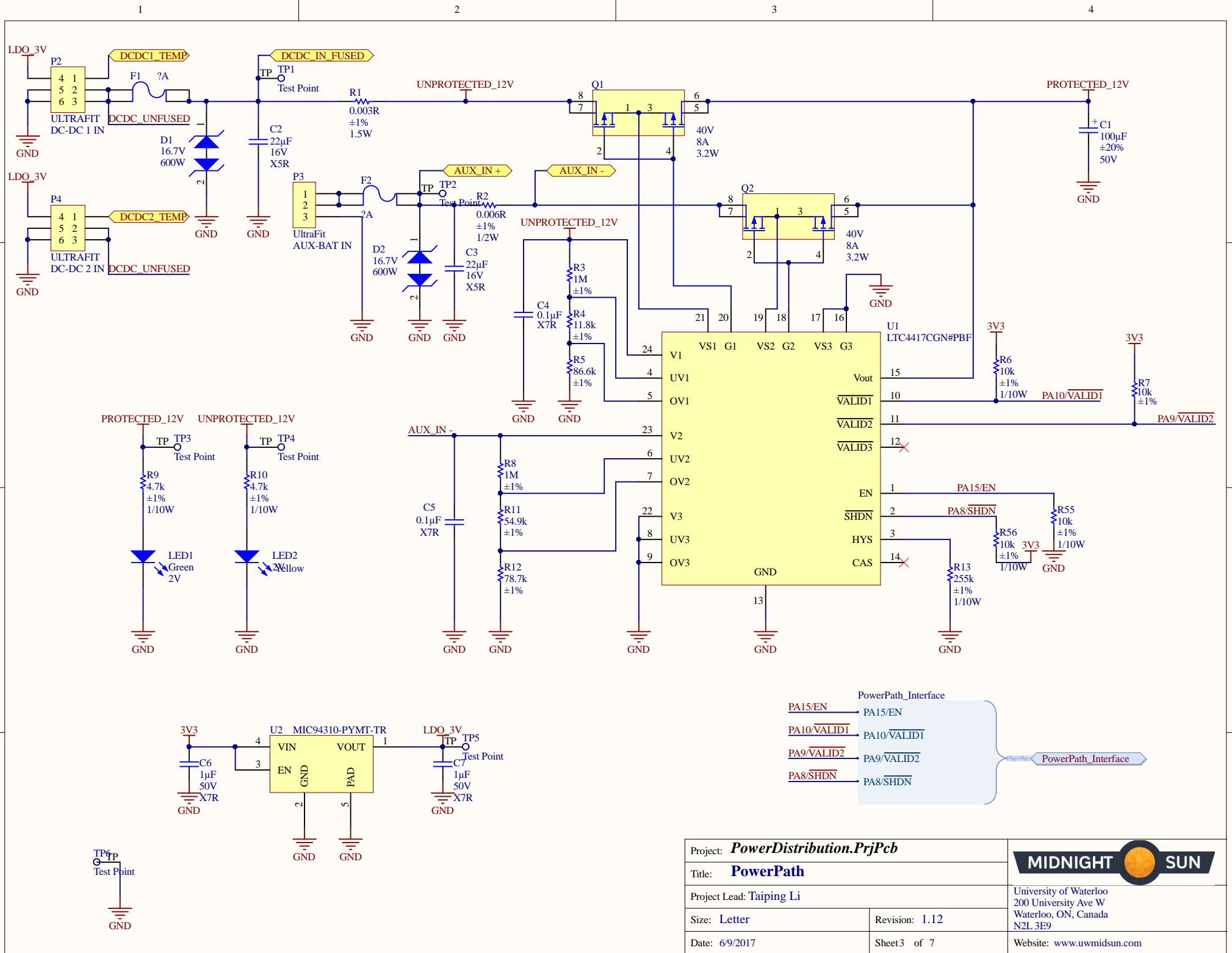
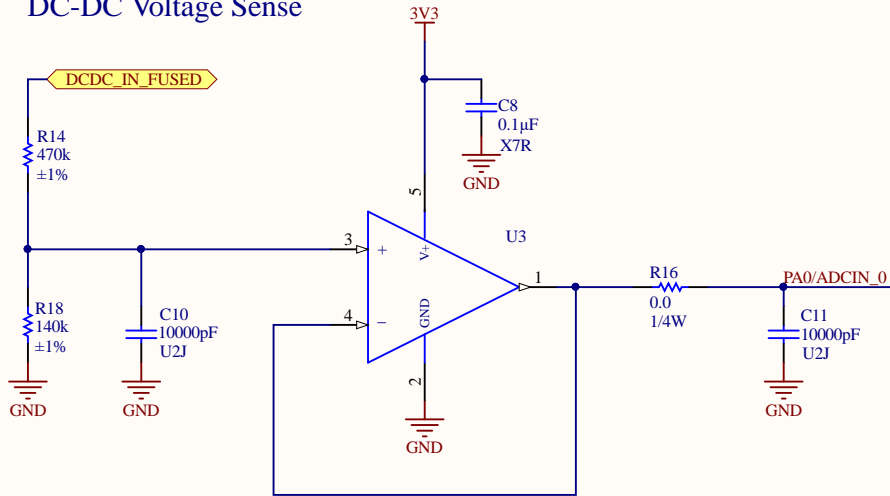


