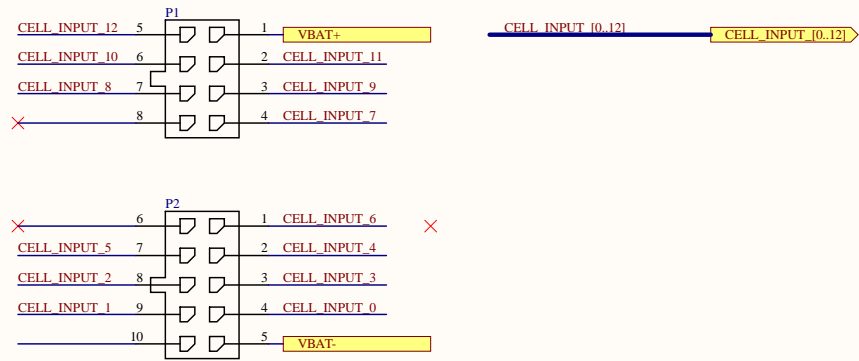
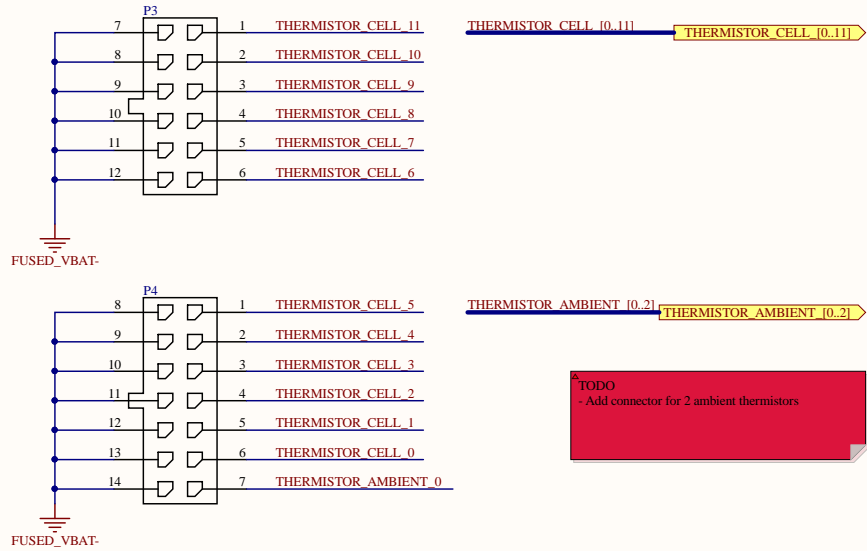