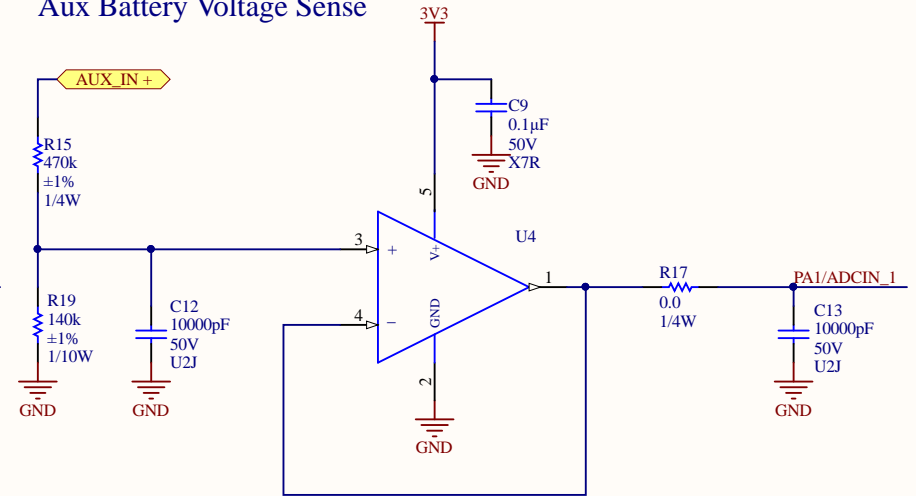
Project: <b>PowerDistribution.PrjPcb</b>		
Title: <b>Controller Board Interface</b>		
Project Lead: <b>Taiping Li</b>		<div>University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3E9  Website: <a href="http://www.uwmidsun.com">www.uwmidsun.com</a></div>
Size: <b>Letter</b>	Revision: <b>1.12</b>	
Date: <b>6/9/2017</b>	Sheet <b>2</b> of <b>7</b>	



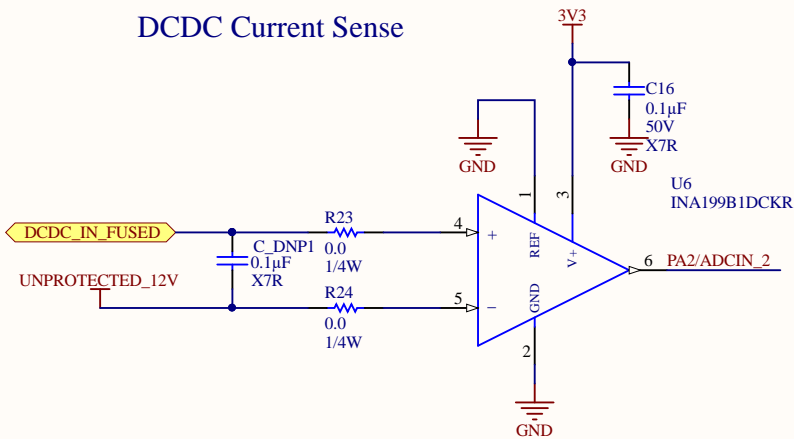
## DC-DC Voltage Sense



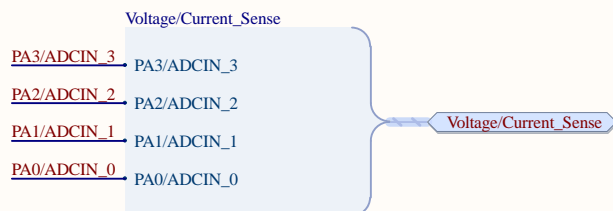
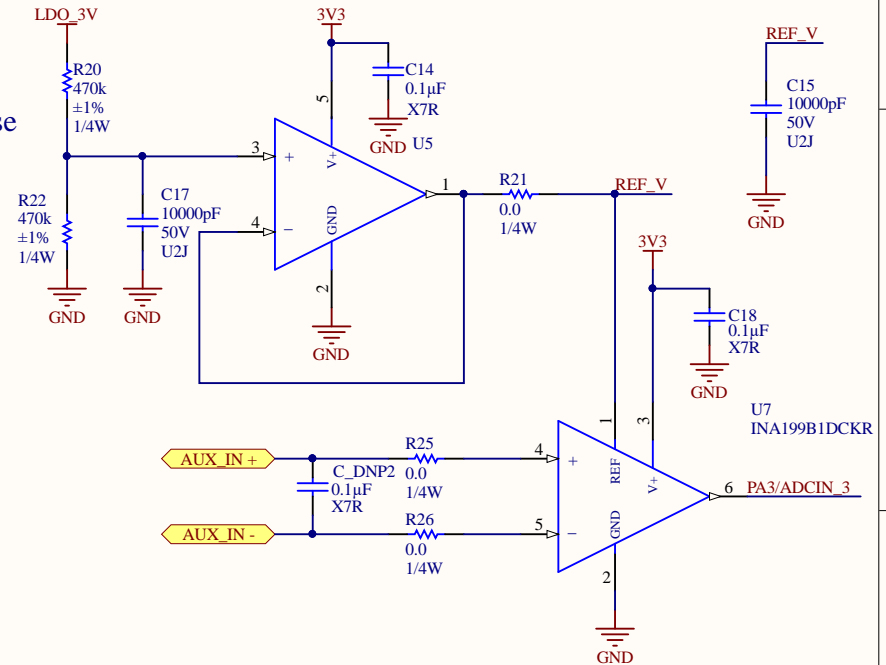
## Aux Battery Voltage Sense