Cell Inputs

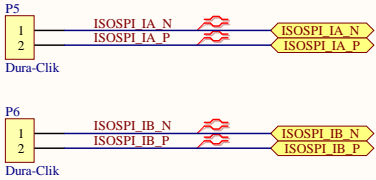


Thermistors

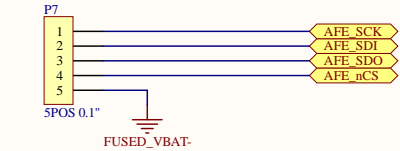


TODO
- Add connector for 2 ambient thermistors

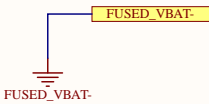
isoSPI Connectors



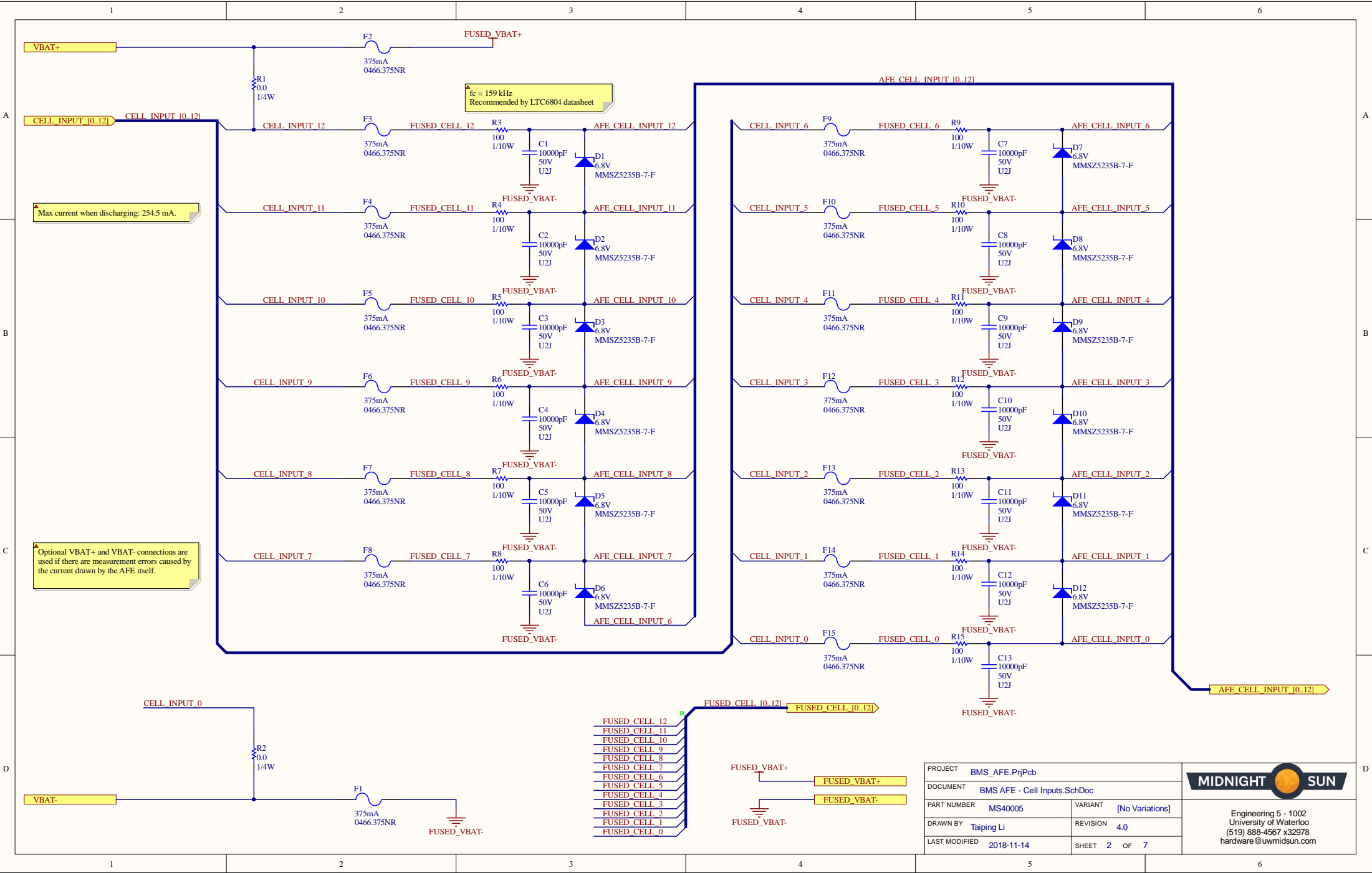
Optional 4-wire SPI



Use variant Debug - SPI and solder on a 0.1" header to talk to the LTC6804 via SPI. Otherwise, communication should be isoSPI.



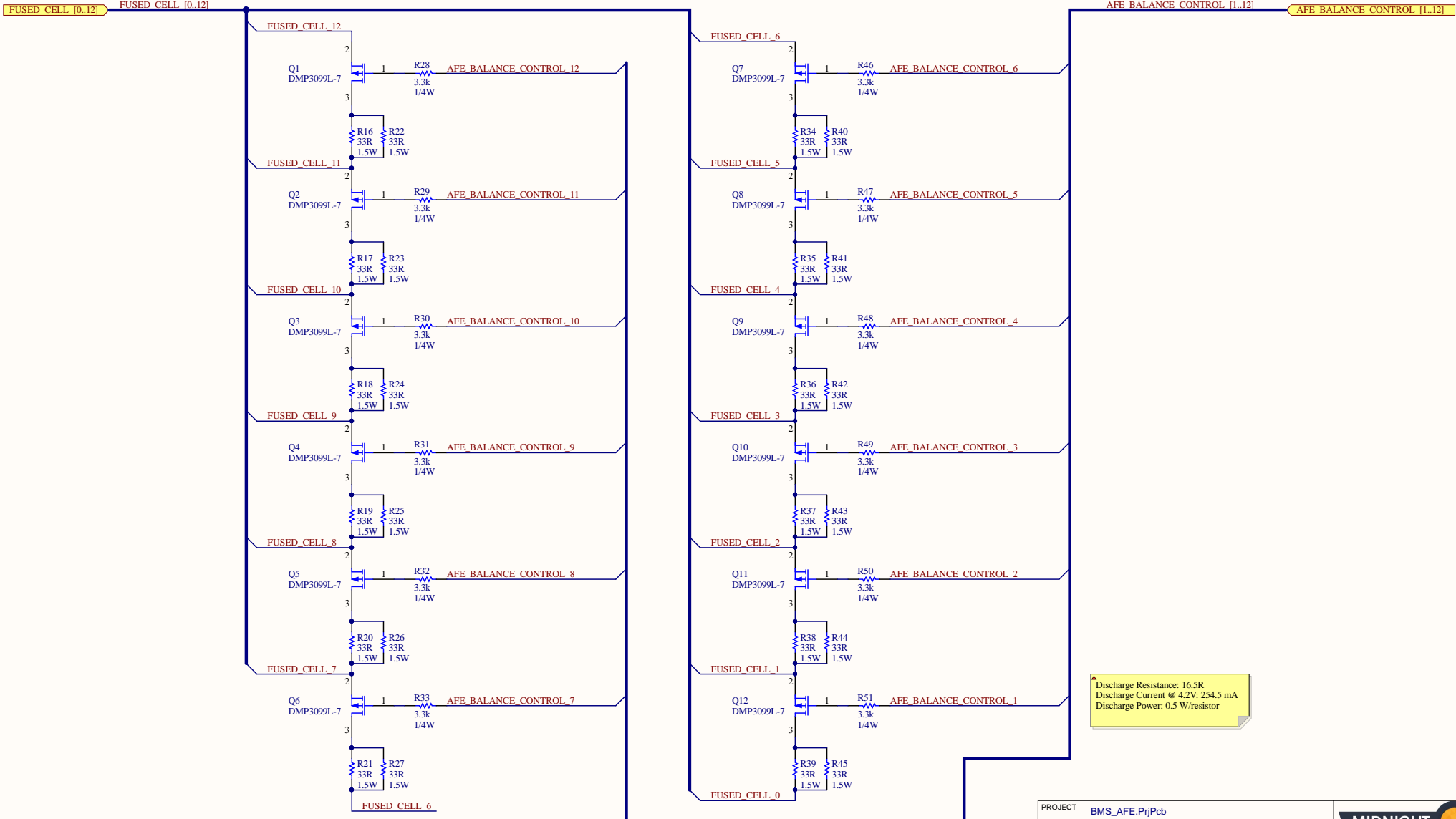
PROJECT		BMS_AFE.PrjPcb		<div><div>MIDNIGHT</div><div>SUN</div></div> <div>Engineering 5 - 1002 University of Waterloo (519) 888-4567 x32978 hardware@uwmidsun.com</div>
DOCUMENT		BMS AFE - Connectors.SchDoc		
PART NUMBER	MS40005	VARIANT	[No Variations]	
DRAWN BY	Taiping Li	REVISION	4.0	
LAST MODIFIED	2018-11-14	SHEET	1 OF 7	



PROJECT		BMS_AFE.PrjPcb	
DOCUMENT		BMS AFE - Cell Inputs.SchDoc	
PART NUMBER	MS40005	VARIANT	[No Variations]
DRAWN BY	Taiping Li	REVISION	4.0
LAST MODIFIED	2018-11-14	SHEET	2 OF 7

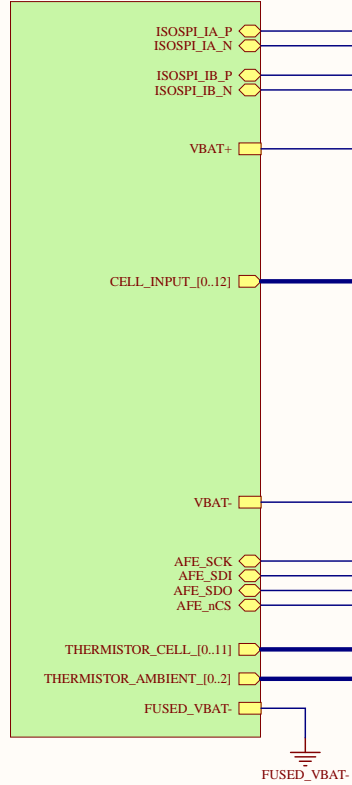


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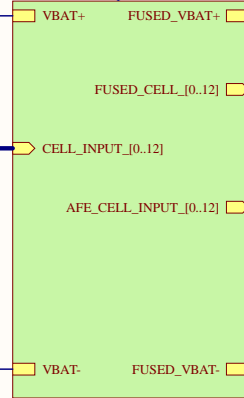


PROJECT		BMS_AFE.PrjPcb		<div><div>MIDNIGHT</div><div>SUN</div></div> <div>Engineering 5 - 1002 University of Waterloo (519) 888-4567 x32978 hardware@uwmidsun.com</div>
DOCUMENT		BMS AFE - Cell Balancing.SchDoc		
PART NUMBER	MS40005	VARIANT	[No Variations]	
DRAWN BY	Taiping Li	REVISION	4.0	
LAST MODIFIED		2018-11-14	SHEET 3 OF 7	