## DCDC Current Sense



## Aux Current Sense



Project: **PowerDistribution.PrjPcb**

Title: **Voltage & Current Sense**

Project Lead: Taiping Li

Size: Letter

Revision: 1.12

Date: 6/9/2017

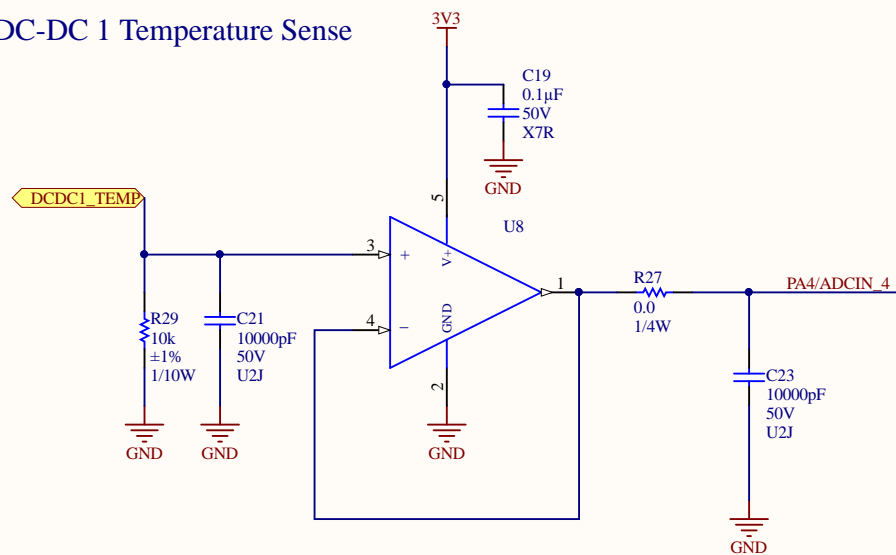
Sheet4 of 7



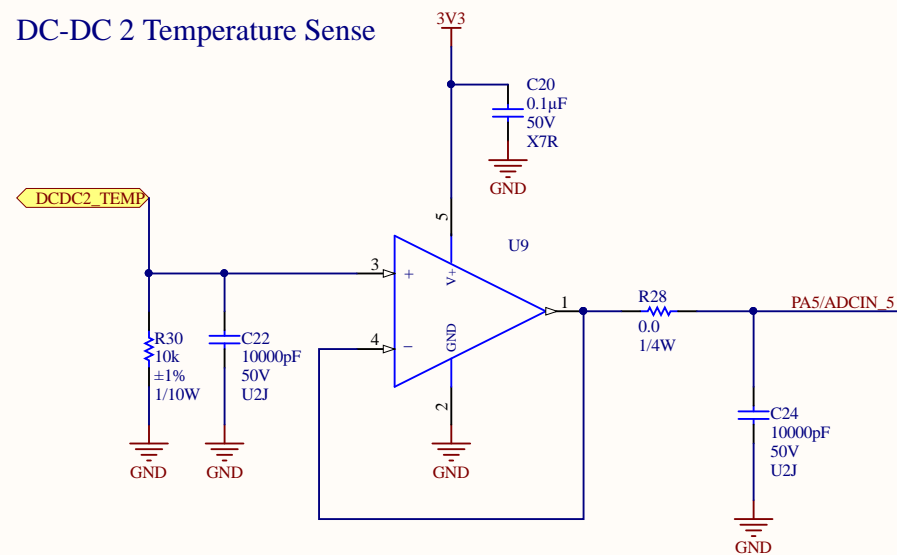
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200 University Ave W  
Waterloo, ON, Canada  
N2L 3E9

Website: [www.uwmidsun.com](http://www.uwmidsun.com)

## DC-DC 1 Temperature Sense



## DC-DC 2 Temperature Sense



Project: **PowerDistribution.PrjPcb**

Title: **Voltage/Current/Temp Sensing**

Project Lead: **Taiping Li**

Size: **Letter**

Revision: **1.12**

Date: **6/9/2017**

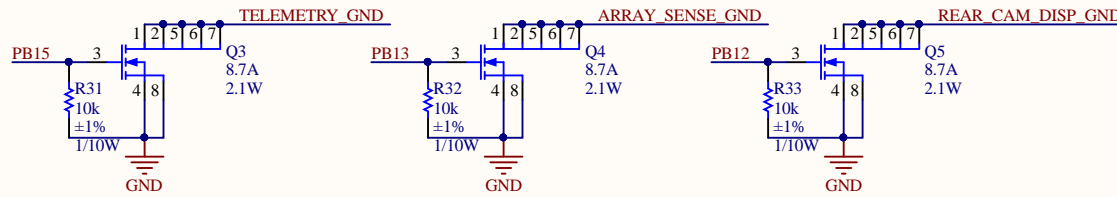
Sheet5 of 7



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N2L 3E9

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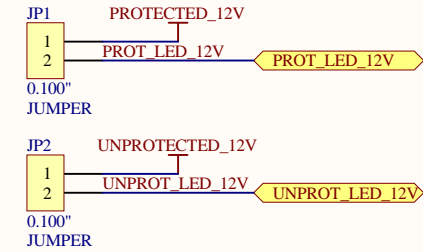
## Roof Enclosure



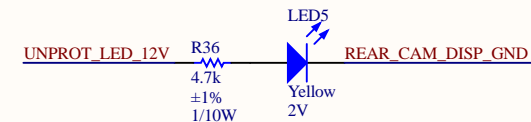
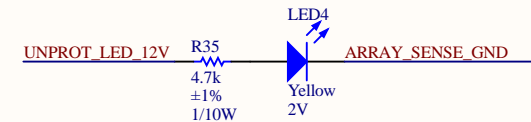
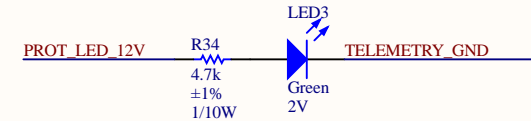
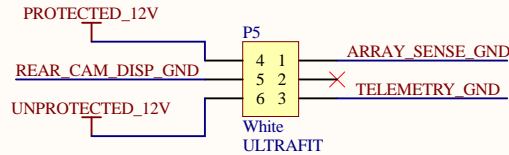
Telemetry (Protected)

Array Sense (Unprotected)