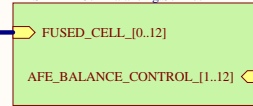
BMS AFE - Connectors.SchDoc



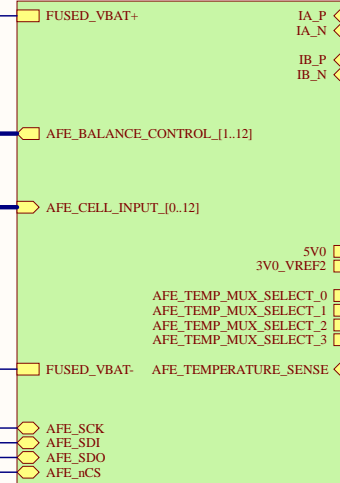
BMS AFE - Cell Inputs.SchDoc



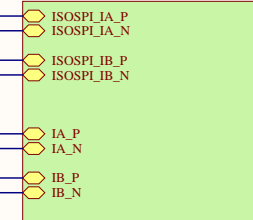
BMS AFE - Cell Balancing.SchDoc



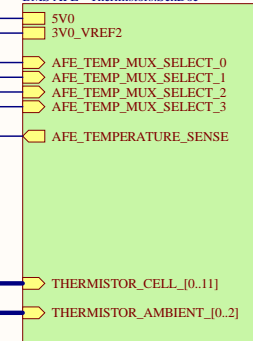
BMS AFE - AFE.SchDoc




BMS AFE - Communications.SchDoc

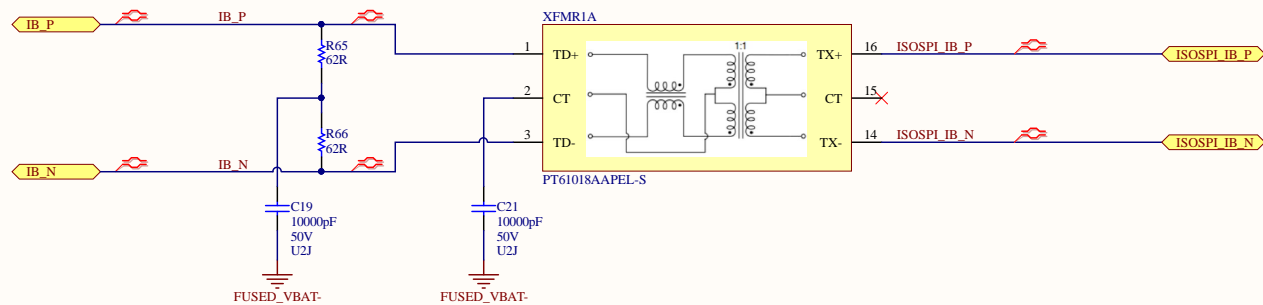


BMS AFE - Thermistors.SchDoc

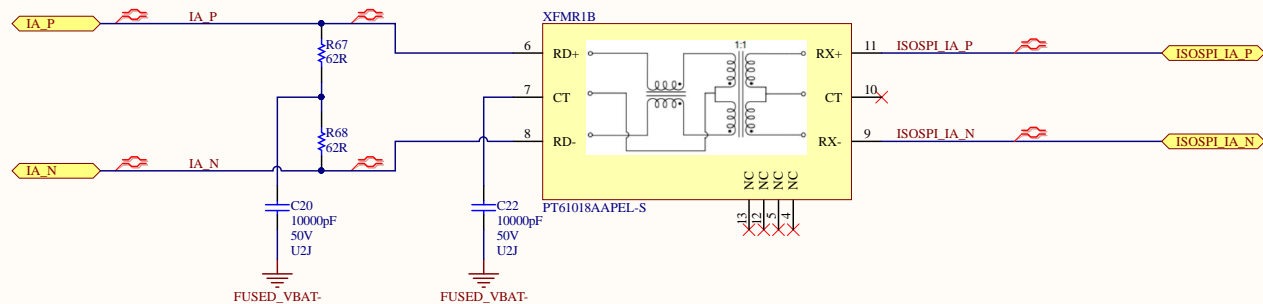


PROJECT		BMS_AFE.PrjPcb		<div><div>MIDNIGHT</div><div></div><div>SUN</div></div> <div>Engineering 5 - 1002 University of Waterloo (519) 888-4567 x32978 hardware@uwmidsun.com</div>	
DOCUMENT		BMS AFE - Top Sheet.SchDoc			
PART NUMBER	MS40005	VARIANT	[No Variations]		
DRAWN BY	Taiping Li	REVISION	4.0		
LAST MODIFIED	2018-11-14	SHEET	5 OF 7		

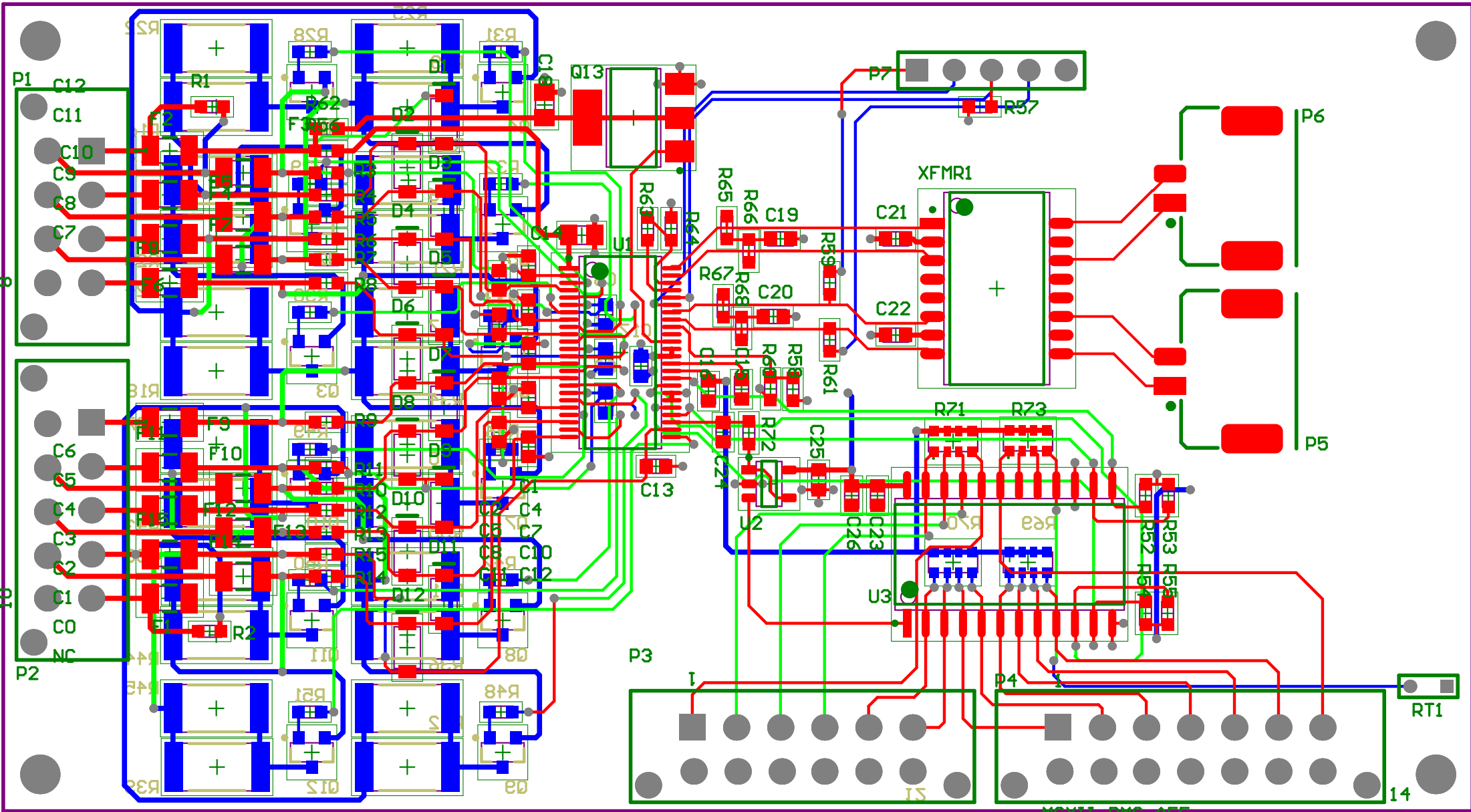
isoSPI MASTER - TO NEXT AFE



SLAVE - FROM LTC6820



PROJECT		BMS_AFE.PrjPcb		<div><div>MIDNIGHT</div><div>SUN</div></div> <div>Engineering 5 - 1002 University of Waterloo (519) 888-4567 x32978 hardware@uwmidsun.com</div>
DOCUMENT		BMS AFE - Communications.SchDoc		
PART NUMBER	MS40005	VARIANT	[No Variations]	
DRAWN BY	Taiping Li	REVISION	4.0	
LAST MODIFIED	2018-11-14	SHEET	6 OF 7	



MSX11 BMS AFE
REV 3.2