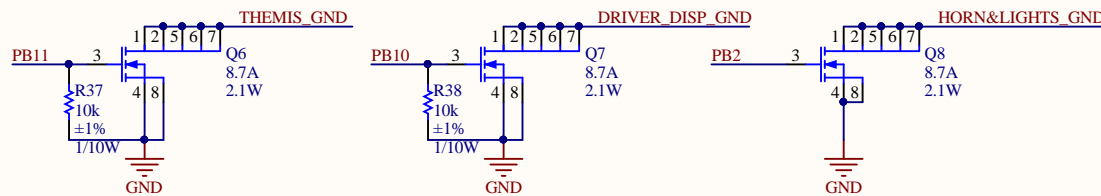
Rear Camera/Disp (Unprotected)



Remove jumpers to disable all LEDs



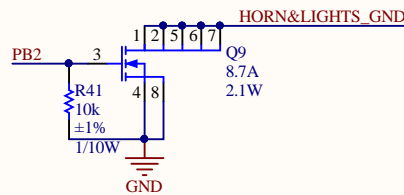
## Front Enclosure



Themis (Protected)

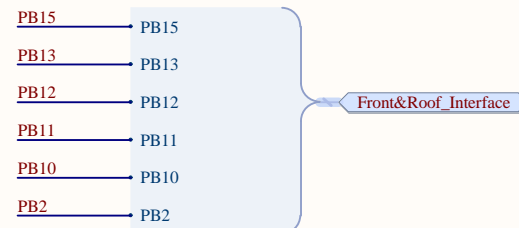
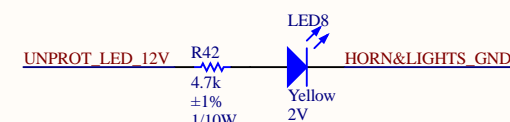
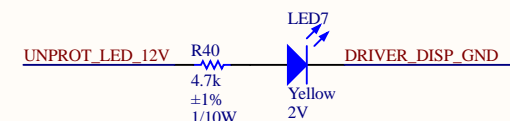
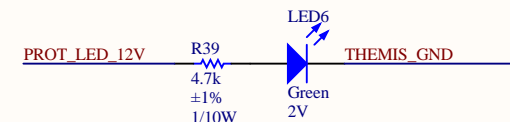
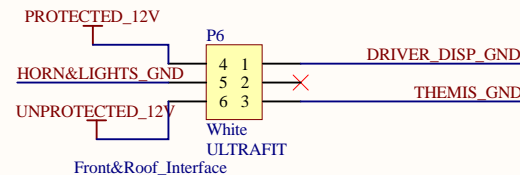
Driver Disp/Rasp Pi (Unprotected)


Horn & Lights 1 (Unprotected)

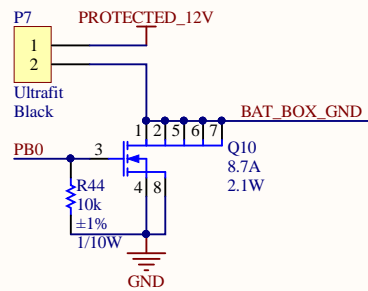


Horn & Lights 2 (Unprotected)

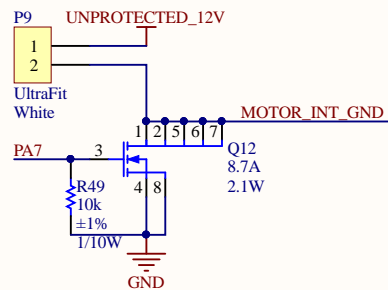
Horn & Lights 1 is in parallel with Horn & Lights 2 for load sharing



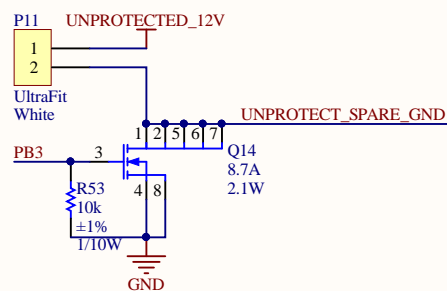
Project: <b>PowerDistribution.PrjPcb</b>		<div><div>MIDNIGHT</div><div></div><div>SUN</div></div>
Title: <b>Front and Roof Enclosure Boards</b>		
Project Lead: Taiping Li		University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3E9
Size: Letter	Revision: 1.12	
Date: 6/9/2017	Sheet6 of 7	
		Website: <a href="http://www.uwmidsun.com">www.uwmidsun.com</a>



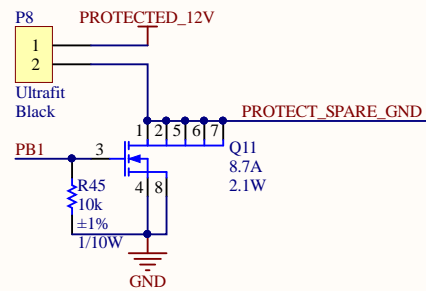
Battery Box (Protected)



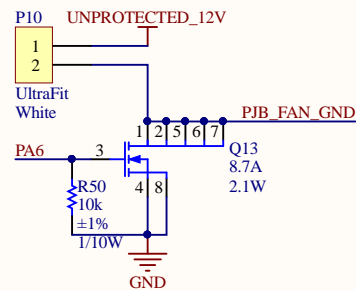
### Motor Interface (Unprotected)



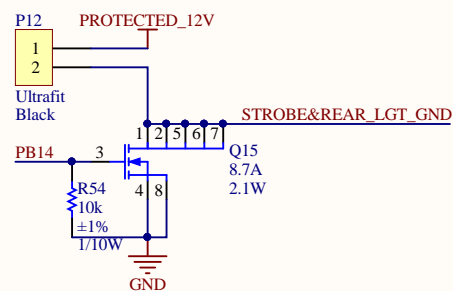
Spare (Unprotected)



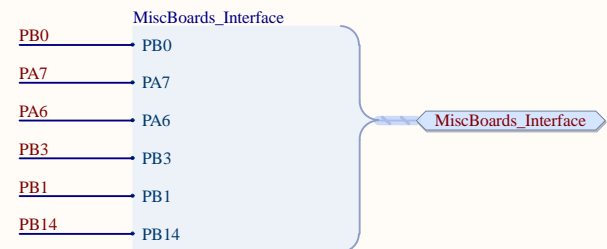
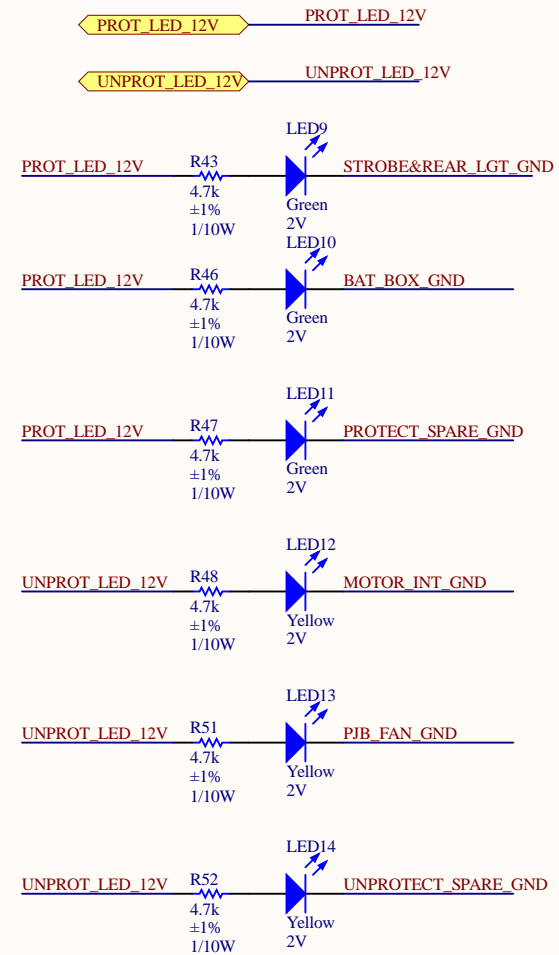
Spare (Protected)




PJB Fans (Unprotected)



Strobe&amp;RearLights (Protected)



White/Natural color for unprotected rail

Project: <b><i>PowerDistribution.PrjPcb</i></b>		
Title: <b>Misc Boards Switching</b>		
Project Lead: <b>Taiping Li</b>		University of Waterloo 200 University Ave W Waterloo, ON, Canada N2L 3E9
Size: <b>Letter</b>	Revision: <b>1.12</b>	
Date: <b>6/9/2017</b>	Sheet <b>7</b> of <b>7</b>	
		Website: <a href="http://www.uwmidsun.com">www.uwmidsun.com</a>

